

# **NOISE ASSESSMENT REPORT**

## **Cedar Point Wind Power Project**

### **Lambton County, Ontario**

Prepared for:

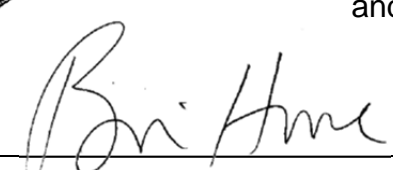
Suncor Energy Products Inc.  
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Calgary, Alberta, T2P 3E3

Prepared by



  
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and

  
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May 20, 2014

# VERSION CONTROL

Cedar Point Wind Power Project, Lambton County, Ontario

Ver.	Date	Version Description	Prepared By
1	5-Sep-12	Original DRAFT Acoustic Assessment Report supporting a Renewable Energy Application.	I. Bonsma
2	25-Jan-13	Updated DRAFT Acoustic Assessment Report supporting an application for a Renewable Energy Approval (revised turbine locations).	I. Bonsma
3	10-Apr-13	Finalized Noise Assessment Report supporting an application for a Renewable Energy Approval.	I. Bonsma
4	26-Jun-13	Updated Noise Assessment Report to include one additional receptor (ID 2865).	I. Bonsma
5	12-Feb-14	Updated Noise Assessment Report to include updated NextEra Jericho Noise Assessment and minor comments from the MOE.	I. Bonsma
6	13-May-14	Updated Noise Assessment Report to include a revised Transformer for the Cedar Point Project.	I. Bonsma
7	20-May-14	Updated Noise Assessment Report to include updated NextEra Jericho Noise Assessment.	I. Bonsma



## EXECUTIVE SUMMARY

Howe Gastmeier Chapnik Limited (“HGC Engineering”) was retained by Suncor Energy Products Inc. (“Suncor”) to assess the acoustic impact of the proposed Cedar Point Wind Power Project. The proposed wind project site is located within the Municipality of Lambton Shores, the Town of Plympton-Wyoming and the Town of Warwick, all within the County of Lambton, Ontario. This assessment considers thirty-four Siemens 2.3-113 wind turbine generators, each rated at 2.2 MW, a further nineteen Siemens 2.3-113 wind turbine generators rated at 2.1 MW and two rated at 2.0 MW. HGC Engineering has assessed the acoustic impact against the acoustic criteria of the Ontario Ministry of the Environment (“MOE”) and in accordance with the requirements of Ontario Regulation 359/09. This report comprises a summary of our assessment and is intended as supporting documentation for an application for a Renewable Energy Approval.

There are a number of residences located in the vicinity of the project. From an acoustic perspective, the area is a rural environment, with relatively low ambient sound levels. The criteria of MOE publication *Noise Guidelines for Wind Farms Interpretation for Applying MOE NPC Technical Publications to Wind Power Generation Facilities* are applicable.

The sound power data for the Siemens wind turbine generators has been obtained through Suncor. This data has been used in a computer model to predict the sound level impact at the closest residential receptors. The results of the modelling demonstrate compliance with the MOE guidelines when all fifty-five turbines are operating over their entire speed range, at all but four receptor locations. These receptor locations have entered into lease agreements with the proponent.

Details of our assessment are provided in the main body of this report. The report is structured around the report format suggested by the MOE for Renewable Energy Approval applications for wind projects, with the required summary tables included as Appendix A.

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## NOISE ASSESSMENT REPORT CHECK-LIST


Company Name: Suncor Energy Products Inc.

Company Address: 150 6<sup>th</sup> Avenue SW  
Calgary, Alberta, T2P 3E3

Location of Facility: Municipality of Lambton Shores, Town of Plympton-Wyoming, and the Town of  
Warwick, within the County of Lambton, Ontario

The attached Noise Assessment Report was prepared in accordance with the methods prescribed in the ministry guidance document "Noise Guidelines for Wind Farms Interpretation for Applying MOE NPC Publications to Wind Power Generation Facilities", October 2008.

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Title:	<u>Project Developer</u>
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Signature:	<u></u>
Date:	<u>May 20, 2014</u>

Technical Contact:	_____
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Signature:	<u></u>
Date:	<u>May 20, 2014</u>

## 1 INTRODUCTION

Howe Gastmeier Chapnik Limited (“HGC Engineering”) was retained by Suncor Energy Products Inc. (“Suncor”) to assess the acoustic impact of the proposed Cedar Point Wind Power Project. The purpose of the report is to determine the acceptability of the predicted sound levels at the nearby residential receptors resulting from the operation of fifty-five 99.5 meter hub height, Siemens 2.3-113 wind turbine generators, thirty-four rated at 2.2 MW, nineteen rated at 2.1 MW, and two rated at 2.0 MW in relation to the guidelines of the Ontario Ministry of the Environment (“MOE”) including Ontario Regulation 359/09. Ultimately, the project will include forty-six wind turbine generators; this report considers nine alternative turbine locations. Final selection of the turbine sites will be determined prior to project construction and will be based on consultation activities, potential effects assessments and detailed design/engineering work. Based on Ontario Regulation 359/09, the Project is considered a Class 4 wind facility.

This report has been updated to address a change in transformer for the Cedar Point project. This assessment includes one transformer rather than two units modelled in previous revisions.

This report is intended as supporting documentation for a Renewable Energy Approval application for the facility.

## 2 GENERAL DESCRIPTION OF WIND TURBINE INSTALLATION SITE AND SURROUNDING ENVIRONMENT

The wind power project consists of fifty-five wind turbine generators to be located within the Town of Plympton-Wyoming, the Township of Warwick and in the Municipality of Lambton Shores, within the County of Lambton, Ontario as shown in Figure 1.

The area is generally rural in nature, both acoustically and in general character, with agricultural land uses widely in evidence, including scattered dwellings near the major roadways. Road traffic on Highway 402 and the arterial roads (Lakeshore Road, Townsend Line, etc.) provide some elevated background sound for dwellings in the near vicinity. Zoning maps obtained from the Municipality of Lambton Shores, the Town of Plympton-Wyoming and the Township of Warwick (included under Appendix B), illustrate that the project site areas are generally zoned for General Agricultural use.

There are two existing wind power projects which currently operate at the proposed north and west boundary of the project: The Proof Line Wind Farm and the Ravenswood Wind Farm.

The Proof Line Wind Farm includes the operation of four existing Vestas V82 wind turbines with an 82 meter rotor diameter and an 80 meter hub height and the approval of a further two Vestas V90 wind turbines with a 90 meter rotor diameter and 80 meter hub height for installation in the future. To date, the additional two Vestas V90 machines have not been constructed. The Ravenswood Wind Farm includes the operation of six existing Vestas V82 wind turbines with an 82 meter rotor diameter and 80 meter hub height.

In addition to the above wind projects, NextEra Energy is developing the Jericho Wind Energy Centre to the east of the proposed Cedar Point Wind Power Project. The Jericho project proposes to include ninety-two General Electric 1.6-100 wind turbines and an associated project transformer station, although ninety-nine wind turbine locations have been considered.

Due to the proximity of these wind projects (within 5 km of an identified receptor), cumulative sound levels are considered in this assessment.

### **3 DESCRIPTION OF SOUND SOURCES**

Fifty-five Siemens 2.3-113 series wind turbine generators are proposed for the site, as shown in Figure 2. The wind turbines of this series have a maximum rated output of 2.2 MW, 2.1 MW or 2.0 MW, each with a corresponding sound power level. They are three bladed, upwind, horizontal axis wind turbines with a rotor diameter of 113 meters. The turbine rotor and nacelle are mounted on top of a 99.5 meter high tubular tower. The turbines are anticipated to operate continuously whenever wind conditions allow. Additional details are contained in Appendix C, with acoustic information contained in Appendix D.

Electronic topography mapping for the area suggests the area is relatively flat and that the turbines will generally be based at an elevation of between 195 and 225 meters above sea level.

Table 1 provides the Source ID and the UTM coordinates (Zone 17) of the fifty-five wind turbine generators and the proposed transformer. One step-up transformer will be installed as part of the project. Additional details regarding the step-up transformer are provided in Section 5 below.

**Table 1: Locations of Wind Turbine Generators (WTG)**

Source ID	UTM Coordinates		Source ID	UTM Coordinates	
	Easting	Northing		Easting	Northing
Suncor WTG1	423325	4779947	Suncor WTG32	413984	4773786
Suncor WTG2	423377	4779347	Suncor WTG34	413419	4773597
Suncor WTG4	422879	4778982	Suncor WTG35	413504	4771876
Suncor WTG5	423245	4778344	Suncor WTG36	412817	4771516
Suncor WTG6	422802	4778019	Suncor WTG37	412242	4771844
Suncor WTG7	421230	4778183	Suncor WTG39	410803	4771647
Suncor WTG8	422865	4777231	Suncor WTG40	412134	4769169
Suncor WTG9	422893	4775653	Suncor WTG41	410537	4769264
Suncor WTG10	419153	4777370	Suncor WTG42	413558	4766375
Suncor WTG11	422661	4775135	Suncor WTG43	410885	4768546
Suncor WTG13	419265	4776572	Suncor WTG44	409812	4769400
Suncor WTG14	419035	4775996	Suncor WTG46	413838	4765546
Suncor WTG15	420667	4774508	Suncor WTG47	408115	4768818
Suncor WTG16	421160	4774047	Suncor WTG48	408411	4768249
Suncor WTG17	419179	4775153	Suncor WTG50	410398	4765477
Suncor WTG18	420545	4773644	Suncor WTG51	408572	4766648
Suncor WTG19	418499	4774532	Suncor WTG53	408885	4765445
Suncor WTG20	420881	4773009	Suncor WTG54	407818	4765618
Suncor WTG21	416732	4776214	Suncor WTG69	412533	4768085
Suncor WTG22	416903	4775746	Suncor WTG70	413660	4767965
Suncor WTG23	416180	4775949	Suncor WTG71	414270	4770586
Suncor WTG24	416619	4775229	Suncor WTG72	414073	4766424
Suncor WTG25	417026	4774693	Suncor WTG76	413336	4768393
Suncor WTG26	421545	4770967	Suncor WTG79	411606	4765300
Suncor WTG27	416257	4774033	Suncor WTG80	412204	4765167
Suncor WTG29	420519	4770627	Suncor WTG81	413092	4768868
Suncor WTG30	414976	4774473	Suncor WTG82	421271	4777618
Suncor WTG31	414508	4773498	TS1	416857	4775052

## 4 WIND TURBINE NOISE EMISSION RATINGS

Overall sound power data for the Siemens wind turbines as determined in accordance with IEC 61400-11:2002+A1:2006 [1], are provided by Siemens in a letter for the Cedar Point Wind Project dated January 18, 2013 [2] and the documents *SWT-2.3-113, Max. Power 2221 kW Contract Acoustic Emission, Hub Height 99.5 m* [3], *SWT-2.3-113, Max. Power 2126 kW Contract Acoustic Emission, Hub Height 99.5 m* [4], and *SWT-2.3-113, Max. Power 2030 kW Contract Acoustic Emission, Hub Height 99.5 m* [5] included in Appendix D. CAN/CSA C61400-11-07 standard, referenced by the MOE, is an adoption without modification of the identically titled IEC Standard IEC 61400-11 (edition 2:2002 consolidated with amendment 1:2006). The overall A-weighted sound power levels as a function of 10 meter height wind speed are shown in Table 2.

**Table 2: 10 Meter Height Wind Speed vs Turbine Sound Power Level, Based on IEC Sound Power Determination Methodology and Wind Shear of 0.2**

Wind Speed [m/s] at 10 m Height	6	7	8	9	10
2.2-113 Wind Turbine Sound Power Level [dBA]	104.0	104.0	104.0	104.0	104.0
2.1-113 Wind Turbine Sound Power Level [dBA]	103.0	103.0	103.0	103.0	103.0
2.0-113 Wind Turbine Sound Power Level [dBA]	102.0	102.0	102.0	102.0	102.0

Sound power level data determined under IEC 61400-11:2002 is normalized to a standard “roughness length” value of 0.05 m. The roughness length concept is used to take into account the effect of friction at the ground, which results in lower wind speeds near the ground than at higher elevations. The wind shear exponent quantifies the same concept by describing the rate of change of windspeed with elevation. A roughness length of 0.05 meters is generally held to be equivalent to a wind shear value of about 0.2. Meteorological data near the proposed wind project provided by GENIVAR indicates that the average summer nighttime wind shear coefficient is approximately 0.33 (Appendix G). This means that a 10 meter height wind speed of 2.8 m/s can occur simultaneously with a 6 m/s wind speed at the hub height of 99.5 meters, indicating that maximum sound power output may occur during relatively low 10 meter level wind speeds. Consequently the maximum

sound power level for the Siemens wind turbine (corresponding to a hub height wind speed of 6 m/s) has been used in this analysis.

Wind turbine generators WTG1 through WTG 9, WTG 11 through WTG 16, WTG19, WTG20, WTG22, WTG24, WTG25 and WTG76 will operate with an overall sound power level of 103.0 dBA, and wind turbine generators WTG10 and WTG21 will operate with an overall sound power level of 102.0 dBA, while the remainder of the wind turbines will operate with an overall sound power level of 104.0 dBA. Tables 3a, 3b and 3c present the typical octave band spectrum for various 10 meter height wind speeds received from Siemens, also included in Appendix D. The spectral shape shown for the 10 meter height 6 m/s wind speed has been used in the analysis.

**Table 3a: Wind Turbine Acoustic Emissions Summary**

<b>Make and Model:</b>		Siemens SWT-2.3-113									
<b>Electrical Rating:</b>		2.2 MW									
<b>Hub Height (m):</b>		99.5m									
<b>Wind Shear Coefficient:</b>		Maximum sound power level utilized to account for average summer nighttime wind shear value of 0.33.									
		Octave Band Sound Power Level [dB]									
		Manufacturer's Emission Levels					Adjusted Emission Level				
<b>Wind Speed [m/s]</b>		6	7	8	9	10	6	7	8	9	10
<b>Frequency [Hz]</b>											
<b>63</b>		111.0	109.8	109.7	109.9	109.6	111.0	111.0	111.0	111.0	111.0
<b>125</b>		107.0	107.4	104.9	104.4	103.6	107.0	107.0	107.0	107.0	107.0
<b>250</b>		106.2	106.3	105.8	105.3	104.5	106.2	106.2	106.2	106.2	106.2
<b>500</b>		101.4	101.2	101.0	100.9	100.6	101.4	101.4	101.4	101.4	101.4
<b>1000</b>		98.8	98.7	98.0	98.0	98.3	98.8	98.8	98.8	98.8	98.8
<b>2000</b>		94.4	94.2	95.9	96.2	96.7	94.4	94.4	94.4	94.4	94.4
<b>4000</b>		83.1	86.8	89.8	91.7	91.9	83.1	83.1	83.1	83.1	83.1
<b>8000</b>		66.7	72.3	75.6	75.7	75.6	66.7	66.7	66.7	66.7	66.7
<b>Overall A-Weighted</b>		104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0



**Table 3b: Wind Turbine Acoustic Emissions Summary**

<b>Make and Model:</b>		Siemens SWT-2.3-113								
<b>Electrical Rating:</b>		2.1 MW								
<b>Hub Height (m):</b>		99.5m								
<b>Wind Shear Coefficient:</b>		Maximum sound power level utilized to account for average summer nighttime wind shear value of 0.33.								
	<b>Octave Band Sound Power Level [dB]</b>									
	<b>Manufacturer's Emission Levels</b>					<b>Adjusted Emission Level</b>				
<b>Wind Speed [m/s]</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>Frequency [Hz]</b>										
<b>63</b>	110.8	110.1	109.5	109.6	109.4	110.8	110.8	110.8	110.8	110.8
<b>125</b>	106.7	105.4	104.6	104.1	103.3	106.7	106.7	106.7	106.7	106.7
<b>250</b>	105.6	104.9	104.9	104.3	103.6	105.6	105.6	105.6	105.6	105.6
<b>500</b>	99.9	100.1	100.2	100.1	99.8	99.9	99.9	99.9	99.9	99.9
<b>1000</b>	97.4	97.7	97.0	97.0	97.3	97.4	97.4	97.4	97.4	97.4
<b>2000</b>	93.8	94.0	94.8	95.0	95.6	93.8	93.8	93.8	93.8	93.8
<b>4000</b>	83.0	86.0	88.3	90.2	90.4	83.0	83.0	83.0	83.0	83.0
<b>8000</b>	67.4	71.5	74.1	74.2	74.1	67.4	67.4	67.4	67.4	67.4
<b>Overall A-Weighted</b>	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0

**Table 3c: Wind Turbine Acoustic Emissions Summary**

<b>Make and Model:</b>		Siemens SWT-2.3-113								
<b>Electrical Rating:</b>		2.0 MW								
<b>Hub Height (m):</b>		99.5m								
<b>Wind Shear Coefficient:</b>		Maximum sound power level utilized to account for average summer nighttime wind shear value of 0.33								
	<b>Octave Band Sound Power Level [dB]</b>									
	<b>Manufacturer's Emission Levels</b>					<b>Adjusted Emission Level</b>				
<b>Wind Speed [m/s]</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>Frequency [Hz]</b>										
<b>63</b>	110.5	109.8	109.3	109.4	109.1	110.5	110.5	110.5	110.5	110.5
<b>125</b>	106.3	105.1	104.2	103.7	102.8	106.3	106.3	106.3	106.3	106.3
<b>250</b>	105.0	104.1	103.7	103.1	102.4	105.0	105.0	105.0	105.0	105.0
<b>500</b>	98.4	98.7	98.7	98.5	98.3	98.4	98.4	98.4	98.4	98.4
<b>1000</b>	96.0	96.3	96.1	96.0	96.3	96.0	96.0	96.0	96.0	96.0
<b>2000</b>	93.2	93.5	94.0	94.2	94.7	93.2	93.2	93.2	93.2	93.2
<b>4000</b>	82.8	86.0	88.3	90.2	90.4	82.8	82.8	82.8	82.8	82.8
<b>8000</b>	68.0	71.8	74.2	74.2	74.1	68.0	68.0	68.0	68.0	68.0
<b>Overall A-Weighted</b>	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0

In the Contract Acoustic Emission documents and the letter found in Appendix D, Siemens indicates that they do not expect the SWT-2.3-113 at 99.5m hub height to produce any tonal audibility above 2 dB. A tonal penalty has not been applied in this assessment. Siemens has also indicated that the sound power levels provided have an uncertainty of +/- 1.5 dBA. The sound level predictions herein are thus subject to the degree of uncertainty related to the sound power of the turbine, in addition to the uncertainty related to the fluctuations of atmospheric conditions and the accuracy and limitations inherent in the modelling methodology.

## 5 TRANSFORMER SOUND POWER ESTIMATION

The project proposes to utilize one 110 MVA transformer. The transformer (TS1) will be located approximately 300 meters southeast of WTG 24 and approximately 860 m west of the closest receptor 1478. The transformer station is proposed to include a 25 meter long, 5.5 meter high acoustic barrier west of the transformer. The proposed barrier is shown in Figure 3 and is proposed to be constructed at the following UTM coordinates.

**Table 4: Proposed Transformer Acoustic Barrier Coordinates [m]**

Point	Easting	Northing
North	416850	4775063
South	416850	4775038

Acoustic barriers can be effectively constructed out of a wide variety of materials and can be styled in many ways, provided that it is dense, and is free of gaps or cracks within or below its extent. The MOE recommends that regardless of material, the surface density of a noise barrier wall should be at least 20 kg/m<sup>2</sup>. The acoustic barrier will be absorptive with a minimum NRC of 0.7.

The transformer is proposed to be a General Electric 66/88/110 MVA transformer which will have maximum National Electrical Manufacturers Association (“NEMA”) sound level of 72 dB measured in accordance with IEEE Standard C57.12.90, “IEEE Standard Test Code for Liquid-Immersed Distribution, Power and Regulating Transformers” [6]. Using the drawings provided in Appendix E, an enclosing surface area estimate of 414 m<sup>2</sup> was determined. The NEMA sound rating and the measurement surface area were used to compute the overall sound power level of 98.6 dBA [7]. Under MOE guidelines, tonal noises such as the hum typically produced by electrical transformers,

are penalized 5 dB to account for the increased potential for annoyance that such sounds tend to have [8]. Thus, the 98.6 dBA sound power level becomes 103.6 dBA.

A 115 kV overhead and/or underground transmission line will be installed between the Project's transformer substation (near Fuller Road and Cedar Point Line) and a substation to be built by NextEra as part of the Jericho Wind Energy Centre (located near Jericho Road and Thomson Line). The transmission line will connect to the NextEra substation via a circuit breaker directly within the substation. The connection of Suncor's transmission line to the Jericho substation will not include any noise sources. The sound emissions from the Jericho transformer are considered in the cumulative assessment.

## 6 POINT OF RECEPTION SUMMARY

As shown in Figure 2, there are a number of residences in the vicinity of the project, generally sited along the major roadways. A table of UTM co-ordinates for 984 receptors, including vacant lots, located near the proposed wind turbine generators was received from Suncor. Based on information received from Suncor and their consultants, 294 non-participating receptors, 180 vacant lots and 83 participating receptors are located within 1500 meters of a proposed wind turbine or transformer and sound level predictions are provided for these locations herein. The existing receptors and vacant lots, together with their coordinates are listed in Tables A3 and A4. Where vacant lots were identified, the assumed future location of the dwelling was selected to be consistent with the typical building pattern in the area as per Section 1(4) of Ontario Regulation 359/09.

A concordance table identifying the common receptors between the Suncor Cedar Point Wind Energy Project and the NextEra Jericho Wind Project and the Proofline Wind Project is attached as Table 5. There are no common receptors between the Ravenswood Wind Farm and the Suncor Cedar Point project within 1500 m of a Suncor sound source.

For the purposes of this report, each of the 984 receptors was represented by a discrete sound prediction location at the dwelling coordinate, with an assumed height of 4.5 meters above the local grade, to represent existing or potential future second-story windows. Where houses were identified to have a third storey, the height was increased to 7.5 meters above the local grade. Receptor heights utilized in this assessment are included in Tables A5 and A6.

A number of the receptors identified have agreements with the wind project developer. These receptors are identified as participating receptors by the MOE. According to the MOE publication *Noise Guidelines for Wind Farms Interpretation for Applying MOE NPC Publications to Wind Power Generation Facilities (“Interpretation”)* [9], a participating receptor “means a property that is associated with the Wind Farm by means of a legal agreement with the property owner for the installation and operation of wind turbines or related equipment located on that property.” According to Ontario Regulation 195/12, Section 1 (4) a “noise receptor does not include a location on a parcel of land if any part of the renewable energy generation facility will be located on that parcel of land once the facility is installed, constructed or expanded in accordance with the renewable energy approval.” [10]

Table A3 includes non-participating receptors while Table A4 includes the details of the participating receptors.

## 7 ASSESSMENT CRITERIA

The MOE publication *Noise Guidelines for Wind Farms Interpretation for Applying MOE NPC Publication to Wind Power Generation Facilities* provides sound level criteria for wind power projects. Because wind turbines generate more sound as the wind speeds increase, and because increasing wind speeds tend to cause greater background sound levels, wind turbine generators have been identified by the MOE as a unique case in comparison to other stationary noise sources. The sound level criteria for wind turbines are provided as a function of 10 meter height wind speed. The criteria are presented in A-weighted decibels in Table 5.

**Table 5: Wind Turbine Noise Criteria [dBA]**

Wind Speed (m/s) at 10 m Height	4	5	6	7	8	9	10
Wind Turbine Sound Level Limits Class 3 Area [dBA]	40.0	40.0	40.0	43.0	45.0	49.0	51.0

It should be noted that the MOE guidelines, including *Interpretation* do not require or imply that a noise source should be inaudible at a point of reception, and inaudibility should not be expected. In fact, even when the sound levels from a source are less than the numeric guideline limits, spectral and temporal characteristics of a sound regularly result in audibility at points of reception. To be

clear, wind turbines will be audible at many residences even when sound levels are below MOE noise criteria guidelines.

In the case of this assessment, the sound power output of the Siemens wind turbines is assumed to be constant at the maximum value of 104.0 dBA, 103.0 dBA or 102.0 dBA over the full range of 10 meter height wind speeds due to the average summer nighttime wind shear exponent, which means that strong hub height winds and the maximum sound power level can occur at the same time as low 10 meter height winds and low background sound. Thus, the assessment of the Siemens wind turbines is based on the minimum criteria of 40 dBA and the maximum wind turbine sound power level.

## 8 IMPACT ASSESSMENT

An acoustic model of the site was created on a computer using Cadna/A (version 4.4.145), a commercial acoustic modeling system. Cadna/A uses the computational procedures of ISO 9613-2, *Acoustics – Attenuation of sound during propagation outdoors – Part 2: General method of calculation* [11], which accounts for the reduction in sound level with distance due to geometrical spreading, air absorption, ground attenuation and acoustical shielding by intervening structures (or by topography and foliage where applicable). This is the standard that is specified by *Interpretation* to be used in the assessment of wind power project noise.

Topographical data for the site and surrounding area were provided by Suncor. Ground attenuation was assumed to be spectral for all sources, with the ground factor (G) assumed to be 0.7 globally. The temperature and relative humidity were assumed to be 10° C and 70%, respectively. Acoustical shielding from foliage was not considered in this model. For each receptor the predictions include the sound emissions of known wind turbines and their associated transformer stations within a 5 km radius as stipulated in the 2008 MOE *Interpretation*.

Details for the existing Proof Line Wind Farm were obtained from the *Proof Line Wind Farm Environmental Noise Impact Report*, dated November 2006, prepared by M.K. Ince and Associates Ltd. [12], from the *Note to File* dated December 15, 2009, prepared by M.K. Ince and Associates Ltd. [13] and the *Amended Certificate of Approval Number 5583-87SKQ2*, dated August 30, 2010, issued by the MOE [14].

Details for the existing Ravenswood Wind Farm were obtained from the *Ravenswood Wind Farm Environmental Noise Impact Report*, dated November 2006 prepared by M.K. Ince and Associates Ltd. [15], from the *Note to File* dated June 13, 2007, prepared by M.K. Ince and Associates Ltd. [16] and the *Certificate of Approval Number 6831-76XRY8*, dated October 25, 2007, issued by the MOE [17].

Details for the proposed NextEra Energy Canada Jericho Wind Energy Centre were obtained from the *Jericho Wind Energy Centre – Revised Noise Assessment Report*, dated February 2014, prepared by AECOM [18].

The wind turbine locations for these three wind projects, as well as their sound power levels, were obtained from the above reports and are summarized in Appendix A. All wind turbine sound power level data provided in the reports for the adjacent wind energy projects has been adjusted for the average summer nighttime wind shear provided by GENIVAR Inc.

All the Suncor Cedar Point wind turbine generators were modeled as point sources at a height of 99.5 meters above grade, while the Ravenswood, Proof Line and Jericho wind turbine generators were modeled as point sources at a height of 80 meters above grade. Figure 2 presents the acoustic model, with the source and receptor locations shown. Figure 4 shows the noise contours of the area surrounding the facility, as produced by Cadna/A, based on the octave band sound power levels of each wind turbine and a 10 m height wind speed of 6 m/s. Additional sound level contours for the areas surrounding the Proof Line and Ravenswood wind projects for 10 m height wind speeds ranging from 7 to 10 m/s are shown in figures 5 through 8. Note that since the sound emissions from the Siemens 2.3-113 wind turbines are unchanged at higher wind speeds, sound level contours for 7 to 10 m/s wind speeds have not been reproduced for areas outside the influence of the Proof Line and Ravenswood wind projects. The required summary tables are contained in Appendix A of this report.

Tables A5 through A10 list the sound pressure levels calculated at each of the identified receptor locations. In general, sound levels are predicted to be at or below the 40.0 dBA minimum criterion at all but four participating receptor locations. At these participating receptors, sound levels of up to 45.1 dBA are predicted. The owners of these properties have entered into lease agreements with the proponent and include a wind turbine or related infrastructure on the properties. These receptors are

considered herein to be part of the project (i.e. participating receptors) and not sensitive receptors for the purposes of sound level impact. Details of the calculations are provided in Appendix F.

In accordance with the 2008 MOE *Interpretation*, sound level predictions for receptors within 1500 meters of the sound sources are presented in Tables A5 through A10. Tables A5 and A6 show the sound level predictions for the cumulative assessment scenario (all existing wind projects and all proposed wind turbine projects within 5 km, including their associated transformers). Tables A7 and A8 show the sound level predictions solely for the Cedar Point Wind Power Project and tables A9 and A10 show the sound level predictions solely for the transformer station related to the Cedar Point Wind Power Project.

When conducting an acoustic audit of a conventional stationary industrial sound source, the MOE guidelines direct that periods of high wind be excluded. Typically, the noise output of industrial sound sources is independent of wind speed. However, this is not the case for wind plants and there is an intrinsic relationship between wind speed (and therefore ambient noise) and increased sound power levels associated with the wind turbine generators. Complicating matters, there is a large degree of variability related to environmental factors within the wind plant area including, among others, local ground level wind speeds, wind speeds affecting the wind turbine generator blades, the associated wind shear, and the sound power of the wind turbine generators, all of which affect the measured sound levels. Thus, it is not realistic to expect that in practice a single repeatable sound level can or will be measured for a given wind speed at a given setback distance; a simple comparison of single numbers is not sufficient or possible.

## 9 CONCLUSIONS

The analysis, performed in accordance with the methods prescribed by the Ontario Ministry of the Environment in publication *Interpretation for Applying MOE NPC Publications to Wind Power Generation Facilities*, October 2008, indicates that the operation of the proposed wind project will comply with the requirements of MOE publication *Noise Guidelines for Wind Farms, Interpretation for Applying MOE NPC Publications to Wind Power Generation Facilities* for all identified non-participating receptor locations.



## REFERENCES

1. CAN/CSA-C61400-11-07, *Wind Turbine Generator Systems – Part 11: Acoustic noise measurement techniques*, Edition 2.1, 2006-11.
2. Siemens Wind Power A/S, Letter for Cedar Point Wind Project, dated January 18, 2013.
3. Siemens Wind Power A/S, *SWT-2.3-113, Max. Power 2221 kW Contract Acoustic Emission, Hub Height 99.5 m, Document ID: E W EN OEN DES TLS-10-E-CA00068-794-1*, 2013.01.25.
4. Siemens Wind Power A/S, *SWT-2.3-113, Max. Power 2126 kW Contract Acoustic Emission, Hub Height 99.5 m, Document ID: E W EN OEN DES TLS-10-E-CA00068-795-1*, 2013.01.25.
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6. Institute of Electrical and Electronics Engineers (IEEE), Standard C57-12-90-2006, *IEEE Standard Test Code for Liquid-Immersed Distribution, Power, and Regulation Transformers*.
7. Crocker, Malcolm, J., *Sound Power Level Predictions for Industrial Machinery*, In *Encyclopedia of Acoustics* (Vol. 2, pp. 1049 - 1057), John Wiley & Sons, Inc., 1997.
8. Ontario Ministry of the Environment Publication NPC-104, *Sound Level Adjustments*, August, 1978.
9. Ontario Ministry of the Environment Publication, *Noise Guidelines for Wind Farms, Interpretation for Applying MOE NPC Publications to Wind Power Generation Facilities*, October 2008.
10. Ontario Regulation 195/12 amending Ontario Regulation 359/09, filed June 29, 2012.
11. International Organization for Standardization, *Acoustics – Attenuation of Sound during Propagation Outdoors – Part 2: General Method of Calculation*, ISO-9613-2, Switzerland, 1996.
12. M.K. Ince and Associates Ltd., *Proof Line Wind Farm Environmental Noise Impact Report*, November 10, 2006.
13. M.K. Ince and Associates Ltd., *Proof Line Wind Farm Note to File*, December 15, 2009.
14. Ontario Ministry of the Environment, *Amended Certificate of Approval Air, Number 5583-87SKQ2*, dated August 30, 2010.
15. M.K. Ince and Associates Ltd., *Ravenswood Wind Farm Environmental Noise Impact Report*, November 10, 2006.
16. M.K. Ince and Associated Ltd., *Ravenswood Wind Farm Note to File*, dated June 13, 2007.
17. Ontario Ministry of the Environment, *Amended Certificate of Approval Air, Number 6831-76XRY8*, dated October 25, 2007.
18. AECOM, *Jericho Wind Energy Centre – Revised Noise Assessment Report*, dated February 2014.





**Table 5: Receptor Concordance Table**  
**Suncor Cedar Point Wind Power Project**

POR		POR ID		Distance to nearest source (m)		Nearest source ID		Level of farm (dBA)			Level (dBA)
UTM coordinates		Suncor Cedar Point	Other Receptor ID	Suncor Cedar Point	All Projects	Suncor Cedar Point	All Projects	Suncor Cedar Point	Jericho	Proffline and Ravenswood	Total
Easting	Northing										
415247	4776802	883	O	1263	1053	Suncor WTG23	Proof Line WTG 1, Vestas V90	32.4	-	35.8	37.4
415263	4777094	884	N	1468	1028	Suncor WTG23	Proof Line WTG 1, Vestas V90	31.2	-	36.4	37.5
415464	4777064	890	M	1320	816	Suncor WTG23	Proof Line WTG 1, Vestas V90	32.0	-	38.1	39.1
417659	4776703	939	D	1055	965	Suncor WTG21	Proof Line WTG 6, Vestas V82	35.5	-	38.1	40.0
417798	4777199	946	G	1364	842	Suncor WTG10	Proof Line WTG 6, Vestas V82	33.6	-	38.8	39.9
417913	4777393	954	F	1235	941	Suncor WTG10	Proof Line WTG 6, Vestas V82	33.1	-	38.2	39.4
417914	4777712	955	E	1321	1015	Suncor WTG10	Proof Line WTG 6, Vestas V82	32.1	-	38.5	39.4
417791	4776312	1485	U	1048	1209	Suncor WTG22	Proof Line WTG 5, Vestas V90	36.5	-	35.4	39.0
424063	4778817	10	JER5270	867	867	Suncor WTG2	Suncor WTG2	36.2	33.7	25.3	38.3
421300	4772130	209	JER5133	974	974	Suncor WTG20	Suncor WTG20	34.5	31.9	-	36.4
421456	4772092	210	JER5132	1082	893	Suncor WTG20	Jericho WTG 38	34.2	33.0	-	36.7
421852	4773699	218	JER3340	775	775	Suncor WTG16	Suncor WTG16	36.2	34.5	-	38.4
422237	4771756	227	JER5143	1049	585	Suncor WTG26	Jericho WTG 38	32.5	37.0	-	38.3
422262	4769896	228	JER4038	1289	1289	Suncor WTG26	Suncor WTG26	29.8	31.7	-	33.9
422347	4769878	229	JER4040	1352	1352	Suncor WTG26	Suncor WTG26	29.3	32.2	-	34.0
422403	4771847	230	JER5130	1229	497	Suncor WTG26	Jericho WTG 38	31.3	38.3	-	39.1
422680	4771821	232	JER5129	1420	631	Suncor WTG26	Jericho WTG 38	30.0	37.2	-	38.0
422821	4771217	235	JER5160	1300	547	Suncor WTG26	Jericho WTG 88	29.8	38.2	-	38.8
423966	4775180	239	JER5189	1173	852	Suncor WTG9	Jericho WTG 39	32.1	36.3	-	37.7
424062	4780140	240	JER5275	762	762	Suncor WTG1	Suncor WTG1	35.2	34.9	26.9	38.4
424110	4776999	241	JER5265	1266	838	Suncor WTG8	Jericho WTG 18	32.5	34.2	19.9	36.5
424182	4780917	243	JER5277	1294	752	Suncor WTG1	Jericho WTG 12	29.9	37.3	26.7	38.3
421193	4772149	278	JER5134	915	915	Suncor WTG20	Suncor WTG20	34.8	31.1	-	36.3
424147	4777441	279	JER5267	1276	554	Suncor WTG5	Jericho WTG 18	33.2	37.0	20.7	38.6
422334	4769991	342	JER4039	1255	1255	Suncor WTG26	Suncor WTG26	30.0	32.3	-	34.3



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VIBRATION

POR		POR ID		Distance to nearest source (m)		Nearest source ID		Level of farm (dBA)			Level (dBA)
UTM coordinates		Suncor Cedar Point	Other Receptor ID	Suncor Cedar Point	All Projects	Suncor Cedar Point	All Projects	Suncor Cedar Point	Jericho	Proofline and Ravenswood	Total
Easting	Northing										
422796	4770407	343	JER5159	1371	780	Suncor WTG26	Jericho WTG 89	29.0	36.7	-	37.4
424062	4780093	350	JER5274	751	751	Suncor WTG1	Suncor WTG1	35.4	34.8	26.9	38.4
420999	4772330	1016	JER5135	689	689	Suncor WTG20	Suncor WTG20	36.2	30.1	-	37.2
421176	4772070	1023	JER5141	984	984	Suncor WTG20	Suncor WTG20	34.6	30.9	-	36.1
421743	4774479	1031	JER3335	726	726	Suncor WTG16	Suncor WTG16	37.0	31.7	-	38.1
421813	4772093	1035	JER5175	1157	558	Suncor WTG26	Jericho WTG 38	33.2	36.9	-	38.4
421937	4771800	1038	JER5142	921	656	Suncor WTG26	Jericho WTG 38	33.8	35.7	-	37.9
421972	4774374	1041	JER3336	875	875	Suncor WTG16	Suncor WTG16	36.0	33.5	-	37.9
421993	4775108	1045	JER5585	669	669	Suncor WTG11	Suncor WTG11	37.1	30.5	-	38.0
422360	4771855	1056	JER5131	1205	483	Suncor WTG26	Jericho WTG 38	31.5	38.5	-	39.3
423578	4774876	1079	JER5584	953	911	Suncor WTG11	Jericho WTG 35	34.0	36.1	-	38.2
423879	4775438	1084	JER5191	1009	876	Suncor WTG9	Jericho WTG 39	33.1	35.3	-	37.4
423981	4781047	1088	JER5278	1281	530	Suncor WTG1	Jericho WTG 12	29.9	39.0	27.4	39.8
424015	4777016	1092	JER5266	1170	893	Suncor WTG8	Jericho WTG 18	33.1	33.8	20.1	36.6
424051	4779275	1094	JER5271	678	678	Suncor WTG2	Suncor WTG2	37.4	34.3	26.7	39.4
424164	4775333	1097	JER5190	1311	614	Suncor WTG9	Jericho WTG 39	31.0	37.7	-	38.5
424253	4775884	1099	JER5193	1379	624	Suncor WTG9	Jericho WTG 39	30.8	36.7	-	37.7
424295	4779258	1100	JER5272	922	922	Suncor WTG2	Suncor WTG2	35.2	35.6	26.0	38.7
424738	4780138	1105	JER3203	1426	806	Suncor WTG1	Jericho WTG 14	30.2	37.9	24.8	38.8
421088	4771950	1598	JER2695	1079	1079	Suncor WTG20	Suncor WTG20	34.6	30.1	-	35.9
421504	4771955	1599	JER2693	989	896	Suncor WTG26	Jericho WTG 38	34.3	33.0	-	36.7
421829	4772980	1605	JER2649	948	807	Suncor WTG20	Jericho WTG 38	34.5	35.5	-	38.0
421861	4774126	1607	JER2698	705	705	Suncor WTG16	Suncor WTG16	36.8	33.5	-	38.5
421862	4774687	1609	JER2702	916	916	Suncor WTG11	Suncor WTG11	36.3	31.6	-	37.6
421897	4771858	1610	JER2829	958	635	Suncor WTG26	Jericho WTG 38	33.6	35.9	-	37.9
421911	4772681	1612	JER3159	1081	531	Suncor WTG20	Jericho WTG 38	33.3	37.8	-	39.1
421937	4773192	1615	JER2650	1072	792	Suncor WTG20	Jericho WTG 37	34.3	36.0	-	38.2
421937	4773617	1616	JER2652	888	811	Suncor WTG16	Jericho WTG 37	35.3	35.4	-	38.4
421947	4773933	1617	JER2699	795	795	Suncor WTG16	Suncor WTG16	35.9	34.7	-	38.4
421983	4774746	1621	JER2701	782	782	Suncor WTG11	Suncor WTG11	36.5	32.0	-	37.8
422099	4780505	1622	JER6562	1347	920	Suncor WTG1	Ravenswood WTG4	31.2	30.0	37.9	39.3
422038	4771951	1626	JER2647	1101	474	Suncor WTG26	Jericho WTG 38	32.7	38.3	-	39.4
422342	4780410	1634	JER2460	1087	1087	Suncor WTG1	Suncor WTG1	32.7	31.0	35.7	38.3
422633	4771620	1636	JER2648	1269	783	Suncor WTG26	Jericho WTG 38	30.5	36.3	-	37.3



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VIBRATION

POR		POR ID		Distance to nearest source (m)		Nearest source ID		Level of farm (dBA)			Level (dBA)
UTM coordinates		Suncor Cedar Point	Other Receptor ID	Suncor Cedar Point	All Projects	Suncor Cedar Point	All Projects	Suncor Cedar Point	Jericho	Proofline and Ravenswood	Total
Easting	Northing										
422939	4770485	1643	JER2830	1475	631	Suncor WTG26	Jericho WTG 89	28.3	38.4	-	38.8
423654	4774970	1646	JER2687	1007	1007	Suncor WTG11	Suncor WTG11	33.8	35.8	-	37.9
423961	4775889	1650	JER6563	1094	877	Suncor WTG9	Jericho WTG 39	32.6	34.5	-	36.7
423994	4780194	1651	JER3204	713	713	Suncor WTG1	Suncor WTG1	35.6	34.9	27.2	38.6
423970	4775618	1652	JER2685	1078	789	Suncor WTG9	Jericho WTG 39	32.6	35.5	-	37.3
423993	4776386	1654	JER2520	1322	1159	Suncor WTG9	Jericho WTG 39	32.4	33.1	-	35.8
424003	4776729	1657	JER2521	1244	1115	Suncor WTG8	Jericho WTG 18	32.6	33.0	17.9	35.9
424016	4777913	1659	JER2507	883	717	Suncor WTG5	Jericho WTG 18	35.3	35.2	22.8	38.4
424020	4777479	1660	JER2509	1161	667	Suncor WTG5	Jericho WTG 18	34.1	35.6	21.9	38.0
424034	4774717	1663	JER2688	1435	734	Suncor WTG11	Jericho WTG 40	30.5	37.7	-	38.5
424048	4775086	1664	JER2686	1287	822	Suncor WTG9	Jericho WTG 39	31.3	37.0	-	38.0
424058	4780492	1665	JER2463	913	863	Suncor WTG1	Jericho WTG 12	33.2	36.0	27.1	38.2
424057	4779590	1666	JER2465	722	722	Suncor WTG2	Suncor WTG2	36.8	34.1	26.4	38.9
424078	4776201	1667	JER2528	1306	965	Suncor WTG9	Jericho WTG 39	31.8	33.9	-	36.0
424085	4776408	1668	JER2524	1411	1119	Suncor WTG9	Jericho WTG 39	31.9	33.4	-	35.7
424104	4776727	1669	JER2522	1338	1059	Suncor WTG8	Jericho WTG 18	32.1	33.4	14.8	35.8
424106	4777278	1670	JER2523	1242	661	Suncor WTG8	Jericho WTG 18	33.1	35.7	20.4	37.7
424115	4777681	1671	JER2508	1094	559	Suncor WTG5	Jericho WTG 18	34.0	37.0	22.1	38.8
424138	4778934	1672	JER2504	866	866	Suncor WTG2	Suncor WTG2	35.7	34.1	25.3	38.2
424155	4779848	1673	JER2467	836	836	Suncor WTG1	Suncor WTG1	35.4	34.8	26.4	38.4
424153	4780488	1675	JER2464	989	935	Suncor WTG1	Jericho WTG 12	32.6	36.0	26.8	38.0
424723	4778246	2446	JER5565	1481	626	Suncor WTG5	Jericho WTG 18	31.1	37.6	20.8	38.5
422830	4771255	2611	JER5160	1317	553	Suncor WTG26	Jericho WTG 88	29.7	38.1	-	38.7
422755	4771764	2861	JER3160	1449	722	Suncor WTG26	Jericho WTG 38	29.6	36.8	-	37.6
423988	4778449	2862	JER3280	750	750	Suncor WTG5	Suncor WTG5	36.6	33.5	24.9	38.5



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VIBRATION

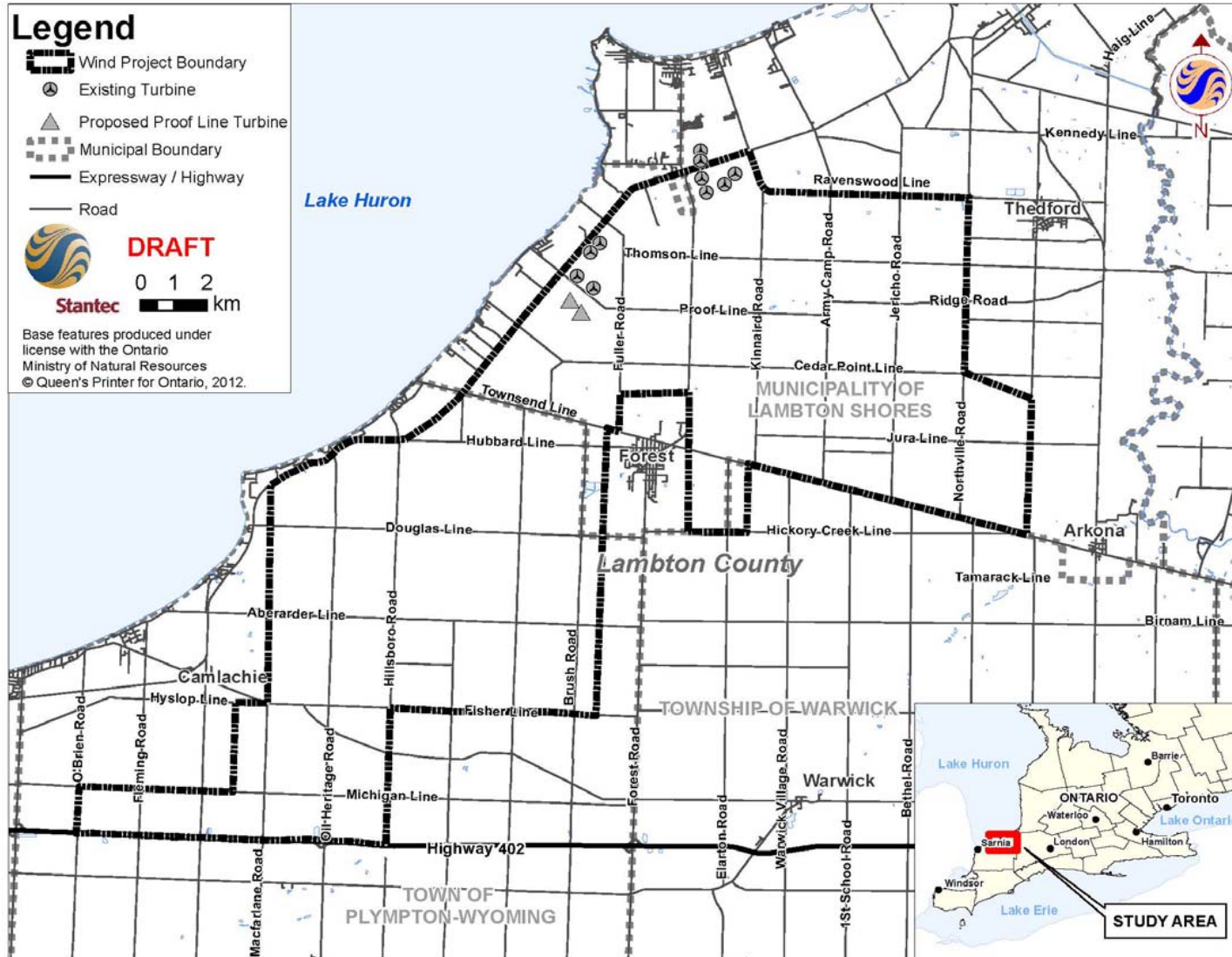
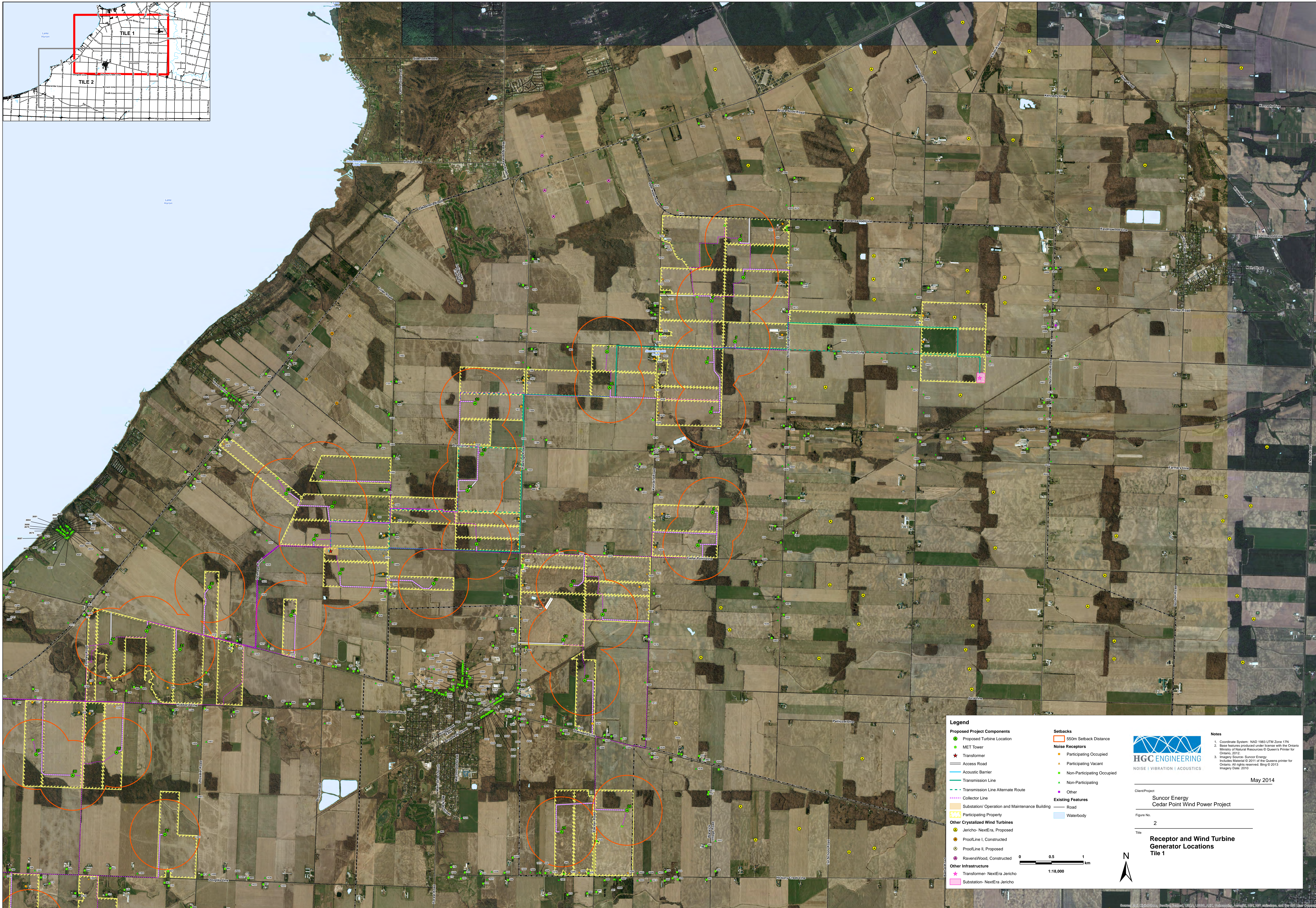
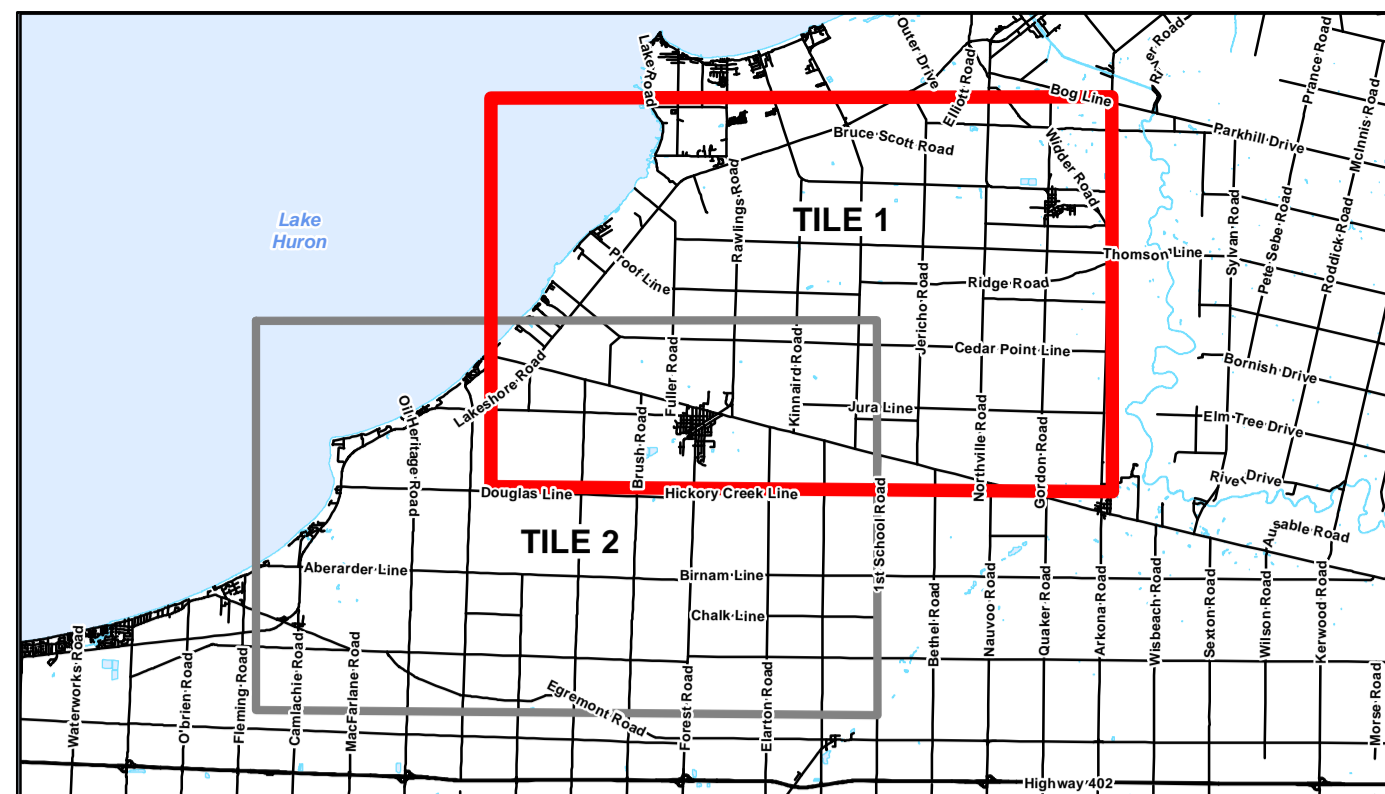


Figure 1: Cedar Point Wind Power Project Location





**Legend**

<b>Proposed Project Components</b>	<b>Setbacks</b>
● Proposed Turbine Location	○ 550m Setback Distance
★ Transformer	<b>Noise Receptors</b>
— Access Road	● Participating Occupied
— Acoustic Barrier	▲ Participating Vacant
— Transmission Line	● Non-Participating Occupied
— Transmission Line Alternate Route	● Non-Participating
— Collector Line	● Other
— Substation/ Operation and Maintenance Building	<b>Existing Features</b>
— Participating Property	— Road
<b>Other Crystallized Wind Turbines</b>	— Waterbody
● Jericho- NextEra, Proposed	
● ProofLine I, Constructed	
● ProofLine II, Proposed	
● RavensWood, Constructed	
<b>Other Infrastructure</b>	
★ Transformer- NextEra Jericho	
■ Substation- NextEra Jericho	

**Notes**

- Coordinate System: NAD 1983 UTM Zone 17N
- Base Features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.
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Client/Project: Suncor Energy Cedar Point Wind Power Project

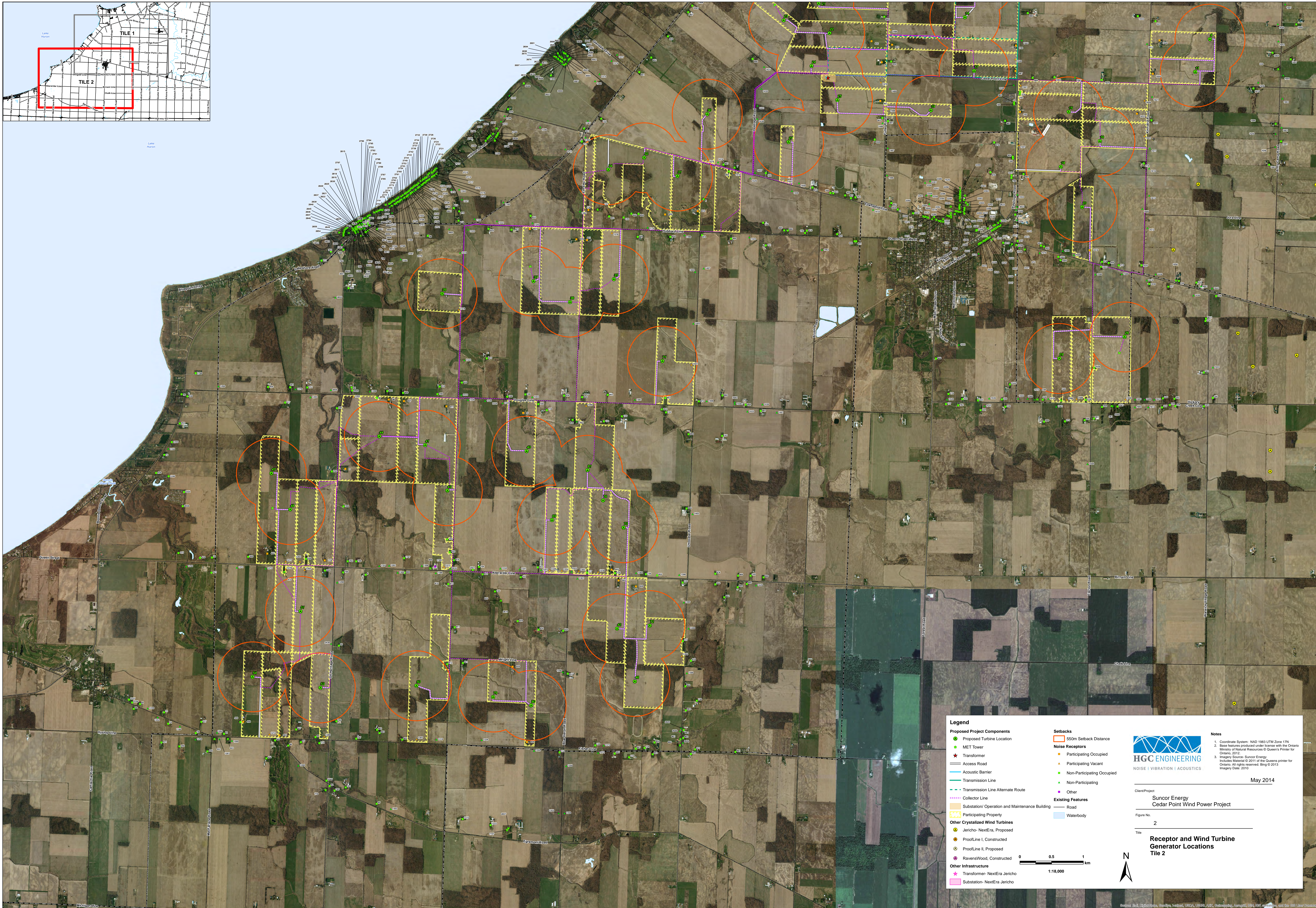
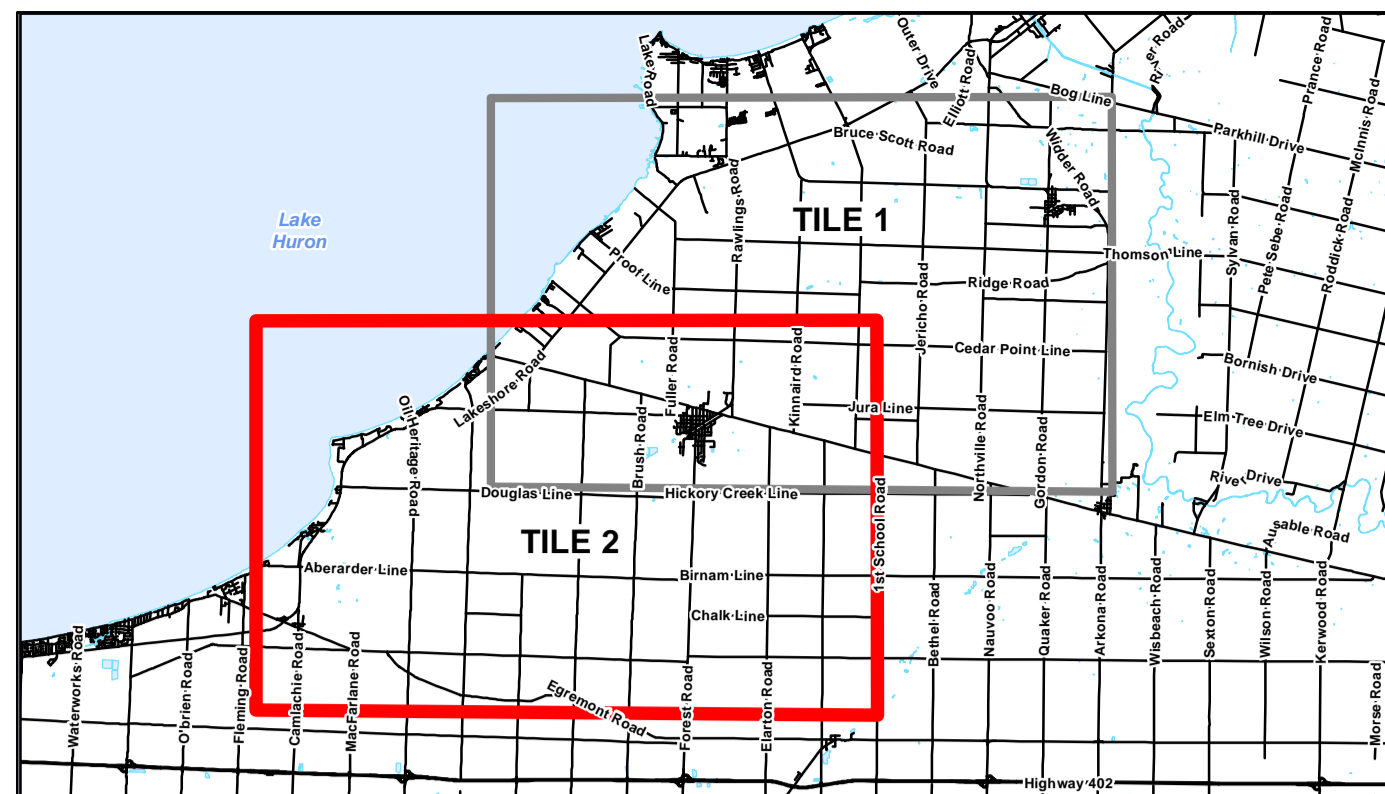
Figure No.: 2

Title: Receptor and Wind Turbine Generator Locations Tile 1

Scale: 1:18,000

North Arrow





<b>Legend</b> <b>Proposed Project Components</b> <ul style="list-style-type: none"> <li><span style="color: green;">●</span> Proposed Turbine Location</li> <li><span style="color: green;">★</span> MET Tower</li> <li><span style="color: red;">★</span> Transformer</li> <li><span style="color: grey;">—</span> Access Road</li> <li><span style="color: blue;">—</span> Acoustic Barrier</li> <li><span style="color: green;">—</span> Transmission Line</li> <li><span style="color: blue;">- - -</span> Transmission Line Alternate Route</li> <li><span style="color: purple;">- - -</span> Collector Line</li> <li><span style="color: yellow;">—</span> Substation/ Operation and Maintenance Building</li> <li><span style="color: yellow;">▭</span> Participating Property</li> </ul> <b>Other Crystallized Wind Turbines</b> <ul style="list-style-type: none"> <li><span style="color: yellow;">●</span> Jericho- NextEra, Proposed</li> <li><span style="color: yellow;">●</span> PooLine I, Constructed</li> <li><span style="color: yellow;">●</span> PooLine II, Proposed</li> <li><span style="color: purple;">●</span> RavensWood, Constructed</li> </ul> <b>Other Infrastructure</b> <ul style="list-style-type: none"> <li><span style="color: pink;">★</span> Transformer- NextEra Jericho</li> <li><span style="color: pink;">▭</span> Substation- NextEra Jericho</li> </ul>		<b>Setbacks</b> <ul style="list-style-type: none"> <li><span style="border: 1px solid red; display: inline-block; width: 10px; height: 10px;"></span> 550m Setback Distance</li> </ul> <b>Noise Receptors</b> <ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Participating Occupied</li> <li><span style="color: yellow;">●</span> Participating Vacant</li> <li><span style="color: green;">●</span> Non-Participating Occupied</li> <li><span style="color: purple;">●</span> Non-Participating</li> <li><span style="color: pink;">●</span> Other</li> </ul> <b>Existing Features</b> <ul style="list-style-type: none"> <li><span style="color: grey;">—</span> Road</li> <li><span style="color: blue;">—</span> Waterbody</li> </ul>
<p>Scale: 0 0.5 1 km 1:18,000</p>		
<p><b>Notes</b></p> <ol style="list-style-type: none"> <li>1. Coordinate System: NAD 1983 UTM Zone 17N</li> <li>2. Base Features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2012.</li> <li>3. Imagery Source: Suncor Energy. Includes Material © 2011 of the Queen's Printer for Ontario. All rights reserved. Proj 05/2013. Imagery Date: 2010.</li> </ol> <p style="text-align: right;">May 2014</p> <p>Client/Project: Suncor Energy Cedar Point Wind Power Project</p> <p>Figure No.: 2</p> <p>Title: Receptor and Wind Turbine Generator Locations Tile 2</p>		





Figure 3: Proposed Acoustic Barrier at Transformer Station  
Cedar Point Wind Power Project, Lambton County, Ontario



ACOUSTICS

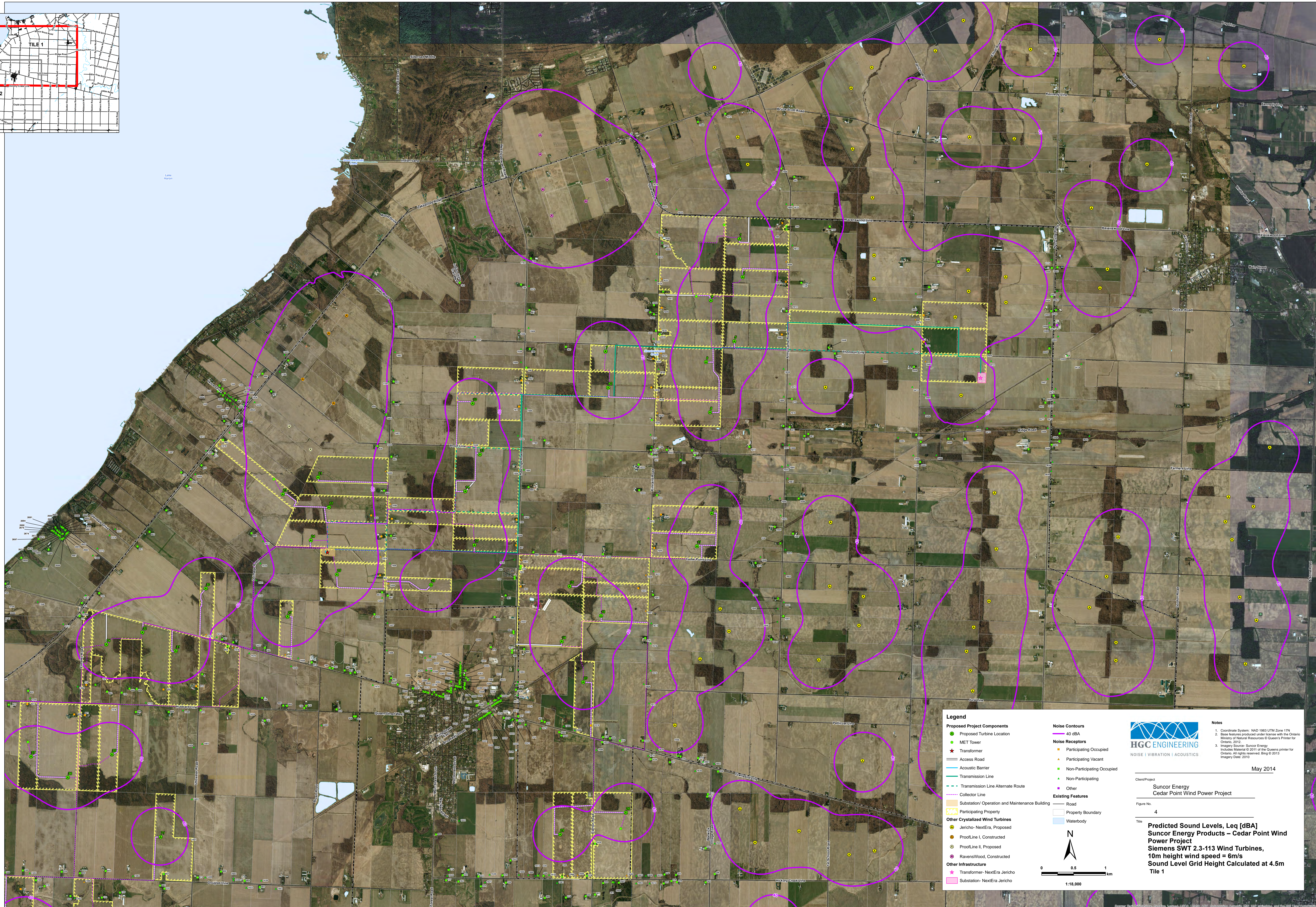
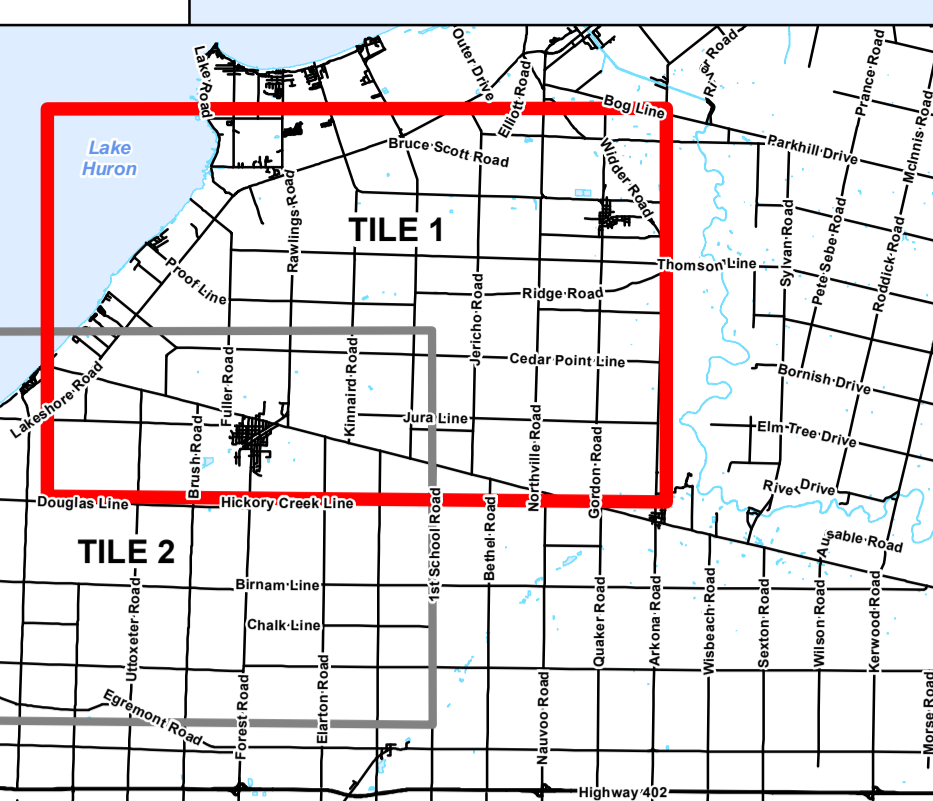


NOISE



VIBRATION





**Legend**

<ul style="list-style-type: none"> <li>Proposed Project Components</li> <li>Proposed Turbine Location</li> <li>MET Tower</li> <li>Transformer</li> <li>Access Road</li> <li>Acoustic Barrier</li> <li>Transmission Line</li> <li>Transmission Line Alternate Route</li> <li>Collector Line</li> <li>Substation/ Operation and Maintenance Building</li> <li>Participating Property</li> <li>Other Crystallized Wind Turbines</li> <li>Jericho- NextEra, Proposed</li> <li>ProofLine I, Constructed</li> <li>ProofLine II, Proposed</li> <li>RavensWood, Constructed</li> <li>Other Infrastructure</li> <li>Transformer- NextEra Jericho</li> <li>Substation- NextEra Jericho</li> </ul>	<ul style="list-style-type: none"> <li>Noise Contours</li> <li>40 dBA</li> </ul>	<ul style="list-style-type: none"> <li>Noise Receptors</li> <li>Participating Occupied</li> <li>Participating Vacant</li> <li>Non-Participating Occupied</li> <li>Non-Participating</li> <li>Other</li> </ul>	<ul style="list-style-type: none"> <li>Existing Features</li> <li>Road</li> <li>Property Boundary</li> <li>Waterbody</li> </ul>
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**Notes**

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May 2014

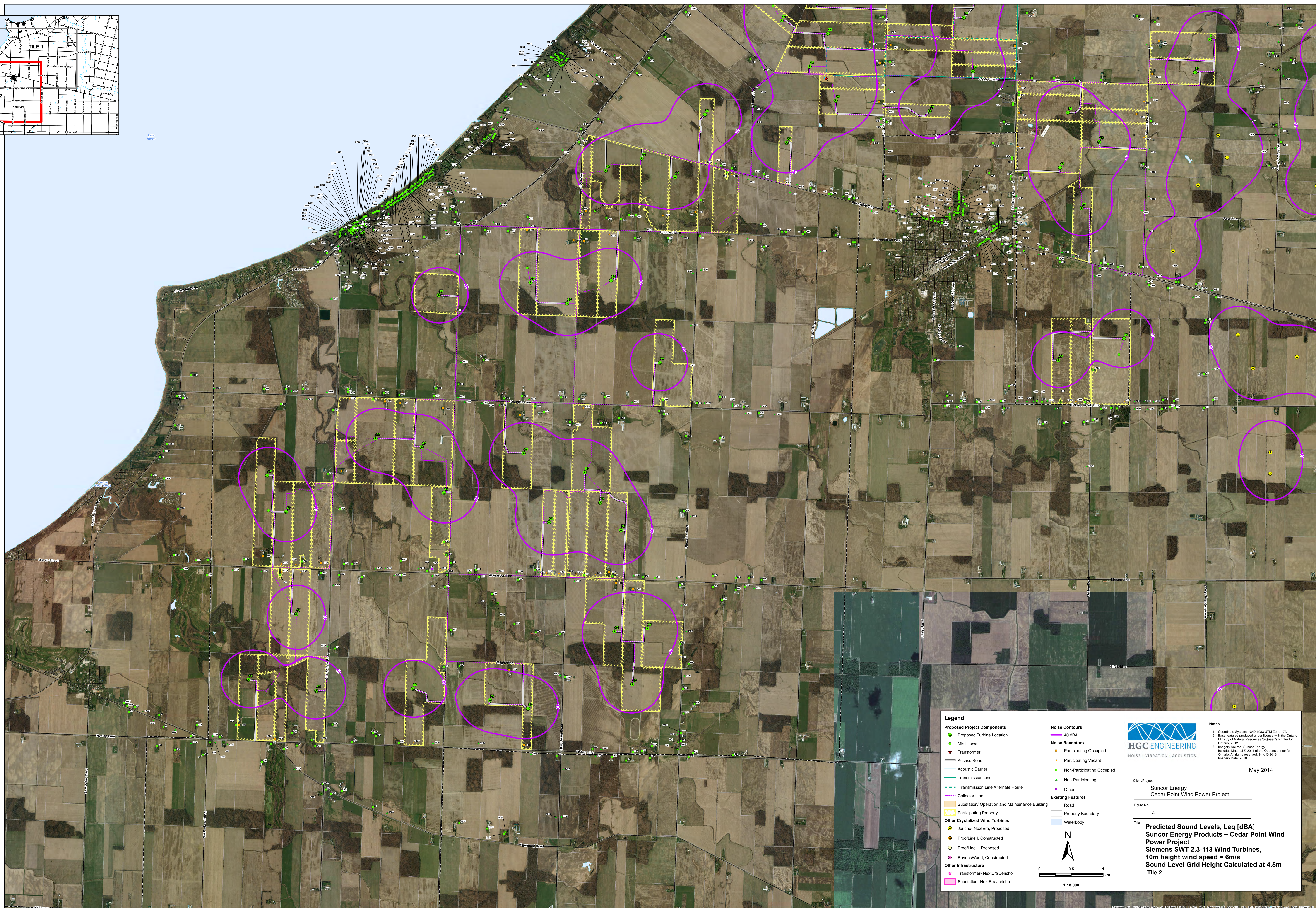
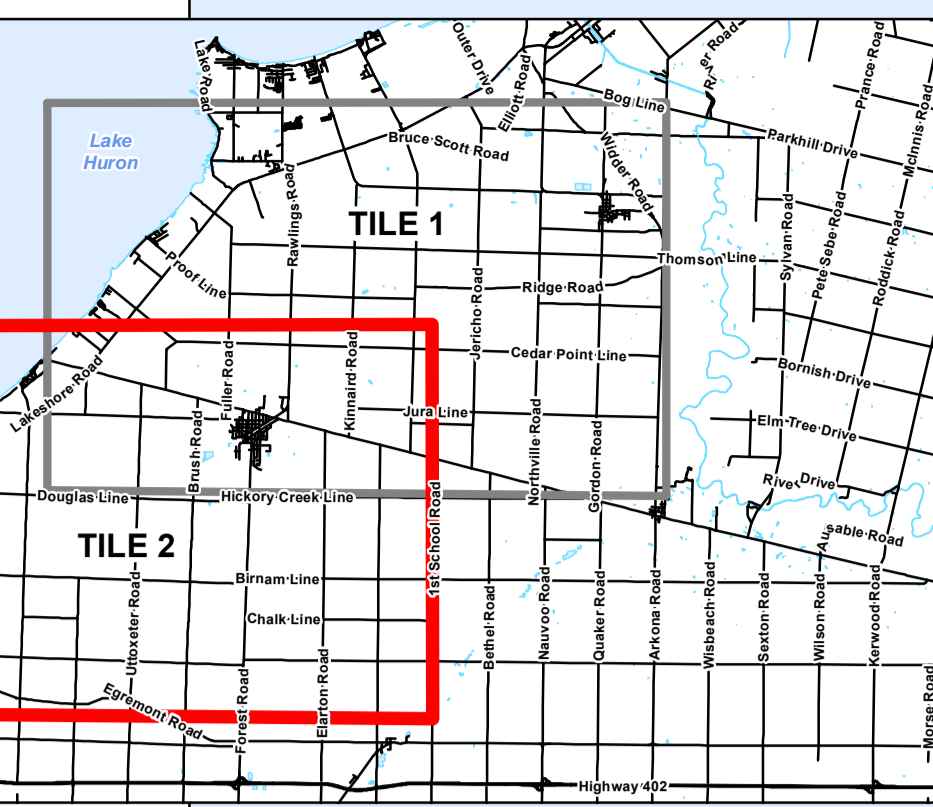
Client/Project: Suncor Energy Cedar Point Wind Power Project

Figure No.: 4

Title: Predicted Sound Levels, Leq [dBA] Suncor Energy Products - Cedar Point Wind Power Project Siemens SWT 2.3-113 Wind Turbines, 10m height wind speed = 6m/s Sound Level Grid Height Calculated at 4.5m Tile 1

Scale: 1:16,000





**Legend**

**Proposed Project Components**

- Proposed Turbine Location
- MET Tower
- Transformer
- Access Road
- Acoustic Barrier
- Transmission Line
- Transmission Line Alternate Route
- Collector Line
- Substation/ Operation and Maintenance Building
- Participating Property

**Other Crystallizing Wind Turbines**

- Jericho- NextEra, Proposed
- ProofLine I, Constructed
- ProofLine II, Proposed
- RavensWood, Constructed

**Other Infrastructure**

- Transformer- NextEra Jericho
- Substation- NextEra Jericho

**Noise Contours**

- 40 dBA

**Noise Receptors**

- Participating Occupied
- Participating Vacant
- Non-Participating Occupied
- Non-Participating
- Other

**Existing Features**

- Road
- Property Boundary
- Waterbody

**Notes**

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Client/Project: Suncor Energy Cedar Point Wind Power Project

Figure No.: 4

Tile: Predicted Sound Levels, Leq [dBA] Suncor Energy Products – Cedar Point Wind Power Project Siemens SWT 2.3-113 Wind Turbines, 10m height wind speed = 6m/s Sound Level Grid Height Calculated at 4.5m Tile 2

May 2014

Scale: 1:16,000





**Legend**

**Proposed Project Components**

- Proposed Turbine Location
- MET Tower
- Transformer
- Access Road
- Acoustic Barrier
- Transmission Line
- Transmission Line Alternate Route
- Collector Line
- Substation/ Operation and Maintenance Building
- Participating Property

**Other Crystallized Wind Turbines**

- Jericho- NextEra, Proposed
- ProoLine I, Constructed
- ProoLine II, Proposed
- RavensWood, Constructed

**Other Infrastructure**

- Transformer- NextEra Jericho
- Substation- NextEra Jericho

**Noise Contours**

- 40 dBA
- 43 dBA

**Noise Receptors**

- Participating Occupied
- Participating Vacant
- Non-Participating Occupied
- Non-Participating
- Other

**Existing Features**

- Road
- Waterbody

**Notes**

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May 2014

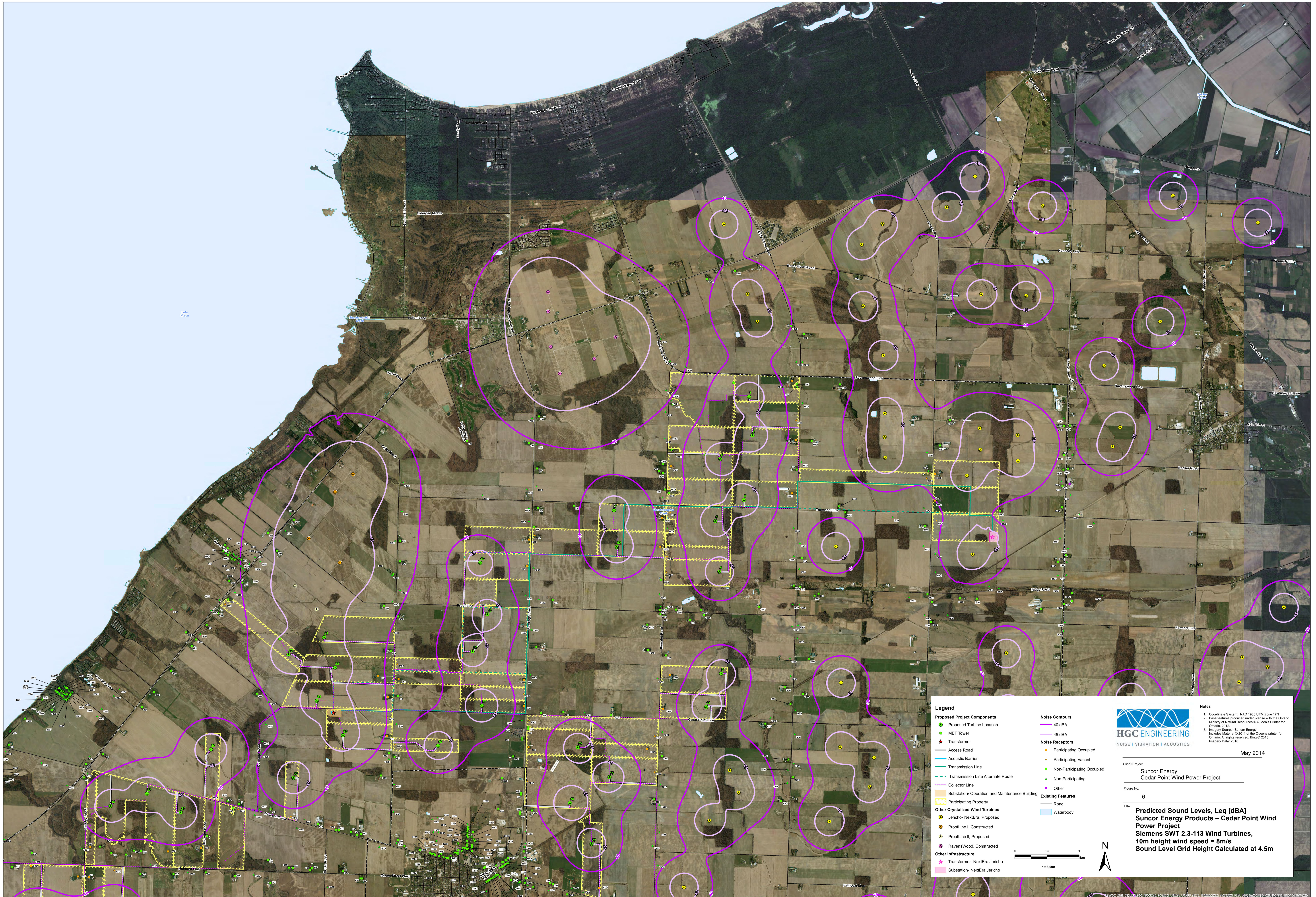
Client/Project  
Suncor Energy  
Cedar Point Wind Power Project

Figure No.  
5

Title  
**Predicted Sound Levels, Leq [dBA]**  
Suncor Energy Products - Cedar Point Wind Power Project  
Siemens SWT 2.3-113 Wind Turbines,  
10m height wind speed = 7 m/s  
Sound Level Grid Height Calculated at 4.5m

Scale: 1:18,000





**Legend**

**Proposed Project Components**

- Proposed Turbine Location
- MET Tower
- Transformer
- Access Road
- Acoustic Barrier
- Transmission Line
- Transmission Line Alternate Route
- Collector Line
- Substation/ Operation and Maintenance Building
- Participating Property

**Other Crystallized Wind Turbines**

- Jericho- NextEra, Proposed
- ProofLine I, Constructed
- ProofLine II, Proposed
- RavensWood, Constructed

**Other Infrastructure**

- Transformer- NextEra Jericho
- Substation- NextEra Jericho

**Noise Contours**

- 40 dBA
- 45 dBA

**Noise Receptors**

- Participating Occupied
- Participating Vacant
- Non-Participating Occupied
- Non-Participating
- Other

**Existing Features**

- Road
- Waterbody

**Notes**

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Client/Project: Sunco Energy Cedar Point Wind Power Project

Figure No. 6

Title: Predicted Sound Levels, Leq [dBA] Sunco Energy Products – Cedar Point Wind Power Project Siemens SWT 2.3-113 Wind Turbines, 10m height wind speed = 8m/s Sound Level Grid Height Calculated at 4.5m

Scale: 1:18,000

May 2014





**Legend**

**Proposed Project Components**

- Proposed Turbine Location
- Transformer
- MET Tower
- Access Road
- Acoustic Barrier
- Transmission Line
- Transmission Line Alternate Route
- Collector Line
- Substation/ Operation and Maintenance Building
- Participating Property

**Other Crystallized Wind Turbines**

- Jericho- NextEra, Proposed
- ProffLine I, Constructed
- ProffLine II, Proposed
- RavensWood, Constructed

**Other Infrastructure**

- Transformer- NextEra Jericho
- Substation- NextEra Jericho

**Noise Contours**

- 40 dBA
- 49 dBA

**Noise Receptors**

- Participating Occupied
- Participating Vacant
- Non-Participating Occupied
- Non-Participating
- Other

**Existing Features**

- Road
- Waterbody

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Client/Project: Suncor Energy Cedar Point Wind Power Project

Figure No: 7

Title: Predicted Sound Levels, Leq [dBA] Suncor Energy Products – Cedar Point Wind Power Project Siemens SWT 2.3-113 Wind Turbines, 10m height wind speed = 9m/s Sound Level Grid Height Calculated at 4.5m

Scale: 1:17,527





**Legend**

<b>Proposed Project Components</b>	<b>Noise Contours</b>
● Proposed Turbine Location	— 40 dBa
★ Transformer	— 51 dBa
● MET Tower	
— Access Road	<b>Noise Receptors</b>
— Acoustic Barrier	● Participating Occupied
— Transmission Line	▲ Participating Vacant
— Transmission Line Alternate Route	■ Non-Participating Occupied
— Collector Line	■ Non-Participating
— Substation/ Operation and Maintenance Building	■ Other
— Participating Property	<b>Existing Features</b>
<b>Other Crystallized Wind Turbines</b>	— Road
● Jericho- NextEra, Proposed	— Waterbody
● ProofLine I, Constructed	
● ProofLine II, Proposed	
● RavensWood, Constructed	
<b>Other Infrastructure</b>	
★ Transformer- NextEra Jericho	
■ Substation- NextEra Jericho	

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
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Client/Project: Suncor Energy  
Cedar Point Wind Power Project

Figure No. 8

Title: **Predicted Sound Levels, Leq [dB(A)]  
Suncor Energy Products – Cedar Point Wind Power Project  
Siemens SWT 2.3-113 Wind Turbines,  
10m height wind speed = 10m/s  
Sound Level Grid Height Calculated at 4.5m**

Scale: 1:10,000

North Arrow



# APPENDIX A: ASSESSMENT SUMMARY TABLES



ACOUSTICS



NOISE



VIBRATION

**NOISE ASSESSMENT SUMMARY TABLES**  
**VERSION CONTROL**

Cedar Point Wind Power Project, Lambton County, Ontario

<b>Tables Ver.</b>	<b>Date</b>	<b>Issued as Part of NAR?</b>	<b>Version Description</b>	<b>Prepared By</b>
1	05-Sep-12	Y	Original DRAFT Acoustic Assessment Report supporting a Renewable Energy Application	I. Bonsma
2	25-Jan-13	Y	Revised version of tables as part of Ver. 2 of the Acoustic Assessment Report	I. Bonsma
3	10-Apr-13	Y	Revised version of tables as part of Ver. 3 of the Noise Assessment Report	I. Bonsma
4	26-Jun-13	Y	Revised version of tables as part of Ver. 4 of the Noise Assessment Report	I. Bonsma
5	12-Feb-14	Y	Revised version of tables as part of Ver. 5 of the Noise Assessment Report	I. Bonsma
6	13-May-14	Y	Revised version of tables as part of Ver. 6 of the Noise Assessment Report	I. Bonsma
7	20-May-14	Y	Revised version of tables as part of Ver. 7 of the Noise Assessment Report	I. Bonsma

**Table A1a: Siemens 2.3-113 Wind Turbine Acoustic Emissions Summary  
Suncor Cedar Point Wind Power Project**

<b>Make and Model:</b>		Siemens SWT-2.3-113									
<b>Electrical Rating:</b>		2.2 MW									
<b>Hub Height (m):</b>		99.5m									
<b>Wind Shear Coefficient:</b>		Maximum sound power level utilized to account for average summer nighttime wind shear value of 0.33									
		Octave Band Sound Power Level [dB]									
		Manufacturer's Emission Levels					Adjusted Emission Level				
<b>Wind Speed [m/s]</b>		6	7	8	9	10	6	7	8	9	10
<b>Frequency [Hz]</b>											
<b>63</b>		111.0	109.8	109.7	109.9	109.6	111.0	111.0	111.0	111.0	111.0
<b>125</b>		107.0	107.4	104.9	104.4	103.6	107.0	107.0	107.0	107.0	107.0
<b>250</b>		106.2	106.3	105.8	105.3	104.5	106.2	106.2	106.2	106.2	106.2
<b>500</b>		101.4	101.2	101.0	100.9	100.6	101.4	101.4	101.4	101.4	101.4
<b>1000</b>		98.8	98.7	98.0	98.0	98.3	98.8	98.8	98.8	98.8	98.8
<b>2000</b>		94.4	94.2	95.9	96.2	96.7	94.4	94.4	94.4	94.4	94.4
<b>4000</b>		83.1	86.8	89.8	91.7	91.9	83.1	83.1	83.1	83.1	83.1
<b>8000</b>		66.7	72.3	75.6	75.7	75.6	66.7	66.7	66.7	66.7	66.7
<b>Overall A-Weighted</b>		104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0

**Table A1b: Siemens 2.3-113 Wind Turbine Acoustic Emissions Summary  
Suncor Cedar Point Wind Power Project**

<b>Make and Model:</b>		Siemens SWT-2.3-113									
<b>Electrical Rating:</b>		2.1 MW									
<b>Hub Height (m):</b>		99.5m									
<b>Wind Shear Coefficient:</b>		Maximum sound power level utilized to account for average summer nighttime wind shear value of 0.33									
		Octave Band Sound Power Level [dB]									
		Manufacturer's Emission Levels					Adjusted Emission Level				
<b>Wind Speed [m/s]</b>		6	7	8	9	10	6	7	8	9	10
<b>Frequency [Hz]</b>											
<b>63</b>		110.8	110.1	109.5	109.6	109.4	110.8	110.8	110.8	110.8	110.8
<b>125</b>		106.7	105.4	104.6	104.1	103.3	106.7	106.7	106.7	106.7	106.7
<b>250</b>		105.6	104.9	104.9	104.3	103.6	105.6	105.6	105.6	105.6	105.6
<b>500</b>		99.9	100.1	100.2	100.1	99.8	99.9	99.9	99.9	99.9	99.9
<b>1000</b>		97.4	97.7	97.0	97.0	97.3	97.4	97.4	97.4	97.4	97.4
<b>2000</b>		93.8	94.0	94.8	95.0	95.6	93.8	93.8	93.8	93.8	93.8
<b>4000</b>		83.0	86.0	88.3	90.2	90.4	83.0	83.0	83.0	83.0	83.0
<b>8000</b>		67.4	71.5	74.1	74.2	74.1	67.4	67.4	67.4	67.4	67.4
<b>Overall A-Weighted</b>		103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0



**Table A1c: Siemens 2.3-113 Wind Turbine Acoustic Emissions Summary  
Suncor Cedar Point Wind Power Project**

<b>Make and Model:</b>		Siemens SWT-2.3-113									
<b>Electrical Rating:</b>		2.0 MW									
<b>Hub Height (m):</b>		99.5m									
<b>Wind Shear Coefficient:</b>		Maximum sound power level utilized to account for average summer nighttime wind shear value of 0.33									
		Octave Band Sound Power Level [dB]									
		Manufacturer's Emission Levels					Adjusted Emission Level				
<b>Wind Speed [m/s]</b>		6	7	8	9	10	6	7	8	9	10
<b>Frequency [Hz]</b>											
<b>63</b>		110.5	109.8	109.3	109.4	109.1	110.5	110.5	110.5	110.5	110.5
<b>125</b>		106.3	105.1	104.2	103.7	102.8	106.3	106.3	106.3	106.3	106.3
<b>250</b>		105.0	104.1	103.7	103.1	102.4	105.0	105.0	105.0	105.0	105.0
<b>500</b>		98.4	98.7	98.7	98.5	98.3	98.4	98.4	98.4	98.4	98.4
<b>1000</b>		96.0	96.3	96.1	96.0	96.3	96.0	96.0	96.0	96.0	96.0
<b>2000</b>		93.2	93.5	94.0	94.2	94.7	93.2	93.2	93.2	93.2	93.2
<b>4000</b>		82.8	86.0	88.3	90.2	90.4	82.8	82.8	82.8	82.8	82.8
<b>8000</b>		68.0	71.8	74.2	74.2	74.1	68.0	68.0	68.0	68.0	68.0
<b>Overall A-Weighted</b>		102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0

**Table A1d: Vestas V82 Wind Turbine Acoustic Emissions Summary  
Proof Line and Ravenswood Wind Farms**

<b>Make and Model:</b>		Vestas V82									
<b>Electrical Rating:</b>		1.65 MW									
<b>Hub Height (m):</b>		80m									
<b>Wind Shear Coefficient:</b>		0.22 from Proofline Report adjusted to site specific 0.33									
		Octave Band Sound Power Level [dB]									
		Manufacturer's Emission Levels					Adjusted Emission Level				
<b>Wind Speed [m/s]</b>		6	7	8	9	10	6	7	8	9	10
<b>Frequency [Hz]</b>											
<b>63</b>		108.1	111.6	115.1	116.8	117.6	115.1	116.8	117.6	116.4	115.2
<b>125</b>		106.0	108.7	112.0	113.7	114.5	112.0	113.7	114.5	113.3	112.1
<b>250</b>		104.6	106.6	109.1	109.6	110.4	109.1	109.6	110.4	109.2	108.0
<b>500</b>		99.3	101.1	103.8	106.8	107.6	103.8	106.8	107.6	106.4	105.2
<b>1000</b>		96.1	97.7	101.5	103.4	104.2	101.5	103.4	104.2	103	101.8
<b>2000</b>		92.8	94.2	97.3	99.3	100.1	97.3	99.3	100.1	98.9	97.7
<b>4000</b>		91.8	92.3	95.6	94.7	95.5	95.6	94.7	95.5	94.3	93.1
<b>8000</b>		80.1	82.7	88.2	87.3	88.1	88.2	87.3	88.1	86.9	85.7
<b>Overall A-Weighted</b>		102.5	104.2	107.3	109.0	109.8	107.3	109.0	109.8	108.6	107.4



**Table A1e: Vestas V90 Wind Turbine Acoustic Emissions Summary  
Proof Line Wind Farm**

<b>Make and Model:</b>		Vestas V90									
<b>Electrical Rating:</b>		1.8 MW									
<b>Hub Height (m):</b>		80m									
<b>Wind Shear Coefficient:</b>		0.22 from Proofline Report adjusted to site specific 0.33									
		<b>Octave Band Sound Power Level [dB]</b>									
		<b>Manufacturer's Emission Levels</b>					<b>Adjusted Emission Level</b>				
<b>Wind Speed [m/s]</b>		<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>Frequency [Hz]</b>											
<b>63</b>		113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3
<b>125</b>		110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2
<b>250</b>		106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1
<b>500</b>		103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3
<b>1000</b>		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
<b>2000</b>		95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
<b>4000</b>		91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
<b>8000</b>		83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
<b>Overall A-Weighted</b>		105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5

**Table A1f: GE 1.6 100 Wind Turbine Acoustic Emissions Summary  
NextEra Jericho Wind Energy Centre**

<b>Make and Model:</b>		GE 1.6 - 100									
<b>Electrical Rating:</b>		1.62 MW									
<b>Hub Height (m):</b>		80 m									
<b>Wind Shear Coefficient:</b>		Maximum sound power level utilized to account for average summer nighttime wind shear value of 0.33									
		<b>Octave Band Sound Power Level (dB)</b>									
		<b>Manufacturer's Emission Levels</b>					<b>Adjusted Emission Level</b>				
<b>Wind Speed [m/s]</b>		<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>Frequency [Hz]</b>											
<b>63</b>		106.5	110.2	110.3	110.3	110.2	110.2	110.2	110.2	110.2	110.2
<b>125</b>		104.5	107.7	107.9	107.9	107.8	107.8	107.8	107.8	107.8	107.8
<b>250</b>		103.3	104.0	103.9	104.0	104.1	104.1	104.1	104.1	104.1	104.1
<b>500</b>		98.7	100.3	99.8	99.9	100.2	100.2	100.2	100.2	100.2	100.2
<b>1000</b>		91.8	97.1	97.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8
<b>2000</b>		91.2	94.5	94.5	94.3	93.9	93.9	93.9	93.9	93.9	93.9
<b>4000</b>		87.9	88.7	88.1	87.4	86.9	86.9	86.9	86.9	86.9	86.9
<b>8000</b>		71.4	71.5	71.7	70.5	70.2	70.2	70.2	70.2	70.2	70.2
<b>Overall A-Weighted</b>		100.5	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0

**Table A2: Wind Turbine Generator Locations  
Suncor Cedar Point Wind Power Project**

Source ID	Wind Turbine Generator Make and Model	UTM Coordinates	
		Eastings	Northing
Suncor WTG1	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	423325	4779947
Suncor WTG2	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	423377	4779347
Suncor WTG4	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	422879	4778982
Suncor WTG5	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	423245	4778344
Suncor WTG6	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	422802	4778019
Suncor WTG7	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	421230	4778183
Suncor WTG8	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	422865	4777231
Suncor WTG9	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	422893	4775653
Suncor WTG10	Siemens SWT-2.3-113, 99.5m hub height, 2.030 MW	419153	4777370
Suncor WTG11	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	422661	4775135
Suncor WTG13	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	419265	4776572
Suncor WTG14	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	419035	4775996
Suncor WTG15	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	420667	4774508
Suncor WTG16	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	421160	4774047
Suncor WTG17	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	419179	4775153
Suncor WTG18	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	420545	4773644
Suncor WTG19	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	418499	4774532
Suncor WTG20	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	420881	4773009
Suncor WTG21	Siemens SWT-2.3-113, 99.5m hub height, 2.030 MW	416732	4776214
Suncor WTG22	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	416903	4775746
Suncor WTG23	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	416180	4775949
Suncor WTG24	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	416619	4775229
Suncor WTG25	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	417026	4774693
Suncor WTG26	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	421545	4770967
Suncor WTG27	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	416257	4774033
Suncor WTG29	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	420519	4770627
Suncor WTG30	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	414976	4774473
Suncor WTG31	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	414508	4773498
Suncor WTG32	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	413984	4773786
Suncor WTG34	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	413419	4773597
Suncor WTG35	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	413504	4771876
Suncor WTG36	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	412817	4771516
Suncor WTG37	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	412242	4771844
Suncor WTG39	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	410803	4771647
Suncor WTG40	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	412134	4769169
Suncor WTG41	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	410537	4769264
Suncor WTG42	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	413558	4766375
Suncor WTG43	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	410885	4768546
Suncor WTG44	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	409812	4769400
Suncor WTG46	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	413838	4765546
Suncor WTG47	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	408115	4768818
Suncor WTG48	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	408411	4768249
Suncor WTG50	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	410398	4765477
Suncor WTG51	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	408572	4766648
Suncor WTG53	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	408885	4765445
Suncor WTG54	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	407818	4765618
Suncor WTG69	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	412533	4768085

Source ID	Wind Turbine Generator Make and Model	UTM Coordinates	
		Eastings	Northing
Suncor WTG70	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	413660	4767965
Suncor WTG71	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	414270	4770586
Suncor WTG72	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	414073	4766424
Suncor WTG76	Siemens SWT-2.3-113, 99.5m hub height, 2.126 MW	413336	4768393
Suncor WTG79	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	411606	4765300
Suncor WTG80	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	412204	4765167
Suncor WTG81	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	413092	4768868
Suncor WTG82	Siemens SWT-2.3-113, 99.5m hub height, 2.221 MW	421271	4777618
TS1	General Electric Transformer, 110 MVA	416857	4775052

**Proof Line Wind Farm Project**

Source ID	Wind Turbine Generator Make and Model	UTM Coordinates	
		Eastings	Northing
Proof Line WTG01	Vestas V90, 1.8 MW, 80m hub height	416282	4777012
Proof Line WTG02	Vestas V82, 1.65 MW, 80m hub height	416495	4777750
Proof Line WTG03	Vestas V82, 1.65 MW, 80m hub height	416902	4778472
Proof Line WTG04	Vestas V82, 1.65 MW, 80m hub height	417181	4778747
Proof Line WTG05	Vestas V90, 1.8 MW, 80m hub height	416615	4776648
Proof Line WTG06	Vestas V82, 1.65 MW, 80m hub height	416977	4777374

**Ravenswood Wind Farm Project**

Source ID	Wind Turbine Generator Make and Model	UTM Coordinates	
		Eastings	Northing
Ravenswood WTG01	Vestas V82, 1.65 MW, 80m hub height	420250	4780721
Ravenswood WTG02	Vestas V82, 1.65 MW, 80m hub height	420389	4780308
Ravenswood WTG03	Vestas V82, 1.65 MW, 80m hub height	420207	4781572
Ravenswood WTG04	Vestas V82, 1.65 MW, 80m hub height	421256	4780873
Ravenswood WTG05	Vestas V82, 1.65 MW, 80m hub height	420208	4781269
Ravenswood WTG06	Vestas V82, 1.65 MW, 80m hub height	420923	4780537



**Jericho Wind Farm Project**

Source ID	Wind Turbine Generator Make and Model	UTM Coordinates	
		Easting	Northing
Jericho WTG 01	General Electric GE1.6-100, 1.6 MW, 80m hub height	422624	4782877
Jericho WTG 02	General Electric GE1.6-100, 1.6 MW, 80m hub height	423076	4782967
Jericho WTG 03	General Electric GE1.6-100, 1.6 MW, 80m hub height	425072	4782306
Jericho WTG 04	General Electric GE1.6-100, 1.6 MW, 80m hub height	426390	4782888
Jericho WTG 05	General Electric GE1.6-100, 1.6 MW, 80m hub height	427541	4784137
Jericho WTG 06	General Electric GE1.6-100, 1.6 MW, 80m hub height	427880	4782909
Jericho WTG 07	General Electric GE1.6-100, 1.6 MW, 80m hub height	429752	4783065
Jericho WTG 08	General Electric GE1.6-100, 1.6 MW, 80m hub height	431218	4782647
Jericho WTG 09	General Electric GE1.6-100, 1.6 MW, 80m hub height	432948	4782666
Jericho WTG 10	General Electric GE1.6-100, 1.6 MW, 80m hub height	432980	4782332
Jericho WTG 11	General Electric GE1.6-100, 1.6 MW, 80m hub height	423300	4781540
Jericho WTG 12	General Electric GE1.6-100, 1.6 MW, 80m hub height	423455	4781110
Jericho WTG 13	General Electric GE1.6-100, 1.6 MW, 80m hub height	425096	4781354
Jericho WTG 14	General Electric GE1.6-100, 1.6 MW, 80m hub height	425407	4780588
Jericho WTG 15	General Electric GE1.6-100, 1.6 MW, 80m hub height	425432	4779689
Jericho WTG 16	General Electric GE1.6-100, 1.6 MW, 80m hub height	425427	4779324
Jericho WTG 17	General Electric GE1.6-100, 1.6 MW, 80m hub height	425438	4779000
Jericho WTG 18	General Electric GE1.6-100, 1.6 MW, 80m hub height	424671	4777622
Jericho WTG 19	General Electric GE1.6-100, 1.6 MW, 80m hub height	426927	4781538
Jericho WTG 20	General Electric GE1.6-100, 1.6 MW, 80m hub height	427625	4781512
Jericho WTG 21	General Electric GE1.6-100, 1.6 MW, 80m hub height	426904	4779457
Jericho WTG 22	General Electric GE1.6-100, 1.6 MW, 80m hub height	427490	4779351
Jericho WTG 23	General Electric GE1.6-100, 1.6 MW, 80m hub height	426912	4779123
Jericho WTG 24	General Electric GE1.6-100, 1.6 MW, 80m hub height	427496	4778951
Jericho WTG 25	General Electric GE1.6-100, 1.6 MW, 80m hub height	426702	4778723
Jericho WTG 26	General Electric GE1.6-100, 1.6 MW, 80m hub height	426705	4777447
Jericho WTG 27	General Electric GE1.6-100, 1.6 MW, 80m hub height	429702	4781114
Jericho WTG 28	General Electric GE1.6-100, 1.6 MW, 80m hub height	428834	4780429
Jericho WTG 29	General Electric GE1.6-100, 1.6 MW, 80m hub height	429082	4779472
Jericho WTG 30	General Electric GE1.6-100, 1.6 MW, 80m hub height	428966	4779176
Jericho WTG 31	General Electric GE1.6-100, 1.6 MW, 80m hub height	431737	4781108
Jericho WTG 32	General Electric GE1.6-100, 1.6 MW, 80m hub height	432946	4780524
Jericho WTG 33	General Electric GE1.6-100, 1.6 MW, 80m hub height	433468	4780620
Jericho WTG 34	General Electric GE1.6-100, 1.6 MW, 80m hub height	433305	4778809
Jericho WTG 35	General Electric GE1.6-100, 1.6 MW, 80m hub height	423023	4774153
Jericho WTG 36	General Electric GE1.6-100, 1.6 MW, 80m hub height	423163	4773804
Jericho WTG 37	General Electric GE1.6-100, 1.6 MW, 80m hub height	422709	4773370
Jericho WTG 38	General Electric GE1.6-100, 1.6 MW, 80m hub height	422315	4772336
Jericho WTG 39	General Electric GE1.6-100, 1.6 MW, 80m hub height	424752	4775510
Jericho WTG 40	General Electric GE1.6-100, 1.6 MW, 80m hub height	424739	4774511
Jericho WTG 41	General Electric GE1.6-100, 1.6 MW, 80m hub height	425265	4774348
Jericho WTG 42	General Electric GE1.6-100, 1.6 MW, 80m hub height	425195	4773894
Jericho WTG 43	General Electric GE1.6-100, 1.6 MW, 80m hub height	424568	4773358
Jericho WTG 44	General Electric GE1.6-100, 1.6 MW, 80m hub height	425250	4771778
Jericho WTG 45	General Electric GE1.6-100, 1.6 MW, 80m hub height	427315	4775969
Jericho WTG 46	General Electric GE1.6-100, 1.6 MW, 80m hub height	427344	4775093
Jericho WTG 47	General Electric GE1.6-100, 1.6 MW, 80m hub height	427230	4774277
Jericho WTG 48	General Electric GE1.6-100, 1.6 MW, 80m hub height	426991	4773869

Source ID	Wind Turbine Generator Make and Model	UTM Coordinates	
		Eastings	Northing
Jericho WTG 49	General Electric GE1.6-100, 1.6 MW, 80m hub height	426878	4773491
Jericho WTG 50	General Electric GE1.6-100, 1.6 MW, 80m hub height	426937	4773188
Jericho WTG 51	General Electric GE1.6-100, 1.6 MW, 80m hub height	426974	4772870
Jericho WTG 52	General Electric GE1.6-100, 1.6 MW, 80m hub height	426800	4772226
Jericho WTG 53	General Electric GE1.6-100, 1.6 MW, 80m hub height	426701	4771707
Jericho WTG 54	General Electric GE1.6-100, 1.6 MW, 80m hub height	427078	4771459
Jericho WTG 55	General Electric GE1.6-100, 1.6 MW, 80m hub height	427482	4771487
Jericho WTG 56	General Electric GE1.6-100, 1.6 MW, 80m hub height	429249	4775281
Jericho WTG 57	General Electric GE1.6-100, 1.6 MW, 80m hub height	429070	4774660
Jericho WTG 58	General Electric GE1.6-100, 1.6 MW, 80m hub height	428800	4774175
Jericho WTG 59	General Electric GE1.6-100, 1.6 MW, 80m hub height	429218	4773628
Jericho WTG 60	General Electric GE1.6-100, 1.6 MW, 80m hub height	428729	4772001
Jericho WTG 61	General Electric GE1.6-100, 1.6 MW, 80m hub height	428870	4771602
Jericho WTG 62	General Electric GE1.6-100, 1.6 MW, 80m hub height	428396	4771388
Jericho WTG 63	General Electric GE1.6-100, 1.6 MW, 80m hub height	429171	4771190
Jericho WTG 64	General Electric GE1.6-100, 1.6 MW, 80m hub height	429434	4770999
Jericho WTG 65	General Electric GE1.6-100, 1.6 MW, 80m hub height	431622	4776681
Jericho WTG 66	General Electric GE1.6-100, 1.6 MW, 80m hub height	430977	4775907
Jericho WTG 67	General Electric GE1.6-100, 1.6 MW, 80m hub height	431368	4775755
Jericho WTG 68	General Electric GE1.6-100, 1.6 MW, 80m hub height	430927	4775519
Jericho WTG 69	General Electric GE1.6-100, 1.6 MW, 80m hub height	431033	4775239
Jericho WTG 70	General Electric GE1.6-100, 1.6 MW, 80m hub height	431153	4774338
Jericho WTG 71	General Electric GE1.6-100, 1.6 MW, 80m hub height	431413	4773975
Jericho WTG 72	General Electric GE1.6-100, 1.6 MW, 80m hub height	431241	4773292
Jericho WTG 73	General Electric GE1.6-100, 1.6 MW, 80m hub height	431190	4771673
Jericho WTG 74	General Electric GE1.6-100, 1.6 MW, 80m hub height	431458	4771501
Jericho WTG 75	General Electric GE1.6-100, 1.6 MW, 80m hub height	430375	4770394
Jericho WTG 76	General Electric GE1.6-100, 1.6 MW, 80m hub height	430783	4770250
Jericho WTG 77	General Electric GE1.6-100, 1.6 MW, 80m hub height	433007	4777262
Jericho WTG 78	General Electric GE1.6-100, 1.6 MW, 80m hub height	433148	4776918
Jericho WTG 79	General Electric GE1.6-100, 1.6 MW, 80m hub height	433445	4776777
Jericho WTG 80	General Electric GE1.6-100, 1.6 MW, 80m hub height	433011	4775171
Jericho WTG 81	General Electric GE1.6-100, 1.6 MW, 80m hub height	433464	4775119
Jericho WTG 82	General Electric GE1.6-100, 1.6 MW, 80m hub height	433893	4775152
Jericho WTG 83	General Electric GE1.6-100, 1.6 MW, 80m hub height	433198	4773791
Jericho WTG 84	General Electric GE1.6-100, 1.6 MW, 80m hub height	433120	4773447
Jericho WTG 85	General Electric GE1.6-100, 1.6 MW, 80m hub height	433574	4773553
Jericho WTG 86	General Electric GE1.6-100, 1.6 MW, 80m hub height	432842	4771321
Jericho WTG 88	General Electric GE1.6-100, 1.6 MW, 80m hub height	423333	4771025
Jericho WTG 89	General Electric GE1.6-100, 1.6 MW, 80m hub height	423570	4770500
Jericho WTG 90	General Electric GE1.6-100, 1.6 MW, 80m hub height	424258	4770677
Jericho WTG 91	General Electric GE1.6-100, 1.6 MW, 80m hub height	425041	4770354
Jericho WTG 92	General Electric GE1.6-100, 1.6 MW, 80m hub height	425439	4770368
Jericho WTG 94	General Electric GE1.6-100, 1.6 MW, 80m hub height	430779	4768868
Jericho WTG 96	General Electric GE1.6-100, 1.6 MW, 80m hub height	423842	4769183
Jericho WTG 97	General Electric GE1.6-100, 1.6 MW, 80m hub height	423840	4768848
Jericho WTG 102	General Electric GE1.6-100, 1.6 MW, 80m hub height	433049	4766446
Jericho WTG 103	General Electric GE1.6-100, 1.6 MW, 80m hub height	433371	4766165
Jericho WTG 104	General Electric GE1.6-100, 1.6 MW, 80m hub height	423276	4765200
Jericho WTG 105	General Electric GE1.6-100, 1.6 MW, 80m hub height	421483	4763587
Jericho Transformer		427098	4777771



**Table A3: Non-Participating Receptor Locations  
 Suncor Cedar Point Wind Power Project**

Point of Reception ID	Description	UTM Coordinates		Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing			Easting	Northing
4	Non-Participating Receptor	409600	4767224	156	Non-Participating Receptor	416518	4772603
6	Non-Participating Receptor	414920	4773133	160	Non-Participating Receptor	416916	4773232
7	Non-Participating Receptor	415407	4773632	163	Non-Participating Receptor	417310	4773162
9	Non-Participating Receptor	417978	4772971	177	Non-Participating Receptor	418736	4769909
10	Non-Participating Receptor	424063	4778817	179	Non-Participating Receptor	418776	4770070
68	Non-Participating Receptor	405947	4765113	182	Non-Participating Receptor	418929	4769889
69	Non-Participating Receptor	406046	4765191	183	Non-Participating Receptor	418948	4779260
72	Non-Participating Receptor	406424	4765060	186	Non-Participating Receptor	419767	4773470
73	Non-Participating Receptor	406427	4769112	187	Non-Participating Receptor	419770	4773507
74	Non-Participating Receptor	406488	4764880	188	Non-Participating Receptor	419791	4773775
76	Non-Participating Receptor	406700	4770064	189	Non-Participating Receptor	419808	4774627
78	Non-Participating Receptor	406924	4764732	192	Non-Participating Receptor	419898	4774791
79	Non-Participating Receptor	407180	4767493	194	Non-Participating Receptor	419909	4779231
81	Non-Participating Receptor	407368	4764720	196	Non-Participating Receptor	419992	4777931
86	Non-Participating Receptor	408381	4764537	198	Non-Participating Receptor	420046	4778224
87	Non-Participating Receptor	408580	4764589	199	Non-Participating Receptor	420063	4779640
89	Non-Participating Receptor	408810	4764671	200	Non-Participating Receptor	420280	4769634
92	Non-Participating Receptor	409032	4763898	201	Non-Participating Receptor	420232	4772401
93	Non-Participating Receptor	409179	4766109	202	Non-Participating Receptor	420279	4772387
94	Non-Participating Receptor	409378	4770172	203	Non-Participating Receptor	420610	4778257
95	Non-Participating Receptor	409771	4763621	206	Non-Participating Receptor	420919	4769657
96	Non-Participating Receptor	409776	4770010	207	Non-Participating Receptor	421065	4769683
99	Non-Participating Receptor	410576	4772557	208	Non-Participating Receptor	421193	4769863
100	Non-Participating Receptor	410729	4770066	209	Non-Participating Receptor	421300	4772130
102	Non-Participating Receptor	410884	4767780	210	Non-Participating Receptor	421456	4772092
103	Non-Participating Receptor	410925	4767579	218	Non-Participating Receptor	421852	4773699
104	Non-Participating Receptor	411384	4767345	219	Non-Participating Receptor	421929	4778798
105	Non-Participating Receptor	411635	4766961	221	Non-Participating Receptor	422006	4776539
106	Non-Participating Receptor	411828	4770027	222	Non-Participating Receptor	422019	4778506
107	Non-Participating Receptor	412042	4767186	223	Non-Participating Receptor	422034	4775933
108	Non-Participating Receptor	412114	4770061	224	Non-Participating Receptor	422079	4778454
109	Non-Participating Receptor	412319	4769909	225	Non-Participating Receptor	422140	4769858
110	Non-Participating Receptor	412453	4769815	226	Non-Participating Receptor	422152	4769999
112	Non-Participating Receptor	412652	4764430	227	Non-Participating Receptor	422237	4771756
114	Non-Participating Receptor	413003	4774041	228	Non-Participating Receptor	422262	4769896
117	Non-Participating Receptor	413086	4767257	229	Non-Participating Receptor	422347	4769878
120	Non-Participating Receptor	413214	4764540	230	Non-Participating Receptor	422403	4771847
121	Non-Participating Receptor	413252	4772968	231	Non-Participating Receptor	422405	4776484
122	Non-Participating Receptor	413308	4774400	232	Non-Participating Receptor	422680	4771821
123	Non-Participating Receptor	413350	4769638	235	Non-Participating Receptor	422821	4771217
124	Non-Participating Receptor	413527	4767249	236	Non-Participating Receptor	422990	4771610
125	Non-Participating Receptor	413634	4769716	239	Non-Participating Receptor	423966	4775180
126	Non-Participating Receptor	413661	4772845	240	Non-Participating Receptor	424062	4780140
127	Non-Participating Receptor	413746	4764353	241	Non-Participating Receptor	424110	4776999
129	Non-Participating Receptor	413990	4764499	243	Non-Participating Receptor	424182	4780917
130	Non-Participating Receptor	414012	4767233	252	Non-Participating Receptor	406673	4769605
132	Non-Participating Receptor	414329	4769778	258	Non-Participating Receptor	406666	4764523
135	Non-Participating Receptor	414589	4767102	260	Non-Participating Receptor	408959	4767289
136	Non-Participating Receptor	414592	4776290	261	Non-Participating Receptor	413036	4774246
137	Non-Participating Receptor	414593	4766180	262	Non-Participating Receptor	413519	4764411
138	Non-Participating Receptor	414814	4765243	263	Non-Participating Receptor	414262	4769825
142	Non-Participating Receptor	415166	4777560	264	Non-Participating Receptor	415104	4767073
143	Non-Participating Receptor	415213	4769409	265	Non-Participating Receptor	417149	4773192
144	Non-Participating Receptor	415240	4777602	270	Non-Participating Receptor	419902	4774824
145	Non-Participating Receptor	415244	4777495	271	Non-Participating Receptor	419980	4772341
146	Non-Participating Receptor	415275	4777529	273	Non-Participating Receptor	420277	4776793
147	Non-Participating Receptor	415308	4777423	275	Non-Participating Receptor	420609	4769637
148	Non-Participating Receptor	415355	4777411	276	Non-Participating Receptor	420938	4769976
149	Non-Participating Receptor	415661	4767209	278	Non-Participating Receptor	421193	4772149
150	Non-Participating Receptor	415857	4772761	279	Non-Participating Receptor	424147	4777441
151	Non-Participating Receptor	415900	4772407	280	Non-Participating Receptor	424340	4776862
152	Non-Participating Receptor	415902	4773546	281	Non-Participating Receptor	424403	4776892



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Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
315	Non-Participating Receptor	406652	4767567
317	Non-Participating Receptor	407012	4764908
332	Non-Participating Receptor	418992	4769987
333	Non-Participating Receptor	419241	4769967
334	Non-Participating Receptor	419281	4769813
335	Non-Participating Receptor	419617	4769984
336	Non-Participating Receptor	419671	4769869
337	Non-Participating Receptor	419865	4772476
338	Non-Participating Receptor	420177	4769983
339	Non-Participating Receptor	420261	4769978
340	Non-Participating Receptor	420552	4769966
341	Non-Participating Receptor	421346	4769876
342	Non-Participating Receptor	422334	4769991
343	Non-Participating Receptor	422796	4770407
345	Non-Participating Receptor	422797	4769874
346	Non-Participating Receptor	422938	4770007
350	Non-Participating Receptor	424062	4780093
430	Non-Participating Receptor	406299	4768825
431	Non-Participating Receptor	406384	4764585
438	Non-Participating Receptor	406792	4770030
439	Non-Participating Receptor	406993	4767491
440	Non-Participating Receptor	407107	4764445
441	Non-Participating Receptor	407170	4767256
442	Non-Participating Receptor	407219	4764638
443	Non-Participating Receptor	407430	4764637
446	Non-Participating Receptor	407626	4764907
449	Non-Participating Receptor	407749	4767505
454	Non-Participating Receptor	408035	4764334
456	Non-Participating Receptor	408063	4770177
460	Non-Participating Receptor	408173	4764617
473	Non-Participating Receptor	408318	4767265
517	Non-Participating Receptor	408331	4769933
541	Non-Participating Receptor	408410	4770173
647	Non-Participating Receptor	408505	4764790
769	Non-Participating Receptor	408660	4767472
771	Non-Participating Receptor	408679	4770170
774	Non-Participating Receptor	408869	4764575
777	Non-Participating Receptor	408905	4772166
779	Non-Participating Receptor	408966	4763836
782	Non-Participating Receptor	409050	4772308
783	Non-Participating Receptor	409067	4768849
785	Non-Participating Receptor	409109	4763827
786	Non-Participating Receptor	409137	4764918
787	Non-Participating Receptor	409147	4769846
788	Non-Participating Receptor	409248	4772341
789	Non-Participating Receptor	409250	4768299
790	Non-Participating Receptor	409244	4767262
791	Non-Participating Receptor	409285	4763877
792	Non-Participating Receptor	409316	4767435
793	Non-Participating Receptor	409329	4772603
794	Non-Participating Receptor	409329	4771733
795	Non-Participating Receptor	409437	4772599
796	Non-Participating Receptor	409450	4767434
797	Non-Participating Receptor	409450	4764643
798	Non-Participating Receptor	409480	4772613
799	Non-Participating Receptor	409584	4772610
800	Non-Participating Receptor	409608	4772617
801	Non-Participating Receptor	409637	4772642
802	Non-Participating Receptor	409777	4764783
803	Non-Participating Receptor	409819	4764732
804	Non-Participating Receptor	409939	4770115
805	Non-Participating Receptor	410175	4764630

Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
806	Non-Participating Receptor	410187	4770085
808	Non-Participating Receptor	410212	4767256
809	Non-Participating Receptor	410617	4767325
810	Non-Participating Receptor	410763	4770185
812	Non-Participating Receptor	410884	4765818
813	Non-Participating Receptor	410899	4767077
814	Non-Participating Receptor	410938	4767262
815	Non-Participating Receptor	410987	4772993
816	Non-Participating Receptor	410990	4767454
817	Non-Participating Receptor	411000	4766396
818	Non-Participating Receptor	411062	4772795
819	Non-Participating Receptor	411072	4772943
820	Non-Participating Receptor	411114	4770247
821	Non-Participating Receptor	411129	4765833
822	Non-Participating Receptor	411440	4767231
823	Non-Participating Receptor	411506	4770629
824	Non-Participating Receptor	411533	4772666
825	Non-Participating Receptor	411728	4766816
826	Non-Participating Receptor	411839	4774550
827	Non-Participating Receptor	411894	4772655
829	Non-Participating Receptor	411992	4776494
832	Non-Participating Receptor	412196	4772873
833	Non-Participating Receptor	412309	4767340
834	Non-Participating Receptor	412322	4766361
835	Non-Participating Receptor	412708	4766342
836	Non-Participating Receptor	412723	4770042
837	Non-Participating Receptor	412782	4765667
838	Non-Participating Receptor	412858	4769661
840	Non-Participating Receptor	413008	4770017
842	Non-Participating Receptor	413410	4770054
843	Non-Participating Receptor	413432	4772862
846	Non-Participating Receptor	413783	4772906
847	Non-Participating Receptor	413852	4764487
849	Non-Participating Receptor	413882	4772541
850	Non-Participating Receptor	413896	4772903
851	Non-Participating Receptor	413908	4775133
852	Non-Participating Receptor	414096	4775362
853	Non-Participating Receptor	414118	4764399
854	Non-Participating Receptor	414147	4764584
855	Non-Participating Receptor	414189	4767213
857	Non-Participating Receptor	414318	4770006
858	Non-Participating Receptor	414358	4775697
859	Non-Participating Receptor	414396	4772542
860	Non-Participating Receptor	414547	4764540
861	Non-Participating Receptor	414553	4764636
862	Non-Participating Receptor	414600	4764657
863	Non-Participating Receptor	414604	4764780
864	Non-Participating Receptor	414633	4765468
865	Non-Participating Receptor	414641	4765089
866	Non-Participating Receptor	414652	4768266
867	Non-Participating Receptor	414677	4776078
868	Non-Participating Receptor	414682	4769435
869	Non-Participating Receptor	414719	4764403
870	Non-Participating Receptor	414720	4765870
871	Non-Participating Receptor	414786	4764474
873	Non-Participating Receptor	414847	4769952
874	Non-Participating Receptor	414896	4772567
875	Non-Participating Receptor	414909	4776402
877	Non-Participating Receptor	415083	4776585
878	Non-Participating Receptor	415105	4767241
879	Non-Participating Receptor	415190	4777651
880	Non-Participating Receptor	415215	4770045



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Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
881	Non-Participating Receptor	415233	4773678
882	Non-Participating Receptor	415246	4766869
883	Non-Participating Receptor	415247	4776802
884	Non-Participating Receptor	415263	4777094
885	Non-Participating Receptor	415319	4773569
886	Non-Participating Receptor	415353	4772511
887	Non-Participating Receptor	415450	4777422
888	Non-Participating Receptor	415457	4767029
889	Non-Participating Receptor	415463	4767208
890	Non-Participating Receptor	415464	4777064
891	Non-Participating Receptor	415422	4764436
894	Non-Participating Receptor	415583	4769898
895	Non-Participating Receptor	415601	4767078
896	Non-Participating Receptor	415691	4775340
897	Non-Participating Receptor	415819	4769801
898	Non-Participating Receptor	415863	4777835
899	Non-Participating Receptor	415864	4767182
901	Non-Participating Receptor	416001	4777560
905	Non-Participating Receptor	416190	4772642
906	Non-Participating Receptor	416246	4772640
907	Non-Participating Receptor	416267	4778042
914	Non-Participating Receptor	416547	4772639
918	Non-Participating Receptor	416634	4773318
922	Non-Participating Receptor	416962	4773226
924	Non-Participating Receptor	417024	4772582
927	Non-Participating Receptor	417240	4773150
930	Non-Participating Receptor	417296	4772472
931	Non-Participating Receptor	417324	4772472
938	Non-Participating Receptor	417615	4774072
939	Non-Participating Receptor	417659	4776703
943	Non-Participating Receptor	417735	4774413
945	Non-Participating Receptor	417765	4776006
946	Non-Participating Receptor	417798	4777199
947	Non-Participating Receptor	417824	4774362
950	Non-Participating Receptor	417874	4775300
951	Non-Participating Receptor	417876	4773070
952	Non-Participating Receptor	417880	4776537
954	Non-Participating Receptor	417913	4777393
955	Non-Participating Receptor	417914	4777712
966	Non-Participating Receptor	418579	4770626
976	Non-Participating Receptor	419436	4773557
978	Non-Participating Receptor	419496	4774027
983	Non-Participating Receptor	419667	4774366
984	Non-Participating Receptor	419789	4773804
985	Non-Participating Receptor	419808	4774658
994	Non-Participating Receptor	419957	4773527
996	Non-Participating Receptor	420025	4776062
997	Non-Participating Receptor	420040	4778833
999	Non-Participating Receptor	420101	4775042
1002	Non-Participating Receptor	420445	4775052
1004	Non-Participating Receptor	420505	4772226
1005	Non-Participating Receptor	420539	4772173
1020	Non-Participating Receptor	421067	4770481
1023	Non-Participating Receptor	421176	4772070
1025	Non-Participating Receptor	421189	4775010
1032	Non-Participating Receptor	421748	4776413
1033	Non-Participating Receptor	421757	4776015
1035	Non-Participating Receptor	421813	4772093
1038	Non-Participating Receptor	421937	4771800
1040	Non-Participating Receptor	421955	4777111
1041	Non-Participating Receptor	421972	4774374
1043	Non-Participating Receptor	421987	4778765

Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
1044	Non-Participating Receptor	421989	4778908
1051	Non-Participating Receptor	422134	4779118
1052	Non-Participating Receptor	422149	4779830
1053	Non-Participating Receptor	422189	4776646
1056	Non-Participating Receptor	422360	4771855
1057	Non-Participating Receptor	422584	4776635
1058	Non-Participating Receptor	422628	4776564
1060	Non-Participating Receptor	422676	4781775
1071	Non-Participating Receptor	423105	4781903
1077	Non-Participating Receptor	423481	4776692
1079	Non-Participating Receptor	423578	4774876
1083	Non-Participating Receptor	423824	4773677
1084	Non-Participating Receptor	423879	4775438
1086	Non-Participating Receptor	423927	4774319
1088	Non-Participating Receptor	423981	4781047
1091	Non-Participating Receptor	424013	4774043
1092	Non-Participating Receptor	424015	4777016
1097	Non-Participating Receptor	424164	4775333
1099	Non-Participating Receptor	424253	4775884
1100	Non-Participating Receptor	424295	4779258
1105	Non-Participating Receptor	424738	4780138
1133	Non-Participating Receptor	426093	4776880
1141	Non-Participating Receptor	426154	4776453
1159	Non-Participating Vacant Lot	406491	4769207
1160	Non-Participating Vacant Lot	406674	4764836
1162	Non-Participating Vacant Lot	410150	4772189
1165	Non-Participating Vacant Lot	411312	4772824
1166	Non-Participating Vacant Lot	411768	4773084
1167	Non-Participating Receptor	411823	4763205
1174	Non-Participating Vacant Lot	414039	4772690
1246	Non-Participating Receptor	406496	4768772
1248	Non-Participating Vacant Lot	406167	4765120
1252	Non-Participating Vacant Lot	406326	4764980
1255	Non-Participating Receptor	406546	4769311
1256	Non-Participating Vacant Lot	406777	4767355
1258	Non-Participating Vacant Lot	406918	4764632
1264	Non-Participating Vacant Lot	407260	4764739
1266	Non-Participating Vacant Lot	407281	4770188
1267	Non-Participating Vacant Lot	407297	4764637
1269	Non-Participating Vacant Lot	407494	4764611
1271	Non-Participating Vacant Lot	407571	4767337
1273	Non-Participating Vacant Lot	408027	4767321
1279	Non-Participating Vacant Lot	408496	4770145
1280	Non-Participating Vacant Lot	408539	4764221
1285	Non-Participating Vacant Lot	408729	4770018
1290	Non-Participating Vacant Lot	409151	4767102
1291	Non-Participating Vacant Lot	409229	4772419
1295	Non-Participating Vacant Lot	409424	4772492
1298	Non-Participating Vacant Lot	409666	4770111
1302	Non-Participating Vacant Lot	409968	4767366
1303	Non-Participating Vacant Lot	409994	4763537
1304	Non-Participating Vacant Lot	410104	4767257
1308	Non-Participating Vacant Lot	410484	4767364
1310	Non-Participating Vacant Lot	410715	4764630
1315	Non-Participating Receptor	411127	4763379
1316	Non-Participating Vacant Lot	410948	4773284
1319	Non-Participating Vacant Lot	411087	4772289
1320	Non-Participating Vacant Lot	411211	4769975
1321	Non-Participating Vacant Lot	411115	4773130
1322	Non-Participating Vacant Lot	411153	4770602
1324	Non-Participating Vacant Lot	411214	4772658
1326	Non-Participating Vacant Lot	411427	4764623



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Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
1328	Non-Participating Vacant Lot	411480	4769960
1330	Non-Participating Receptor	411634	4774053
1332	Non-Participating Vacant Lot	411666	4772790
1333	Non-Participating Receptor	411566	4763286
1334	Non-Participating Vacant Lot	411720	4767321
1335	Non-Participating Vacant Lot	411755	4769924
1337	Non-Participating Vacant Lot	411862	4774766
1341	Non-Participating Vacant Lot	412024	4767311
1342	Non-Participating Vacant Lot	411071	4773287
1343	Non-Participating Vacant Lot	412222	4770021
1344	Non-Participating Vacant Lot	412249	4764455
1345	Non-Participating Vacant Lot	412227	4772759
1346	Non-Participating Vacant Lot	412348	4774268
1347	Non-Participating Vacant Lot	412362	4767300
1352	Non-Participating Vacant Lot	412639	4763473
1356	Non-Participating Vacant Lot	412705	4765693
1358	Non-Participating Vacant Lot	412730	4763471
1359	Non-Participating Vacant Lot	412755	4764215
1361	Non-Participating Vacant Lot	412934	4767164
1362	Non-Participating Vacant Lot	412924	4769635
1364	Non-Participating Vacant Lot	412973	4772943
1365	Non-Participating Vacant Lot	413061	4774105
1367	Non-Participating Vacant Lot	413098	4774369
1368	Non-Participating Vacant Lot	413211	4774992
1369	Non-Participating Receptor	412517	4775083
1371	Non-Participating Vacant Lot	413259	4764421
1372	Non-Participating Vacant Lot	413281	4775104
1373	Non-Participating Vacant Lot	413346	4764538
1374	Non-Participating Vacant Lot	413471	4775311
1377	Non-Participating Vacant Lot	413559	4775408
1383	Non-Participating Vacant Lot	413836	4769976
1384	Non-Participating Vacant Lot	413858	4767251
1387	Non-Participating Vacant Lot	414364	4776646
1395	Non-Participating Vacant Lot	414607	4766788
1396	Non-Participating Vacant Lot	414620	4772568
1398	Non-Participating Vacant Lot	414536	4767220
1399	Non-Participating Vacant Lot	414657	4765677
1400	Non-Participating Vacant Lot	414683	4766379
1402	Non-Participating Vacant Lot	414747	4768180
1403	Non-Participating Vacant Lot	414759	4771177
1404	Non-Participating Vacant Lot	414789	4771990
1406	Non-Participating Vacant Lot	414812	4776268
1407	Non-Participating Vacant Lot	414921	4772045
1408	Non-Participating Vacant Lot	414969	4769955
1409	Non-Participating Vacant Lot	414980	4776637
1413	Non-Participating Vacant Lot	415108	4776793
1414	Non-Participating Vacant Lot	415148	4773715
1418	Non-Participating Vacant Lot	415349	4776918
1420	Non-Participating Vacant Lot	415410	4769912
1422	Non-Participating Vacant Lot	415610	4769793
1424	Non-Participating Vacant Lot	415640	4772534
1425	Non-Participating Vacant Lot	415656	4773463
1426	Non-Participating Vacant Lot	415661	4777465
1427	Non-Participating Vacant Lot	415734	4773550
1428	Non-Participating Vacant Lot	415740	4777394
1429	Non-Participating Vacant Lot	415748	4767056
1430	Non-Participating Vacant Lot	415765	4774399
1431	Non-Participating Vacant Lot	415771	4774605
1435	Non-Participating Vacant Lot	415830	4774871
1436	Non-Participating Vacant Lot	415846	4769904
1437	Non-Participating Vacant Lot	415873	4775216
1441	Non-Participating Vacant Lot	416073	4769776

Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
1442	Non-Participating Vacant Lot	416206	4778133
1446	Non-Participating Vacant Lot	416311	4773262
1449	Non-Participating Vacant Lot	416423	4773388
1462	Non-Participating Vacant Lot	416786	4772335
1474	Non-Participating Vacant Lot	417589	4772967
1480	Non-Participating Vacant Lot	417738	4774331
1483	Non-Participating Vacant Lot	417788	4777185
1484	Non-Participating Vacant Lot	417789	4776771
1486	Non-Participating Vacant Lot	417808	4773509
1487	Non-Participating Vacant Lot	417819	4773939
1489	Non-Participating Vacant Lot	417855	4774872
1491	Non-Participating Vacant Lot	417912	4776950
1492	Non-Participating Vacant Lot	417940	4778175
1493	Non-Participating Vacant Lot	417960	4778619
1520	Non-Participating Vacant Lot	418754	4769981
1522	Non-Participating Vacant Lot	418938	4770844
1525	Non-Participating Vacant Lot	418958	4773319
1531	Non-Participating Vacant Lot	419189	4778418
1534	Non-Participating Vacant Lot	419250	4772279
1537	Non-Participating Vacant Lot	419345	4769879
1538	Non-Participating Vacant Lot	419802	4774931
1539	Non-Participating Vacant Lot	419417	4769998
1544	Non-Participating Receptor	419744	4770219
1545	Non-Participating Vacant Lot	419746	4772408
1549	Non-Participating Vacant Lot	419843	4772968
1550	Non-Participating Vacant Lot	419850	4772808
1552	Non-Participating Vacant Lot	419861	4776868
1553	Non-Participating Vacant Lot	419861	4773206
1555	Non-Participating Vacant Lot	419873	4769995
1556	Non-Participating Vacant Lot	419877	4778513
1558	Non-Participating Vacant Lot	419893	4772369
1559	Non-Participating Vacant Lot	419909	4778224
1560	Non-Participating Vacant Lot	419910	4778018
1563	Non-Participating Vacant Lot	419932	4775636
1565	Non-Participating Vacant Lot	419953	4776335
1566	Non-Participating Vacant Lot	419984	4777296
1568	Non-Participating Vacant Lot	420025	4769993
1569	Non-Participating Vacant Lot	420028	4778555
1570	Non-Participating Vacant Lot	420033	4779212
1573	Non-Participating Vacant Lot	420132	4769982
1575	Non-Participating Vacant Lot	420212	4772288
1578	Non-Participating Vacant Lot	420347	4769991
1581	Non-Participating Vacant Lot	420472	4769870
1584	Non-Participating Vacant Lot	420576	4772321
1587	Non-Participating Vacant Lot	420769	4775052
1594	Non-Participating Vacant Lot	420965	4768966
1598	Non-Participating Vacant Lot	421088	4771950
1599	Non-Participating Vacant Lot	421504	4771955
1602	Non-Participating Vacant Lot	421710	4769861
1603	Non-Participating Vacant Lot	421711	4769981
1605	Non-Participating Vacant Lot	421829	4772980
1608	Non-Participating Vacant Lot	421862	4769981
1610	Non-Participating Vacant Lot	421897	4771858
1611	Non-Participating Vacant Lot	421902	4775578
1612	Non-Participating Vacant Lot	421911	4772681
1613	Non-Participating Vacant Lot	421920	4769860
1614	Non-Participating Vacant Lot	421935	4776883
1615	Non-Participating Vacant Lot	421937	4773192
1616	Non-Participating Vacant Lot	421937	4773617
1617	Non-Participating Vacant Lot	421947	4773933
1618	Non-Participating Vacant Lot	421955	4780849
1619	Non-Participating Vacant Lot	421957	4776698



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Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
1620	Non-Participating Vacant Lot	421983	4778385
1621	Non-Participating Vacant Lot	421983	4774746
1622	Non-Participating Vacant Lot	422099	4780505
1623	Non-Participating Vacant Lot	422013	4769980
1624	Non-Participating Vacant Lot	422018	4779301
1625	Non-Participating Vacant Lot	422029	4779713
1626	Non-Participating Vacant Lot	422038	4771951
1627	Non-Participating Vacant Lot	422039	4780056
1630	Non-Participating Vacant Lot	422061	4777909
1634	Non-Participating Vacant Lot	422342	4780410
1636	Non-Participating Vacant Lot	422633	4771620
1642	Non-Participating Vacant Lot	422928	4771732
1643	Non-Participating Vacant Lot	422939	4770485
1646	Non-Participating Vacant Lot	423654	4774970
1648	Non-Participating Vacant Lot	423920	4773957
1649	Non-Participating Vacant Lot	423926	4774162
1650	Non-Participating Vacant Lot	423961	4775889
1652	Non-Participating Vacant Lot	423970	4775618
1654	Non-Participating Vacant Lot	423993	4776386
1657	Non-Participating Vacant Lot	424003	4776729
1659	Non-Participating Vacant Lot	424016	4777913
1660	Non-Participating Vacant Lot	424020	4777479
1661	Non-Participating Vacant Lot	424020	4774264
1663	Non-Participating Vacant Lot	424034	4774717
1664	Non-Participating Vacant Lot	424048	4775086
1665	Non-Participating Vacant Lot	424058	4780492
1667	Non-Participating Vacant Lot	424078	4776201
1668	Non-Participating Vacant Lot	424085	4776408
1669	Non-Participating Vacant Lot	424104	4776727
1670	Non-Participating Vacant Lot	424106	4777278
1671	Non-Participating Vacant Lot	424115	4777681
1672	Non-Participating Vacant Lot	424138	4778934
1673	Non-Participating Vacant Lot	424155	4779848
1675	Non-Participating Vacant Lot	424153	4780488
1773	Non-Participating Vacant Lot	428208	4779622
1785	Occupied School	410694	4767354
1786	Non-Participating Receptor	422044	4776662
1787	Non-Participating Receptor	410205	4767484
1788	Non-Participating Vacant Lot	410704	4767249
1789	Non-Participating Receptor	406923	4770395
1790	Non-Participating Vacant Lot	420065	4776805
1791	Non-Participating Vacant Lot	417834	4777715
1792	Non-Participating Vacant Lot	422117	4779889
1793	Non-Participating Vacant Lot	419960	4779619
1794	Non-Participating Vacant Lot	416135	4777871
1797	Non-Participating Vacant Lot	409812	4767362
2267	Non-Participating Receptor	418218	4772912
2268	Non-Participating Receptor	418380	4772864
2269	Non-Participating Receptor	418408	4772857
2270	Non-Participating Receptor	418433	4772847
2271	Non-Participating Receptor	418455	4772842
2272	Non-Participating Receptor	418516	4772823
2273	Non-Participating Receptor	418549	4772852
2274	Non-Participating Receptor	418583	4772809
2275	Non-Participating Receptor	418625	4772792
2276	Non-Participating Receptor	418653	4772785
2277	Non-Participating Receptor	418693	4772778
2278	Non-Participating Receptor	418693	4772817
2279	Non-Participating Receptor	418753	4772870
2280	Non-Participating Receptor	418781	4772863
2281	Non-Participating Receptor	418811	4773015
2282	Non-Participating Receptor	418811	4772916

Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
2283	Non-Participating Receptor	418813	4772877
2284	Non-Participating Receptor	418890	4772946
2285	Non-Participating Receptor	418917	4772940
2286	Non-Participating Receptor	418943	4772931
2287	Non-Participating Receptor	418965	4772928
2288	Non-Participating Receptor	418877	4772897
2289	Non-Participating Receptor	419020	4772939
2290	Non-Participating Receptor	419027	4772964
2291	Non-Participating Receptor	419030	4772994
2292	Non-Participating Receptor	418951	4772983
2293	Non-Participating Receptor	418944	4773014
2294	Non-Participating Receptor	418953	4773048
2295	Non-Participating Receptor	418958	4773112
2296	Non-Participating Receptor	418953	4773152
2297	Non-Participating Receptor	418957	4773186
2298	Non-Participating Receptor	418955	4773212
2299	Non-Participating Receptor	418962	4773242
2300	Non-Participating Receptor	418961	4773272
2301	Non-Participating Receptor	419039	4773190
2302	Non-Participating Receptor	419020	4773123
2303	Non-Participating Receptor	419054	4773078
2304	Non-Participating Receptor	419079	4773048
2305	Non-Participating Receptor	419027	4772906
2306	Non-Participating Receptor	418815	4772846
2307	Non-Participating Receptor	419209	4772638
2308	Non-Participating Receptor	419224	4772647
2309	Non-Participating Receptor	419395	4772675
2310	Non-Participating Receptor	419461	4772637
2311	Non-Participating Receptor	419489	4772655
2312	Non-Participating Receptor	419507	4772670
2313	Non-Participating Receptor	419531	4772682
2314	Non-Participating Receptor	419552	4772694
2315	Non-Participating Receptor	419487	4772722
2316	Non-Participating Receptor	419508	4772731
2317	Non-Participating Receptor	419558	4772763
2318	Non-Participating Receptor	419594	4772721
2319	Non-Participating Receptor	419637	4772448
2320	Non-Participating Receptor	419844	4772410
2321	Non-Participating Receptor	419776	4772424
2322	Non-Participating Receptor	419429	4772533
2323	Non-Participating Receptor	419462	4772497
2324	Non-Participating Receptor	419404	4772526
2325	Non-Participating Receptor	419392	4772512
2326	Non-Participating Receptor	419376	4772503
2327	Non-Participating Receptor	419363	4772492
2328	Non-Participating Receptor	419345	4772479
2329	Non-Participating Receptor	419326	4772471
2330	Non-Participating Receptor	419290	4772449
2331	Non-Participating Receptor	419269	4772438
2332	Non-Participating Receptor	419251	4772423
2333	Non-Participating Vacant Lot	411106	4770053
2334	Non-Participating Vacant Lot	411568	4769959
2335	Non-Participating Receptor	421951	4776578
2336	Non-Participating Receptor	405921	4765212
2337	Non-Participating Receptor	405873	4765257
2353	Non-Participating Vacant Lot	412843	4767274
2354	Non-Participating Receptor	406738	4768525
2355	Non-Participating Receptor	419589	4772791
2356	Non-Participating Vacant Lot	418408	4773393
2357	Non-Participating Vacant Lot	418487	4773419
2358	Non-Participating Vacant Lot	418505	4773194
2359	Non-Participating Vacant Lot	418428	4773197



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Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
2360	Non-Participating Vacant Lot	418475	4773060
2361	Non-Participating Receptor	409781	4772665
2435	Non-Participating Vacant Lot	410931	4767319
2436	Non-Participating Vacant Lot	409057	4766138
2437	School	428296	4778595
2438	Non-Participating Receptor	426439	4779589
2440	Non-Participating Receptor	426595	4776820
2441	Non-Participating Receptor	427849	4776655
2443	Non-Participating Receptor	426856	4776815
2444	Non-Participating Receptor	428210	4776726
2446	Non-Participating Receptor	424723	4778246
2447	Non-Participating Receptor	426291	4779190
2448	Non-Participating Receptor	428174	4778232
2449	Non-Participating Receptor	426056	4777945
2451	Non-Participating Receptor	428112	4777381
2452	Non-Participating Receptor	424819	4778152
2453	Non-Participating Receptor	428277	4778831
2454	Non-Participating Receptor	428212	4779044
2455	Non-Participating Receptor	428202	4778816
2456	Non-Participating Receptor	428240	4777492
2461	Non-Participating Receptor	428331	4776778
2462	Non-Participating Receptor	426151	4776453
2463	Non-Participating Receptor	426162	4776767
2464	Non-Participating Receptor	428334	4776898
2465	Non-Participating Receptor	427222	4778179
2466	Non-Participating Receptor	428187	4778562
2468	Non-Participating Vacant Lot	428312	4778421
2469	Non-Participating Vacant Lot	426046	4776559
2470	Non-Participating Vacant Lot	427201	4776984
2471	Non-Participating Vacant Lot	428256	4777389
2472	Non-Participating Vacant Lot	427264	4778036
2473	Non-Participating Vacant Lot	426030	4777631
2474	Non-Participating Vacant Lot	426038	4778226
2475	Non-Participating Vacant Lot	428272	4777603
2476	Non-Participating Vacant Lot	428248	4777182
2477	Non-Participating Vacant Lot	428117	4777182
2479	Non-Participating Vacant Lot	428673	4777992
2480	Non-Participating Vacant Lot	428454	4778122
2481	Non-Participating Vacant Lot	425554	4778079
2482	Non-Participating Vacant Lot	428343	4779049
2483	Non-Participating Vacant Lot	428296	4779131
2484	Non-Participating Vacant Lot	426216	4777512
2485	Non-Participating Vacant Lot	427050	4777012
2486	Non-Participating Vacant Lot	428173	4778634
2487	Non-Participating Vacant Lot	428149	4777758
2488	Non-Participating Vacant Lot	428149	4776988
2489	Non-Participating Receptor	428214	4779491
2490	Non-Participating Vacant Lot	426407	4776565
2491	Non-Participating Vacant Lot	426085	4779091
2492	Non-Participating Vacant Lot	425808	4776837
2494	Non-Participating Vacant Lot	426216	4777226
2561	Non-Participating Receptor	411287	4767299
2562	Non-Participating Vacant Lot	415411	4769940
2563	Non-Participating Receptor	414741	4776180
2566	Non-Participating Vacant Lot	420750	4772257
2567	Non-Participating Receptor	421438	4769871
2568	Non-Participating Vacant Lot	421368	4769875
2569	Non-Participating Receptor	408982	4763984
2604	Non-Participating Vacant Lot	414596	4764580
2605	Non-Participating Vacant Lot	414567	4764812
2606	Non-Participating Vacant Lot	414549	4764762
2607	Non-Participating Receptor	409529	4772556

Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
2609	Non-Participating Receptor	409387	4770124
2610	Non-Participating Receptor	411725	4766814
2611	Non-Participating Receptor	422830	4771255
2622	Non-Participating Receptor	419580	4772708
2637	Non-Participating Vacant Lot	419857	4773016
2638	Non-Participating Receptor	419828	4772891
2639	Non-Participating Receptor	421940	4776641
2640	Non-Participating Vacant Lot	418397	4773046
2641	Non-Participating Receptor	410389	4773280
2642	Non-Participating Receptor	428300	4779500
2643	Non-Participating Vacant Lot	428801	4776865
2645	Non-Participating Vacant Lot	428224	4776457
2646	Non-Participating Vacant Lot	428204	4776315
2648	Non-Participating Vacant Lot	417856	4773026
2649	Non-Participating Vacant Lot	415501	4777257
2650	Non-Participating Vacant Lot	415471	4777295
2651	Non-Participating Vacant Lot	415440	4777324
2652	Non-Participating Vacant Lot	415400	4777363
2653	Non-Participating Vacant Lot	415284	4777458
2654	Non-Participating Vacant Lot	415210	4777525
2655	Non-Participating Vacant Lot	415327	4777509
2657	Non-Participating Vacant Lot	415415	4777448
2658	Non-Participating Vacant Lot	415374	4777475
2659	Non-Participating Vacant Lot	415345	4777492
2661	Non-Participating Vacant Lot	412830	4775365
2662	Non-Participating Receptor	412812	4775342
2663	Non-Participating Receptor	412795	4775324
2664	Non-Participating Vacant Lot	412784	4775311
2665	Non-Participating Vacant Lot	412769	4775279
2666	Non-Participating Receptor	412752	4775259
2667	Non-Participating Receptor	412724	4775245
2668	Non-Participating Vacant Lot	412694	4775262
2669	Non-Participating Receptor	412689	4775295
2670	Non-Participating Receptor	412666	4775310
2671	Non-Participating Vacant Lot	412647	4775326
2672	Non-Participating Receptor	412628	4775338
2673	Non-Participating Vacant Lot	412611	4775354
2674	Non-Participating Receptor	412594	4775366
2675	Non-Participating Receptor	412567	4775377
2684	Non-Participating Receptor	412724	4775435
2685	Non-Participating Receptor	412746	4775424
2686	Non-Participating Receptor	412781	4775386
2687	Non-Participating Receptor	412738	4775327
2688	Non-Participating Receptor	412692	4775355
2689	Non-Participating Receptor	412676	4775373
2690	Non-Participating Receptor	412651	4775388
2691	Non-Participating Receptor	412623	4775429
2692	Non-Participating Vacant Lot	412767	4775404
2693	Non-Participating Vacant Lot	412711	4775337
2694	Non-Participating Vacant Lot	412638	4775405
2696	Non-Participating Vacant Lot	412706	4775457
2697	Non-Participating Receptor	412358	4775250
2698	Non-Participating Receptor	412090	4774954
2699	Non-Participating Receptor	411673	4774140
2700	Non-Participating Receptor	411686	4774171
2701	Non-Participating Receptor	411655	4774114
2702	Non-Participating Receptor	411604	4774165
2703	Non-Participating Receptor	411557	4774132
2704	Non-Participating Receptor	411540	4774115
2705	Non-Participating Receptor	411518	4774089
2706	Non-Participating Receptor	411487	4774053
2707	Non-Participating Receptor	411658	4774247



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Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
2708	Non-Participating Vacant Lot	411630	4774086
2709	Non-Participating Vacant Lot	411786	4774444
2710	Non-Participating Vacant Lot	411731	4774358
2711	Non-Participating Vacant Lot	412745	4773920
2712	Non-Participating Receptor	410713	4773616
2713	Non-Participating Receptor	410693	4773598
2714	Non-Participating Receptor	410714	4773535
2715	Non-Participating Receptor	410676	4773578
2716	Non-Participating Receptor	410683	4773508
2717	Non-Participating Receptor	410657	4773560
2718	Non-Participating Receptor	410638	4773554
2719	Non-Participating Receptor	410661	4773493
2720	Non-Participating Receptor	410644	4773483
2721	Non-Participating Receptor	410601	4773544
2722	Non-Participating Receptor	410580	4773525
2723	Non-Participating Receptor	410603	4773446
2724	Non-Participating Receptor	410556	4773483
2725	Non-Participating Receptor	410577	4773429
2726	Non-Participating Receptor	410532	4773468
2727	Non-Participating Receptor	410558	4773420
2728	Non-Participating Receptor	410509	4773450
2729	Non-Participating Receptor	410539	4773392
2730	Non-Participating Receptor	410487	4773436
2731	Non-Participating Receptor	410522	4773388
2732	Non-Participating Receptor	410505	4773374
2733	Non-Participating Receptor	410470	4773423
2734	Non-Participating Receptor	410481	4773359
2735	Non-Participating Receptor	410428	4773386
2736	Non-Participating Receptor	410446	4773327
2737	Non-Participating Receptor	410409	4773363
2738	Non-Participating Vacant Lot	410465	4773344
2739	Non-Participating Receptor	410380	4773353
2740	Non-Participating Receptor	410427	4773311
2742	Non-Participating Receptor	410362	4773343
2743	Non-Participating Receptor	410345	4773327
2744	Non-Participating Receptor	410331	4773313
2745	Non-Participating Receptor	410306	4773296
2746	Non-Participating Receptor	410349	4773251
2747	Non-Participating Vacant Lot	410404	4773298
2748	Non-Participating Vacant Lot	410369	4773266
2749	Non-Participating Receptor	410289	4773276
2750	Non-Participating Receptor	410323	4773237
2751	Non-Participating Receptor	410310	4773220
2752	Non-Participating Receptor	410274	4773263
2753	Non-Participating Receptor	410248	4773243
2754	Non-Participating Receptor	410231	4773235
2755	Non-Participating Receptor	410216	4773216
2756	Non-Participating Receptor	410270	4773196
2757	Non-Participating Receptor	410253	4773177
2758	Non-Participating Receptor	410233	4773169
2759	Non-Participating Receptor	410209	4773153
2760	Non-Participating Receptor	410181	4773198
2761	Non-Participating Receptor	410159	4773179
2762	Non-Participating Receptor	410115	4773165
2763	Non-Participating Receptor	410093	4773145
2764	Non-Participating Receptor	410066	4773134
2765	Non-Participating Vacant Lot	410290	4773208
2766	Non-Participating Receptor	410163	4773126
2767	Non-Participating Receptor	410142	4773108
2768	Non-Participating Receptor	410124	4773093
2769	Non-Participating Receptor	410101	4773085
2770	Non-Participating Receptor	410080	4773066

Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
2771	Non-Participating Receptor	410056	4773054
2772	Non-Participating Receptor	410050	4773112
2773	Non-Participating Receptor	410027	4773109
2774	Non-Participating Receptor	410007	4773093
2775	Non-Participating Receptor	410010	4773030
2776	Non-Participating Receptor	409989	4773074
2777	Non-Participating Receptor	409970	4773062
2778	Non-Participating Receptor	409915	4773048
2779	Non-Participating Vacant Lot	410183	4773141
2780	Non-Participating Vacant Lot	409981	4773016
2781	Non-Participating Receptor	409864	4772966
2782	Non-Participating Receptor	409833	4772962
2783	Non-Participating Receptor	409802	4772955
2784	Non-Participating Receptor	409771	4772936
2785	Non-Participating Receptor	409733	4772927
2786	Non-Participating Vacant Lot	410016	4772919
2787	Non-Participating Receptor	409665	4772884
2789	Non-Participating Receptor	409647	4772880
2790	Non-Participating Receptor	409630	4772868
2791	Non-Participating Receptor	409590	4772841
2792	Non-Participating Receptor	409575	4772835
2793	Non-Participating Receptor	409559	4772829
2794	Non-Participating Receptor	409546	4772823
2795	Non-Participating Receptor	409538	4772807
2796	Non-Participating Receptor	409523	4772793
2797	Non-Participating Receptor	409499	4772797
2798	Non-Participating Vacant Lot	409609	4772845
2799	Non-Participating Receptor	409667	4772821
2800	Non-Participating Receptor	409657	4772815
2801	Non-Participating Receptor	409642	4772809
2802	Non-Participating Receptor	409626	4772798
2803	Non-Participating Receptor	409608	4772788
2804	Non-Participating Receptor	409626	4772762
2805	Non-Participating Receptor	409640	4772741
2806	Non-Participating Receptor	409661	4772722
2807	Non-Participating Receptor	409604	4772715
2808	Non-Participating Receptor	409590	4772744
2809	Non-Participating Receptor	409582	4772757
2810	Non-Participating Receptor	409573	4772768
2811	Non-Participating Receptor	409551	4772736
2812	Non-Participating Receptor	409566	4772712
2813	Non-Participating Receptor	409585	4772673
2814	Non-Participating Vacant Lot	409574	4772690
2815	Non-Participating Vacant Lot	409555	4772723
2816	Non-Participating Vacant Lot	409534	4772756
2817	Non-Participating Receptor	409473	4772778
2818	Non-Participating Receptor	409456	4772768
2819	Non-Participating Receptor	409438	4772755
2820	Non-Participating Receptor	409417	4772751
2821	Non-Participating Receptor	409397	4772739
2822	Non-Participating Receptor	409385	4772733
2823	Non-Participating Receptor	409367	4772720
2824	Non-Participating Receptor	409497	4772730
2825	Non-Participating Receptor	409505	4772716
2826	Non-Participating Receptor	409514	4772703
2827	Non-Participating Receptor	409524	4772688
2828	Non-Participating Receptor	409532	4772674
2829	Non-Participating Receptor	409539	4772659
2830	Non-Participating Receptor	409461	4772711
2831	Non-Participating Receptor	409470	4772697
2832	Non-Participating Receptor	409477	4772679
2833	Non-Participating Receptor	409487	4772667



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Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
2834	Non-Participating Receptor	409495	4772657
2835	Non-Participating Receptor	409455	4772652
2836	Non-Participating Receptor	409444	4772667
2837	Non-Participating Receptor	409437	4772680
2838	Non-Participating Receptor	409428	4772691
2840	Non-Participating Receptor	409398	4772658
2841	Non-Participating Receptor	409407	4772643
2842	Non-Participating Receptor	409416	4772634
2843	Non-Participating Receptor	409427	4772617
2844	Non-Participating Vacant Lot	409464	4772631
2845	Non-Participating Receptor	409312	4772689
2846	Non-Participating Receptor	409291	4772677
2847	Non-Participating Receptor	409277	4772667
2848	Non-Participating Receptor	409264	4772643
2849	Non-Participating Receptor	409258	4772629

Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
2850	Non-Participating Receptor	409256	4772613
2851	Non-Participating Receptor	409248	4772597
2852	Non-Participating Receptor	409248	4772576
2853	Non-Participating Receptor	409248	4772558
2854	Non-Participating Receptor	409180	4772609
2855	Non-Participating Vacant Lot	409123	4771588
2856	Non-Participating Vacant Lot	409050	4770132
2857	Non-Participating Receptor	411848	4763235
2858	Non-Participating Receptor	406719	4768301
2859	Non-Participating Receptor	409388	4772673
2861	Non-Participating Vacant Lot	422755	4771764
2863	Non-Participating Vacant Lot	426108	4778796
2864	Non-Participating Vacant Lot	415574	4777355
2865	Non-Participating Vacant Lot	410915	4772665



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**Table A4: Participating Receptor Locations  
Suncor Cedar Point Wind Power Project**

Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
3	Participating Receptor	409279	4768889
5	Participating Receptor	412079	4769770
8	Participating Receptor	417725	4775290
98	Participating Receptor	409962	4769981
118	Participating Receptor	413106	4772965
190	Participating Receptor	419838	4775553
191	Participating Receptor	419877	4777320
193	Participating Receptor	419903	4774507
448	Participating Receptor	407672	4764910
455	Participating Receptor	408051	4767558
465	Participating Receptor	408243	4764697
778	Participating Receptor	408954	4767449
807	Participating Receptor	410203	4769956
811	Participating Receptor	410870	4769873
828	Participating Receptor	411912	4765778
830	Participating Receptor	412139	4764592
831	Participating Receptor	412184	4772665
839	Participating Receptor	412917	4772503
841	Participating Receptor	413085	4772491
844	Participating Receptor	413470	4767305
845	Participating Receptor	413582	4767134
848	Participating Receptor	413854	4767040
856	Participating Receptor	414313	4772893
872	Participating Receptor	414828	4772945
935	Participating Receptor	417565	4775619
941	Participating Receptor	417702	4774679
953	Participating Receptor	417887	4775566
987	Participating Receptor	419832	4775152
992	Participating Receptor	419914	4777731
1016	Participating Receptor	420999	4772330
1031	Participating Receptor	421743	4774479
1039	Participating Receptor	421948	4777621
1042	Participating Receptor	421975	4778071
1045	Participating Receptor	421993	4775108
1048	Participating Receptor	422099	4775631
1049	Participating Receptor	422109	4778866
1050	Participating Receptor	422131	4780012
1094	Participating Receptor	424051	4779275
1274	Participating Vacant Lot	408082	4764713
1276	Participating Vacant Lot	408338	4767310
1277	Participating Vacant Lot	408338	4767433
1282	Participating Vacant Lot	408564	4767433
1283	Participating Vacant Lot	408638	4767300
1288	Participating Vacant Lot	408945	4764682

Point of Reception ID	Description	UTM Coordinates	
		Easting	Northing
1293	Participating Vacant Lot	409405	4770027
1307	Participating Vacant Lot	410403	4764634
1313	Participating Vacant Lot	410831	4767349
1318	Participating Vacant Lot	411064	4771396
1348	Participating Vacant Lot	412495	4767296
1354	Participating Vacant Lot	412689	4767290
1363	Participating Vacant Lot	412956	4767284
1366	Participating Vacant Lot	413071	4769883
1370	Participating Vacant Lot	413259	4767270
1376	Participating Vacant Lot	413477	4772603
1394	Participating Vacant Lot	414577	4765945
1401	Participating Vacant Lot	414726	4770529
1410	Participating Vacant Lot	414981	4773758
1416	Participating Vacant Lot	415198	4776734
1419	Participating Vacant Lot	415399	4773548
1443	Participating Vacant Lot	416219	4773442
1478	Participating Vacant Lot	417713	4774973
1485	Participating Vacant Lot	417791	4776312
1488	Participating Vacant Lot	417834	4774554
1490	Participating Vacant Lot	417867	4775803
1530	Participating Vacant Lot	419143	4776761
1548	Participating Vacant Lot	419827	4775335
1554	Participating Vacant Lot	419873	4776323
1557	Participating Vacant Lot	419885	4773985
1561	Participating Vacant Lot	419913	4774926
1567	Participating Vacant Lot	420001	4777802
1586	Participating Vacant Lot	420637	4769979
1588	Participating Vacant Lot	420793	4769990
1600	Participating Vacant Lot	421560	4769982
1607	Participating Vacant Lot	421861	4774126
1609	Participating Vacant Lot	421862	4774687
1628	Participating Vacant Lot	422044	4777225
1629	Participating Vacant Lot	422051	4777476
1631	Participating Vacant Lot	422099	4778159
1632	Participating Vacant Lot	422109	4779327
1635	Participating Vacant Lot	422087	4778538
1651	Participating Receptor	423994	4780194
1666	Participating Vacant Lot	424057	4779590
2442	Participating Receptor	426209	4778336
2450	Participating Receptor	426207	4778750
2478	Participating Vacant Lot	426081	4778687
2493	Participating Vacant Lot	426236	4778028
2862	Participating Receptor	423988	4778449



ACOUSTICS



NOISE



VIBRATION

**Table A5: Wind Turbine Noise Impact Summary - Non-Participating Receptor Locations  
 Suncor Cedar Point Wind Power Project, Cumulative Impact**

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
4	Non-Participating Receptor	4.5	1178	Suncor WTG51	34.5	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0
6	Non-Participating Receptor	4.5	550	Suncor WTG31	39.2	39.2	39.2	39.2	39.2	40.0	43.0	45.0	49.0	51.0
7	Non-Participating Receptor	4.5	909	Suncor WTG31	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
9	Non-Participating Receptor	4.5	1646	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
10	Non-Participating Receptor	4.5	867	Suncor WTG2	38.3	38.5	38.5	38.4	38.4	40.0	43.0	45.0	49.0	51.0
68	Non-Participating Receptor	4.5	1938	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
69	Non-Participating Receptor	4.5	1823	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
72	Non-Participating Receptor	4.5	1502	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
73	Non-Participating Receptor	4.5	1714	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
74	Non-Participating Receptor	4.5	1521	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
76	Non-Participating Receptor	4.5	1886	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
78	Non-Participating Receptor	4.5	1259	Suncor WTG54	30.2	30.2	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0
79	Non-Participating Receptor	4.5	1445	Suncor WTG48	32.0	32.0	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0
81	Non-Participating Receptor	4.5	1004	Suncor WTG54	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
86	Non-Participating Receptor	4.5	1039	Suncor WTG53	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0
87	Non-Participating Receptor	4.5	909	Suncor WTG53	34.4	34.4	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0
89	Non-Participating Receptor	4.5	777	Suncor WTG53	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
92	Non-Participating Receptor	4.5	1554	Suncor WTG53	-	-	-	-	-	-	-	-	-	-
93	Non-Participating Receptor	4.5	726	Suncor WTG53	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
94	Non-Participating Receptor	4.5	886	Suncor WTG44	35.0	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0
95	Non-Participating Receptor	4.5	1959	Suncor WTG50	-	-	-	-	-	-	-	-	-	-
96	Non-Participating Receptor	4.5	611	Suncor WTG44	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
99	Non-Participating Receptor	4.5	938	Suncor WTG39	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
100	Non-Participating Receptor	4.5	825	Suncor WTG41	36.8	36.8	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0
102	Non-Participating Receptor	4.5	766	Suncor WTG43	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
103	Non-Participating Receptor	4.5	968	Suncor WTG43	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
104	Non-Participating Receptor	4.5	1301	Suncor WTG43	34.8	34.8	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0
105	Non-Participating Receptor	4.5	1439	Suncor WTG69	34.5	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0
106	Non-Participating Receptor	4.5	911	Suncor WTG40	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
107	Non-Participating Receptor	4.5	1024	Suncor WTG69	35.8	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0
108	Non-Participating Receptor	4.5	892	Suncor WTG40	36.4	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0
109	Non-Participating Receptor	4.5	763	Suncor WTG40	37.2	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0
110	Non-Participating Receptor	4.5	720	Suncor WTG40	37.7	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0
112	Non-Participating Receptor	4.5	862	Suncor WTG80	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
114	Non-Participating Receptor	4.5	608	Suncor WTG34	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
117	Non-Participating Receptor	4.5	911	Suncor WTG70	38.2	38.2	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0
120	Non-Participating Receptor	4.5	1184	Suncor WTG46	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
121	Non-Participating Receptor	4.5	651	Suncor WTG34	38.6	38.6	38.6	38.6	38.6	40.0	43.0	45.0	49.0	51.0
122	Non-Participating Receptor	4.5	811	Suncor WTG34	36.9	37.0	37.0	37.0	36.9	40.0	43.0	45.0	49.0	51.0
123	Non-Participating Receptor	4.5	812	Suncor WTG81	37.2	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0
124	Non-Participating Receptor	4.5	728	Suncor WTG70	39.1	39.1	39.1	39.1	39.1	40.0	43.0	45.0	49.0	51.0
125	Non-Participating Receptor	4.5	1006	Suncor WTG81	36.4	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0
126	Non-Participating Receptor	4.5	790	Suncor WTG34	38.5	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0
127	Non-Participating Receptor	4.5	1197	Suncor WTG46	32.3	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0
129	Non-Participating Receptor	4.5	1058	Suncor WTG46	32.9	32.9	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0
130	Non-Participating Receptor	4.5	811	Suncor WTG72	38.5	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0
132	Non-Participating Receptor	4.5	810	Suncor WTG71	35.8	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0
135	Non-Participating Receptor	4.5	852	Suncor WTG72	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
136	Non-Participating Receptor	4.5	1624	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
137	Non-Participating Receptor	4.5	574	Suncor WTG72	38.8	38.8	38.8	38.8	38.8	40.0	43.0	45.0	49.0	51.0
138	Non-Participating Receptor	4.5	1022	Suncor WTG46	33.7	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0
142	Non-Participating Receptor	4.5	1904	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
143	Non-Participating Receptor	4.5	1508	Suncor WTG71	-	-	-	-	-	-	-	-	-	-
144	Non-Participating Receptor	4.5	1902	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
145	Non-Participating Receptor	4.5	1807	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
146	Non-Participating Receptor	4.5	1821	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
147	Non-Participating Receptor	4.5	1713	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
148	Non-Participating Receptor	4.5	1679	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
149	Non-Participating Receptor	4.5	1771	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
150	Non-Participating Receptor	4.5	1333	Suncor WTG27	33.7	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0
151	Non-Participating Receptor	4.5	1665	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
152	Non-Participating Receptor	4.5	603	Suncor WTG27	38.4	38.5	38.5	38.5	38.4	40.0	43.0	45.0	49.0	51.0

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
156	Non-Participating Receptor	4.5	1454	Suncor WTG27	32.4	32.5	32.5	32.5	32.4	40.0	43.0	45.0	49.0	51.0
160	Non-Participating Receptor	4.5	1037	Suncor WTG27	34.9	34.9	35.0	34.9	34.9	40.0	43.0	45.0	49.0	51.0
163	Non-Participating Receptor	4.5	1367	Suncor WTG27	33.7	33.8	33.9	33.8	33.7	40.0	43.0	45.0	49.0	51.0
177	Non-Participating Receptor	4.5	1922	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
179	Non-Participating Receptor	4.5	1830	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
182	Non-Participating Receptor	4.5	1753	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
183	Non-Participating Receptor	4.5	1901	Suncor WTG10	-	-	-	-	-	-	-	-	-	-
186	Non-Participating Receptor	4.5	797	Suncor WTG18	36.9	36.9	36.9	36.9	36.9	40.0	43.0	45.0	49.0	51.0
187	Non-Participating Receptor	4.5	787	Suncor WTG18	37.0	37.0	37.0	37.0	37.0	40.0	43.0	45.0	49.0	51.0
188	Non-Participating Receptor	4.5	765	Suncor WTG18	37.5	37.5	37.6	37.5	37.5	40.0	43.0	45.0	49.0	51.0
189	Non-Participating Receptor	4.5	820	Suncor WTG17	38.2	38.2	38.3	38.2	38.2	40.0	43.0	45.0	49.0	51.0
192	Non-Participating Receptor	4.5	805	Suncor WTG17	38.3	38.3	38.4	38.3	38.3	40.0	43.0	45.0	49.0	51.0
194	Non-Participating Receptor	4.5	1686	Suncor WTG7	-	-	-	-	-	-	-	-	-	-
196	Non-Participating Receptor	4.5	1009	Suncor WTG10	36.3	36.9	37.2	36.8	36.4	40.0	43.0	45.0	49.0	51.0
198	Non-Participating Receptor	4.5	1185	Suncor WTG7	36.1	36.9	37.3	36.7	36.2	40.0	43.0	45.0	49.0	51.0
199	Non-Participating Receptor	4.5	1867	Suncor WTG7	-	-	-	-	-	-	-	-	-	-
200	Non-Participating Receptor	4.5	1021	Suncor WTG29	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
201	Non-Participating Receptor	4.5	889	Suncor WTG20	35.3	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0
202	Non-Participating Receptor	4.5	866	Suncor WTG20	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
203	Non-Participating Receptor	4.5	624	Suncor WTG7	38.5	39.0	39.2	38.9	38.6	40.0	43.0	45.0	49.0	51.0
206	Non-Participating Receptor	4.5	1049	Suncor WTG29	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
207	Non-Participating Receptor	4.5	1091	Suncor WTG29	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
208	Non-Participating Receptor	4.5	1019	Suncor WTG29	34.1	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0
209	Non-Participating Receptor	4.5	974	Suncor WTG20	36.4	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0
210	Non-Participating Receptor	4.5	1082	Suncor WTG20	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
218	Non-Participating Receptor	4.5	775	Suncor WTG16	38.4	38.4	38.4	38.4	38.4	40.0	43.0	45.0	49.0	51.0
219	Non-Participating Receptor	4.5	931	Suncor WTG7	38.1	38.6	38.8	38.5	38.2	40.0	43.0	45.0	49.0	51.0
221	Non-Participating Receptor	4.5	1103	Suncor WTG8	36.0	36.1	36.2	36.1	36.0	40.0	43.0	45.0	49.0	51.0
222	Non-Participating Receptor	4.5	853	Suncor WTG7	38.7	39.0	39.2	39.0	38.8	40.0	43.0	45.0	49.0	51.0
223	Non-Participating Receptor	4.5	903	Suncor WTG9	36.4	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0
224	Non-Participating Receptor	4.5	844	Suncor WTG6	38.9	39.1	39.3	39.1	38.9	40.0	43.0	45.0	49.0	51.0
225	Non-Participating Receptor	4.5	1259	Suncor WTG26	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0
226	Non-Participating Receptor	4.5	1143	Suncor WTG26	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
227	Non-Participating Receptor	4.5	1049	Suncor WTG26	38.3	38.3	38.3	38.3	38.3	40.0	43.0	45.0	49.0	51.0
228	Non-Participating Receptor	4.5	1289	Suncor WTG26	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
229	Non-Participating Receptor	4.5	1352	Suncor WTG26	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
230	Non-Participating Receptor	4.5	1229	Suncor WTG26	39.1	39.1	39.1	39.1	39.1	40.0	43.0	45.0	49.0	51.0
231	Non-Participating Receptor	4.5	877	Suncor WTG8	37.0	37.1	37.1	37.0	37.0	40.0	43.0	45.0	49.0	51.0
232	Non-Participating Receptor	4.5	1420	Suncor WTG26	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
235	Non-Participating Receptor	4.5	1300	Suncor WTG26	38.8	38.8	38.8	38.8	38.8	40.0	43.0	45.0	49.0	51.0
236	Non-Participating Receptor	4.5	1582	Suncor WTG26	-	-	-	-	-	-	-	-	-	-
239	Non-Participating Receptor	4.5	1173	Suncor WTG9	37.7	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0
240	Non-Participating Receptor	4.5	762	Suncor WTG1	38.4	38.5	38.6	38.5	38.4	40.0	43.0	45.0	49.0	51.0
241	Non-Participating Receptor	4.5	1266	Suncor WTG8	36.5	36.6	36.6	36.6	36.5	40.0	43.0	45.0	49.0	51.0
243	Non-Participating Receptor	4.5	1294	Suncor WTG1	38.3	38.5	38.6	38.4	38.3	40.0	43.0	45.0	49.0	51.0
252	Non-Participating Receptor	4.5	1643	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
258	Non-Participating Receptor	4.5	1589	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
260	Non-Participating Receptor	4.5	749	Suncor WTG51	36.9	36.9	36.9	36.9	36.9	40.0	43.0	45.0	49.0	51.0
261	Non-Participating Receptor	4.5	754	Suncor WTG34	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
262	Non-Participating Receptor	4.5	1179	Suncor WTG46	32.9	32.9	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0
263	Non-Participating Receptor	4.5	761	Suncor WTG71	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
264	Non-Participating Receptor	4.5	1218	Suncor WTG72	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
265	Non-Participating Receptor	4.5	1226	Suncor WTG27	34.2	34.3	34.3	34.3	34.2	40.0	43.0	45.0	49.0	51.0
270	Non-Participating Receptor	4.5	794	Suncor WTG17	38.3	38.3	38.4	38.3	38.3	40.0	43.0	45.0	49.0	51.0
271	Non-Participating Receptor	4.5	1122	Suncor WTG20	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
273	Non-Participating Receptor	4.5	1036	Suncor WTG13	36.4	36.7	36.9	36.6	36.4	40.0	43.0	45.0	49.0	51.0
275	Non-Participating Receptor	4.5	994	Suncor WTG29	32.9	32.9	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0
276	Non-Participating Receptor	4.5	774	Suncor WTG29	35.6	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0
278	Non-Participating Receptor	4.5	915	Suncor WTG20	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
279	Non-Participating Receptor	4.5	1276	Suncor WTG5	38.6	38.6	38.6	38.6	38.6	40.0	43.0	45.0	49.0	51.0
280	Non-Participating Receptor	4.5	1520	Suncor WTG8	-	-	-	-	-	-	-	-	-	-
281	Non-Participating Receptor	4.5	1575	Suncor WTG8	-	-	-	-	-	-	-	-	-	-
315	Non-Participating Receptor	4.5	1887	Suncor WTG48	-	-	-	-	-	-	-	-	-	-
317	Non-Participating Receptor	4.5	1074	Suncor WTG54	31.7	31.7	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0

Point of Receptor ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
332	Non-Participating Receptor	4.5	1656	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
333	Non-Participating Receptor	4.5	1438	Suncor WTG29	28.9	28.9	28.9	28.9	28.9	40.0	43.0	45.0	49.0	51.0
334	Non-Participating Receptor	4.5	1482	Suncor WTG29	28.6	28.6	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0
335	Non-Participating Receptor	4.5	1108	Suncor WTG29	31.3	31.3	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0
336	Non-Participating Receptor	4.5	1137	Suncor WTG29	31.1	31.1	31.1	31.1	31.1	40.0	43.0	45.0	49.0	51.0
337	Non-Participating Receptor	4.5	1147	Suncor WTG20	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
338	Non-Participating Receptor	4.5	729	Suncor WTG29	35.2	35.2	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0
339	Non-Participating Receptor	4.5	698	Suncor WTG29	35.6	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0
340	Non-Participating Receptor	4.5	662	Suncor WTG29	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
341	Non-Participating Receptor	4.5	1109	Suncor WTG26	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
342	Non-Participating Receptor	4.5	1255	Suncor WTG26	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
343	Non-Participating Receptor	4.5	1371	Suncor WTG26	37.4	37.4	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0
345	Non-Participating Receptor	4.5	1662	Suncor WTG26	-	-	-	-	-	-	-	-	-	-
346	Non-Participating Receptor	4.5	1692	Suncor WTG26	-	-	-	-	-	-	-	-	-	-
350	Non-Participating Receptor	4.5	751	Suncor WTG1	38.4	38.6	38.7	38.6	38.5	40.0	43.0	45.0	49.0	51.0
430	Non-Participating Receptor	4.5	1816	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
431	Non-Participating Receptor	4.5	1767	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
438	Non-Participating Receptor	4.5	1795	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
439	Non-Participating Receptor	4.5	1608	Suncor WTG48	-	-	-	-	-	-	-	-	-	-
440	Non-Participating Receptor	4.5	1372	Suncor WTG54	29.6	29.6	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0
441	Non-Participating Receptor	4.5	1528	Suncor WTG51	-	-	-	-	-	-	-	-	-	-
442	Non-Participating Receptor	4.5	1149	Suncor WTG54	31.2	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0
443	Non-Participating Receptor	4.5	1055	Suncor WTG54	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
446	Non-Participating Receptor	4.5	736	Suncor WTG54	35.5	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0
449	Non-Participating Receptor	4.5	996	Suncor WTG48	35.0	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0
454	Non-Participating Receptor	4.5	1302	Suncor WTG54	31.6	31.6	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0
456	Non-Participating Receptor	4.5	1360	Suncor WTG47	31.2	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0
460	Non-Participating Receptor	4.5	1062	Suncor WTG54	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
473	Non-Participating Receptor	4.5	667	Suncor WTG51	37.6	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0
517	Non-Participating Receptor	4.5	1136	Suncor WTG47	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
541	Non-Participating Receptor	4.5	1387	Suncor WTG47	31.9	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0
647	Non-Participating Receptor	4.5	757	Suncor WTG53	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
769	Non-Participating Receptor	4.5	816	Suncor WTG48	37.3	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0
771	Non-Participating Receptor	4.5	1370	Suncor WTG44	32.5	32.5	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0
774	Non-Participating Receptor	4.5	870	Suncor WTG53	34.5	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0
777	Non-Participating Receptor	4.5	1968	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
779	Non-Participating Receptor	4.5	1611	Suncor WTG53	-	-	-	-	-	-	-	-	-	-
782	Non-Participating Receptor	4.5	1873	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
783	Non-Participating Receptor	4.5	889	Suncor WTG48	37.5	37.5	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0
785	Non-Participating Receptor	4.5	1633	Suncor WTG53	-	-	-	-	-	-	-	-	-	-
786	Non-Participating Receptor	4.5	584	Suncor WTG53	37.8	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0
787	Non-Participating Receptor	4.5	801	Suncor WTG44	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
788	Non-Participating Receptor	4.5	1703	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
789	Non-Participating Receptor	4.5	840	Suncor WTG48	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
790	Non-Participating Receptor	4.5	910	Suncor WTG51	35.7	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0
791	Non-Participating Receptor	4.5	1618	Suncor WTG53	-	-	-	-	-	-	-	-	-	-
792	Non-Participating Receptor	4.5	1083	Suncor WTG51	35.2	35.2	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0
793	Non-Participating Receptor	4.5	1757	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
794	Non-Participating Receptor	4.5	1477	Suncor WTG39	29.9	29.9	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0
795	Non-Participating Receptor	4.5	1665	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
796	Non-Participating Receptor	4.5	1178	Suncor WTG51	34.8	34.8	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0
797	Non-Participating Receptor	4.5	981	Suncor WTG53	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
798	Non-Participating Receptor	4.5	1638	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
799	Non-Participating Receptor	4.5	1553	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
800	Non-Participating Receptor	4.5	1539	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
801	Non-Participating Receptor	4.5	1533	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
802	Non-Participating Receptor	4.5	931	Suncor WTG50	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
803	Non-Participating Receptor	4.5	944	Suncor WTG50	34.8	34.8	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0
804	Non-Participating Receptor	4.5	726	Suncor WTG44	37.0	37.0	37.0	37.0	37.0	40.0	43.0	45.0	49.0	51.0
805	Non-Participating Receptor	4.5	876	Suncor WTG50	34.9	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0
806	Non-Participating Receptor	4.5	781	Suncor WTG44	37.2	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0
808	Non-Participating Receptor	4.5	1455	Suncor WTG43	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
809	Non-Participating Receptor	4.5	1250	Suncor WTG43	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
810	Non-Participating Receptor	4.5	948	Suncor WTG41	36.0	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0

Point of Receptor ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
812	Non-Participating Receptor	4.5	594	Suncor WTG50	38.6	38.6	38.6	38.6	38.6	40.0	43.0	45.0	49.0	51.0
813	Non-Participating Receptor	4.5	1469	Suncor WTG43	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
814	Non-Participating Receptor	4.5	1285	Suncor WTG43	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
815	Non-Participating Receptor	4.5	1359	Suncor WTG39	31.5	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0
816	Non-Participating Receptor	4.5	1097	Suncor WTG43	34.9	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0
817	Non-Participating Receptor	4.5	1099	Suncor WTG50	35.0	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0
818	Non-Participating Receptor	4.5	1177	Suncor WTG39	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
819	Non-Participating Receptor	4.5	1324	Suncor WTG39	31.9	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0
820	Non-Participating Receptor	4.5	1140	Suncor WTG41	35.5	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0
821	Non-Participating Receptor	4.5	715	Suncor WTG79	38.1	38.1	38.1	38.1	38.1	40.0	43.0	45.0	49.0	51.0
822	Non-Participating Receptor	4.5	1387	Suncor WTG69	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
823	Non-Participating Receptor	4.5	1237	Suncor WTG39	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
824	Non-Participating Receptor	4.5	1086	Suncor WTG37	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
825	Non-Participating Receptor	4.5	1503	Suncor WTG69	-	-	-	-	-	-	-	-	-	-
826	Non-Participating Receptor	4.5	1845	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
827	Non-Participating Receptor	4.5	883	Suncor WTG37	35.5	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0
829	Non-Participating Receptor	4.5	1255	Suncor WTG79	35.2	35.2	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0
832	Non-Participating Receptor	4.5	1030	Suncor WTG37	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
833	Non-Participating Receptor	4.5	778	Suncor WTG69	37.2	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0
834	Non-Participating Receptor	4.5	1200	Suncor WTG80	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
835	Non-Participating Receptor	4.5	851	Suncor WTG42	37.1	37.1	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0
836	Non-Participating Receptor	4.5	1053	Suncor WTG40	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
837	Non-Participating Receptor	4.5	764	Suncor WTG80	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
838	Non-Participating Receptor	4.5	827	Suncor WTG81	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
840	Non-Participating Receptor	4.5	1152	Suncor WTG81	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
842	Non-Participating Receptor	4.5	1011	Suncor WTG71	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
843	Non-Participating Receptor	4.5	735	Suncor WTG34	38.4	38.4	38.4	38.4	38.4	40.0	43.0	45.0	49.0	51.0
846	Non-Participating Receptor	4.5	781	Suncor WTG34	38.8	38.8	38.8	38.8	38.8	40.0	43.0	45.0	49.0	51.0
847	Non-Participating Receptor	4.5	1059	Suncor WTG46	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
849	Non-Participating Receptor	4.5	765	Suncor WTG35	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
850	Non-Participating Receptor	4.5	842	Suncor WTG34	38.7	38.7	38.7	38.7	38.7	40.0	43.0	45.0	49.0	51.0
851	Non-Participating Receptor	4.5	1255	Suncor WTG30	34.5	34.7	34.7	34.6	34.5	40.0	43.0	45.0	49.0	51.0
852	Non-Participating Receptor	4.5	1251	Suncor WTG30	34.2	34.4	34.6	34.4	34.3	40.0	43.0	45.0	49.0	51.0
853	Non-Participating Receptor	4.5	1181	Suncor WTG46	31.9	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0
854	Non-Participating Receptor	4.5	1010	Suncor WTG46	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
855	Non-Participating Receptor	4.5	797	Suncor WTG72	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
857	Non-Participating Receptor	4.5	582	Suncor WTG71	37.8	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0
858	Non-Participating Receptor	4.5	1371	Suncor WTG30	34.0	34.3	34.5	34.3	34.1	40.0	43.0	45.0	49.0	51.0
859	Non-Participating Receptor	4.5	963	Suncor WTG31	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0
860	Non-Participating Receptor	4.5	1231	Suncor WTG46	31.5	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0
861	Non-Participating Receptor	4.5	1157	Suncor WTG46	32.0	32.0	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0
862	Non-Participating Receptor	4.5	1171	Suncor WTG46	31.9	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0
863	Non-Participating Receptor	4.5	1083	Suncor WTG46	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
864	Non-Participating Receptor	4.5	799	Suncor WTG46	36.0	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0
865	Non-Participating Receptor	4.5	924	Suncor WTG46	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
866	Non-Participating Receptor	4.5	1037	Suncor WTG70	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
867	Non-Participating Receptor	4.5	1509	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
868	Non-Participating Receptor	4.5	1223	Suncor WTG71	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
869	Non-Participating Receptor	4.5	1443	Suncor WTG46	30.1	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0
870	Non-Participating Receptor	4.5	852	Suncor WTG72	36.4	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0
871	Non-Participating Receptor	4.5	1431	Suncor WTG46	30.2	30.2	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0
873	Non-Participating Receptor	4.5	857	Suncor WTG71	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
874	Non-Participating Receptor	4.5	1009	Suncor WTG31	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
875	Non-Participating Receptor	4.5	1349	Suncor WTG23	35.5	36.0	36.2	35.8	35.5	40.0	43.0	45.0	49.0	51.0
877	Non-Participating Receptor	4.5	1268	Suncor WTG23	36.4	36.9	37.3	36.8	36.4	40.0	43.0	45.0	49.0	51.0
878	Non-Participating Receptor	4.5	1316	Suncor WTG72	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
879	Non-Participating Receptor	4.5	1969	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
880	Non-Participating Receptor	4.5	1089	Suncor WTG71	32.7	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0
881	Non-Participating Receptor	4.5	747	Suncor WTG31	38.7	38.8	38.8	38.8	38.7	40.0	43.0	45.0	49.0	51.0
882	Non-Participating Receptor	4.5	1255	Suncor WTG72	32.4	32.4	32.4	32.4	32.4	40.0	43.0	45.0	49.0	51.0
883	Non-Participating Receptor	4.5	1264	Suncor WTG23	37.4	38.1	38.4	37.9	37.5	40.0	43.0	45.0	49.0	51.0
884	Non-Participating Receptor	4.5	1467	Suncor WTG23	37.5	38.3	38.7	38.1	37.6	40.0	43.0	45.0	49.0	51.0
885	Non-Participating Receptor	4.5	814	Suncor WTG31	38.0	38.1	38.1	38.1	38.0	40.0	43.0	45.0	49.0	51.0
886	Non-Participating Receptor	4.5	1299	Suncor WTG31	33.7	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0



Point of Receptor ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
887	Non-Participating Receptor	4.5	1644	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
888	Non-Participating Receptor	4.5	1510	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
889	Non-Participating Receptor	4.5	1596	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
890	Non-Participating Receptor	4.5	1325	Suncor WTG23	39.1	39.8	40.1	39.6	39.1	40.0	43.0	45.0	49.0	51.0
891	Non-Participating Receptor	4.5	1934	Suncor WTG46	-	-	-	-	-	-	-	-	-	-
894	Non-Participating Receptor	4.5	1482	Suncor WTG71	30.4	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0
895	Non-Participating Receptor	4.5	1662	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
896	Non-Participating Receptor	4.5	781	Suncor WTG23	39.1	39.3	39.4	39.3	39.2	40.0	43.0	45.0	49.0	51.0
897	Non-Participating Receptor	4.5	1737	Suncor WTG71	-	-	-	-	-	-	-	-	-	-
898	Non-Participating Receptor	4.5	1839	Suncor WTG21	-	-	-	-	-	-	-	-	-	-
899	Non-Participating Receptor	4.5	1945	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
901	Non-Participating Receptor	4.5	1532	Suncor WTG21	-	-	-	-	-	-	-	-	-	-
905	Non-Participating Receptor	4.5	1393	Suncor WTG27	32.9	33.0	33.0	32.9	32.9	40.0	43.0	45.0	49.0	51.0
906	Non-Participating Receptor	4.5	1393	Suncor WTG27	32.8	32.9	32.9	32.9	32.8	40.0	43.0	45.0	49.0	51.0
907	Non-Participating Receptor	4.5	1886	Suncor WTG21	-	-	-	-	-	-	-	-	-	-
914	Non-Participating Receptor	4.5	1424	Suncor WTG27	32.5	32.6	32.6	32.6	32.5	40.0	43.0	45.0	49.0	51.0
918	Non-Participating Receptor	4.5	808	Suncor WTG27	36.3	36.4	36.4	36.3	36.3	40.0	43.0	45.0	49.0	51.0
922	Non-Participating Receptor	4.5	1072	Suncor WTG27	34.8	34.8	34.9	34.8	34.8	40.0	43.0	45.0	49.0	51.0
924	Non-Participating Receptor	4.5	1641	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
927	Non-Participating Receptor	4.5	1321	Suncor WTG27	33.8	33.9	33.9	33.9	33.8	40.0	43.0	45.0	49.0	51.0
930	Non-Participating Receptor	4.5	1875	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
931	Non-Participating Receptor	4.5	1891	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
938	Non-Participating Receptor	4.5	856	Suncor WTG25	37.5	37.6	37.7	37.6	37.5	40.0	43.0	45.0	49.0	51.0
939	Non-Participating Receptor	4.5	1048	Suncor WTG21	40.0	40.9	41.3	40.7	40.1	40.0	43.0	45.0	49.0	51.0
943	Non-Participating Receptor	4.5	762	Suncor WTG25	38.8	38.9	38.9	38.9	38.8	40.0	43.0	45.0	49.0	51.0
945	Non-Participating Receptor	4.5	900	Suncor WTG22	39.1	39.5	39.7	39.4	39.2	40.0	43.0	45.0	49.0	51.0
946	Non-Participating Receptor	4.5	1366	Suncor WTG10	39.9	41.2	41.8	41.0	40.2	40.0	43.0	45.0	49.0	51.0
947	Non-Participating Receptor	4.5	696	Suncor WTG19	38.6	38.7	38.7	38.7	38.6	40.0	43.0	45.0	49.0	51.0
950	Non-Participating Receptor	4.5	990	Suncor WTG19	39.0	39.1	39.2	39.1	39.0	40.0	43.0	45.0	49.0	51.0
951	Non-Participating Receptor	4.5	1589	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
952	Non-Participating Receptor	4.5	1192	Suncor WTG21	38.9	39.6	39.9	39.4	38.9	40.0	43.0	45.0	49.0	51.0
954	Non-Participating Receptor	4.5	1240	Suncor WTG10	39.4	40.7	41.3	40.4	39.6	40.0	43.0	45.0	49.0	51.0
955	Non-Participating Receptor	4.5	1285	Suncor WTG10	39.4	40.8	41.5	40.5	39.6	40.0	43.0	45.0	49.0	51.0
966	Non-Participating Receptor	4.5	1940	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
976	Non-Participating Receptor	4.5	1112	Suncor WTG18	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
978	Non-Participating Receptor	4.5	1117	Suncor WTG18	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0
983	Non-Participating Receptor	4.5	926	Suncor WTG17	37.6	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0
984	Non-Participating Receptor	4.5	773	Suncor WTG18	37.5	37.5	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0
985	Non-Participating Receptor	4.5	800	Suncor WTG17	38.2	38.2	38.3	38.2	38.2	40.0	43.0	45.0	49.0	51.0
994	Non-Participating Receptor	4.5	600	Suncor WTG18	38.7	38.7	38.7	38.7	38.7	40.0	43.0	45.0	49.0	51.0
996	Non-Participating Receptor	4.5	915	Suncor WTG13	37.1	37.3	37.4	37.2	37.1	40.0	43.0	45.0	49.0	51.0
997	Non-Participating Receptor	4.5	1356	Suncor WTG7	36.4	37.7	38.2	37.4	36.6	40.0	43.0	45.0	49.0	51.0
999	Non-Participating Receptor	4.5	778	Suncor WTG15	37.9	38.0	38.0	38.0	37.9	40.0	43.0	45.0	49.0	51.0
1002	Non-Participating Receptor	4.5	588	Suncor WTG15	38.5	38.6	38.6	38.5	38.5	40.0	43.0	45.0	49.0	51.0
1004	Non-Participating Receptor	4.5	869	Suncor WTG20	35.6	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0
1005	Non-Participating Receptor	4.5	903	Suncor WTG20	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
1020	Non-Participating Receptor	4.5	567	Suncor WTG29	39.3	39.3	39.3	39.3	39.3	40.0	43.0	45.0	49.0	51.0
1023	Non-Participating Receptor	4.5	984	Suncor WTG20	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
1025	Non-Participating Receptor	4.5	724	Suncor WTG15	37.6	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0
1032	Non-Participating Receptor	4.5	1296	Suncor WTG82	35.5	35.6	35.7	35.6	35.5	40.0	43.0	45.0	49.0	51.0
1033	Non-Participating Receptor	4.5	1192	Suncor WTG9	35.5	35.5	35.6	35.5	35.5	40.0	43.0	45.0	49.0	51.0
1035	Non-Participating Receptor	4.5	1157	Suncor WTG26	38.4	38.4	38.4	38.4	38.4	40.0	43.0	45.0	49.0	51.0
1038	Non-Participating Receptor	4.5	921	Suncor WTG26	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
1040	Non-Participating Receptor	4.5	851	Suncor WTG82	37.8	37.9	38.0	37.9	37.8	40.0	43.0	45.0	49.0	51.0
1041	Non-Participating Receptor	4.5	875	Suncor WTG16	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
1043	Non-Participating Receptor	4.5	918	Suncor WTG4	38.3	38.7	39.0	38.6	38.3	40.0	43.0	45.0	49.0	51.0
1044	Non-Participating Receptor	4.5	893	Suncor WTG4	38.1	38.6	38.9	38.5	38.2	40.0	43.0	45.0	49.0	51.0
1051	Non-Participating Receptor	4.5	757	Suncor WTG4	38.4	38.9	39.2	38.8	38.5	40.0	43.0	45.0	49.0	51.0
1052	Non-Participating Receptor	4.5	1119	Suncor WTG4	38.2	39.2	39.7	39.0	38.3	40.0	43.0	45.0	49.0	51.0
1053	Non-Participating Receptor	4.5	894	Suncor WTG8	36.7	36.8	36.8	36.7	36.7	40.0	43.0	45.0	49.0	51.0
1056	Non-Participating Receptor	4.5	1205	Suncor WTG26	39.3	39.3	39.3	39.3	39.3	40.0	43.0	45.0	49.0	51.0
1057	Non-Participating Receptor	4.5	659	Suncor WTG8	37.9	38.0	38.0	38.0	37.9	40.0	43.0	45.0	49.0	51.0
1058	Non-Participating Receptor	4.5	708	Suncor WTG8	37.8	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0
1060	Non-Participating Receptor	4.5	1940	Suncor WTG1	-	-	-	-	-	-	-	-	-	-

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
1071	Non-Participating Receptor	4.5	1968	Suncor WTG1	-	-	-	-	-	-	-	-	-	-
1077	Non-Participating Receptor	4.5	819	Suncor WTG8	36.9	37.0	37.0	37.0	36.9	40.0	43.0	45.0	49.0	51.0
1079	Non-Participating Receptor	4.5	953	Suncor WTG11	38.2	38.2	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0
1083	Non-Participating Receptor	4.5	1865	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1084	Non-Participating Receptor	4.5	1009	Suncor WTG9	37.4	37.4	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0
1086	Non-Participating Receptor	4.5	1506	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1088	Non-Participating Receptor	4.5	1281	Suncor WTG1	39.8	39.9	40.0	39.9	39.8	40.0	43.0	45.0	49.0	51.0
1091	Non-Participating Receptor	4.5	1738	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1092	Non-Participating Receptor	4.5	1170	Suncor WTG8	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0
1097	Non-Participating Receptor	4.5	1311	Suncor WTG9	38.5	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0
1099	Non-Participating Receptor	4.5	1379	Suncor WTG9	37.7	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0
1100	Non-Participating Receptor	7.5	922	Suncor WTG2	38.7	38.8	38.8	38.7	38.7	40.0	43.0	45.0	49.0	51.0
1105	Non-Participating Receptor	4.5	1426	Suncor WTG1	38.8	38.9	38.9	38.8	38.8	40.0	43.0	45.0	49.0	51.0
1133	Non-Participating Receptor	4.5	3202	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
1141	Non-Participating Receptor	4.5	3358	Suncor WTG9	-	-	-	-	-	-	-	-	-	-
1159	Non-Participating Vacant Lot	4.5	1670	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
1160	Non-Participating Vacant Lot	4.5	1386	Suncor WTG54	29.3	29.3	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0
1162	Non-Participating Vacant Lot	4.5	849	Suncor WTG39	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
1165	Non-Participating Vacant Lot	4.5	1282	Suncor WTG39	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
1166	Non-Participating Vacant Lot	4.5	1328	Suncor WTG37	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
1167	Non-Participating Receptor	4.5	1999	Suncor WTG80	-	-	-	-	-	-	-	-	-	-
1174	Non-Participating Vacant Lot	4.5	934	Suncor WTG31	37.7	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0
1246	Non-Participating Receptor	4.5	1620	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
1248	Non-Participating Vacant Lot	4.5	1724	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
1252	Non-Participating Vacant Lot	4.5	1623	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
1255	Non-Participating Receptor	4.5	1645	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
1256	Non-Participating Vacant Lot	4.5	1863	Suncor WTG48	-	-	-	-	-	-	-	-	-	-
1258	Non-Participating Vacant Lot	4.5	1335	Suncor WTG54	29.7	29.7	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0
1264	Non-Participating Vacant Lot	4.5	1041	Suncor WTG54	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
1266	Non-Participating Vacant Lot	4.5	1604	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
1267	Non-Participating Vacant Lot	4.5	1111	Suncor WTG54	31.6	31.6	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0
1269	Non-Participating Vacant Lot	4.5	1058	Suncor WTG54	32.3	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0
1271	Non-Participating Vacant Lot	4.5	1215	Suncor WTG51	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
1273	Non-Participating Vacant Lot	4.5	866	Suncor WTG51	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
1279	Non-Participating Vacant Lot	4.5	1381	Suncor WTG47	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
1280	Non-Participating Vacant Lot	4.5	1272	Suncor WTG53	31.5	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0
1285	Non-Participating Vacant Lot	4.5	1247	Suncor WTG44	33.3	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0
1290	Non-Participating Vacant Lot	4.5	736	Suncor WTG51	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
1291	Non-Participating Vacant Lot	4.5	1753	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
1295	Non-Participating Vacant Lot	4.5	1617	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
1298	Non-Participating Vacant Lot	4.5	726	Suncor WTG44	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0
1302	Non-Participating Vacant Lot	4.5	1494	Suncor WTG43	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
1303	Non-Participating Vacant Lot	4.5	1982	Suncor WTG50	-	-	-	-	-	-	-	-	-	-
1304	Non-Participating Vacant Lot	4.5	1507	Suncor WTG43	-	-	-	-	-	-	-	-	-	-
1308	Non-Participating Vacant Lot	4.5	1248	Suncor WTG43	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
1310	Non-Participating Vacant Lot	4.5	904	Suncor WTG50	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
1315	Non-Participating Receptor	4.5	1980	Suncor WTG79	-	-	-	-	-	-	-	-	-	-
1316	Non-Participating Vacant Lot	4.5	1643	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
1319	Non-Participating Vacant Lot	4.5	702	Suncor WTG39	36.5	36.5	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0
1320	Non-Participating Vacant Lot	4.5	980	Suncor WTG41	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
1321	Non-Participating Vacant Lot	4.5	1515	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
1322	Non-Participating Vacant Lot	4.5	1102	Suncor WTG39	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
1324	Non-Participating Vacant Lot	4.5	1091	Suncor WTG39	33.8	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0
1326	Non-Participating Vacant Lot	4.5	700	Suncor WTG79	37.3	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0
1328	Non-Participating Vacant Lot	4.5	1026	Suncor WTG40	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
1330	Non-Participating Receptor	4.5	1842	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
1332	Non-Participating Vacant Lot	4.5	1108	Suncor WTG37	34.1	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0
1333	Non-Participating Receptor	4.5	1986	Suncor WTG80	-	-	-	-	-	-	-	-	-	-
1334	Non-Participating Vacant Lot	4.5	1116	Suncor WTG69	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
1335	Non-Participating Vacant Lot	4.5	845	Suncor WTG40	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
1337	Non-Participating Vacant Lot	4.5	1947	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
1341	Non-Participating Vacant Lot	4.5	926	Suncor WTG69	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
1342	Non-Participating Vacant Lot	4.5	1662	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
1343	Non-Participating Vacant Lot	4.5	857	Suncor WTG40	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0



Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
1344	Non-Participating Vacant Lot	4.5	713	Suncor WTG80	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
1345	Non-Participating Vacant Lot	4.5	915	Suncor WTG37	35.8	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0
1346	Non-Participating Vacant Lot	4.5	1264	Suncor WTG34	32.3	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0
1347	Non-Participating Vacant Lot	4.5	803	Suncor WTG69	37.1	37.1	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0
1352	Non-Participating Vacant Lot	4.5	1749	Suncor WTG80	-	-	-	-	-	-	-	-	-	-
1356	Non-Participating Vacant Lot	4.5	726	Suncor WTG80	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
1358	Non-Participating Vacant Lot	4.5	1776	Suncor WTG80	-	-	-	-	-	-	-	-	-	-
1359	Non-Participating Vacant Lot	4.5	1100	Suncor WTG80	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
1361	Non-Participating Vacant Lot	4.5	1005	Suncor WTG69	37.7	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0
1362	Non-Participating Vacant Lot	4.5	785	Suncor WTG81	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
1364	Non-Participating Vacant Lot	4.5	792	Suncor WTG34	37.4	37.4	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0
1365	Non-Participating Vacant Lot	4.5	621	Suncor WTG34	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
1367	Non-Participating Vacant Lot	4.5	836	Suncor WTG34	36.1	36.2	36.2	36.2	36.1	40.0	43.0	45.0	49.0	51.0
1368	Non-Participating Vacant Lot	4.5	1410	Suncor WTG34	33.0	33.1	33.1	33.1	33.0	40.0	43.0	45.0	49.0	51.0
1369	Non-Participating Receptor	4.5	1738	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
1371	Non-Participating Vacant Lot	4.5	1265	Suncor WTG46	33.3	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0
1372	Non-Participating Vacant Lot	4.5	1494	Suncor WTG32	32.8	33.0	33.0	32.9	32.8	40.0	43.0	45.0	49.0	51.0
1373	Non-Participating Vacant Lot	4.5	1122	Suncor WTG46	33.8	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0
1374	Non-Participating Vacant Lot	4.5	1609	Suncor WTG32	-	-	-	-	-	-	-	-	-	-
1377	Non-Participating Vacant Lot	4.5	1677	Suncor WTG32	-	-	-	-	-	-	-	-	-	-
1383	Non-Participating Vacant Lot	4.5	749	Suncor WTG71	36.8	36.8	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0
1384	Non-Participating Vacant Lot	4.5	741	Suncor WTG70	38.9	38.9	38.9	38.9	38.9	40.0	43.0	45.0	49.0	51.0
1387	Non-Participating Vacant Lot	4.5	1945	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
1395	Non-Participating Vacant Lot	4.5	646	Suncor WTG72	37.7	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0
1396	Non-Participating Vacant Lot	4.5	937	Suncor WTG31	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
1398	Non-Participating Vacant Lot	4.5	921	Suncor WTG72	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
1399	Non-Participating Vacant Lot	4.5	829	Suncor WTG46	36.4	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0
1400	Non-Participating Vacant Lot	4.5	612	Suncor WTG72	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
1402	Non-Participating Vacant Lot	4.5	1108	Suncor WTG70	34.1	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0
1403	Non-Participating Vacant Lot	4.5	767	Suncor WTG71	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
1404	Non-Participating Vacant Lot	4.5	1290	Suncor WTG35	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
1406	Non-Participating Vacant Lot	4.5	1405	Suncor WTG23	35.1	35.5	35.8	35.4	35.1	40.0	43.0	45.0	49.0	51.0
1407	Non-Participating Vacant Lot	4.5	1427	Suncor WTG35	33.8	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0
1408	Non-Participating Vacant Lot	4.5	942	Suncor WTG71	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
1409	Non-Participating Vacant Lot	4.5	1383	Suncor WTG23	35.8	36.5	36.7	36.3	35.9	40.0	43.0	45.0	49.0	51.0
1413	Non-Participating Vacant Lot	4.5	1364	Suncor WTG23	36.6	37.2	37.5	37.0	36.6	40.0	43.0	45.0	49.0	51.0
1414	Non-Participating Vacant Lot	4.5	676	Suncor WTG31	39.3	39.3	39.4	39.3	39.3	40.0	43.0	45.0	49.0	51.0
1418	Non-Participating Vacant Lot	4.5	1277	Suncor WTG23	38.2	38.8	39.2	38.6	38.3	40.0	43.0	45.0	49.0	51.0
1420	Non-Participating Vacant Lot	4.5	1324	Suncor WTG71	31.3	31.3	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0
1422	Non-Participating Vacant Lot	4.5	1557	Suncor WTG71	-	-	-	-	-	-	-	-	-	-
1424	Non-Participating Vacant Lot	4.5	1487	Suncor WTG31	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
1425	Non-Participating Vacant Lot	4.5	828	Suncor WTG27	37.1	37.1	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0
1426	Non-Participating Vacant Lot	4.5	1602	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
1427	Non-Participating Vacant Lot	4.5	712	Suncor WTG27	37.8	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0
1428	Non-Participating Vacant Lot	4.5	1511	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
1429	Non-Participating Vacant Lot	4.5	1790	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
1430	Non-Participating Vacant Lot	4.5	613	Suncor WTG27	39.9	39.9	40.0	39.9	39.9	40.0	43.0	45.0	49.0	51.0
1431	Non-Participating Vacant Lot	4.5	751	Suncor WTG27	39.4	39.5	39.6	39.5	39.4	40.0	43.0	45.0	49.0	51.0
1435	Non-Participating Vacant Lot	4.5	866	Suncor WTG24	39.2	39.3	39.4	39.3	39.2	40.0	43.0	45.0	49.0	51.0
1436	Non-Participating Vacant Lot	4.5	1717	Suncor WTG71	-	-	-	-	-	-	-	-	-	-
1437	Non-Participating Vacant Lot	4.5	746	Suncor WTG24	39.9	40.0	40.1	40.0	39.9	40.0	43.0	45.0	49.0	51.0
1441	Non-Participating Vacant Lot	4.5	1977	Suncor WTG71	-	-	-	-	-	-	-	-	-	-
1442	Non-Participating Vacant Lot	4.5	1990	Suncor WTG21	-	-	-	-	-	-	-	-	-	-
1446	Non-Participating Vacant Lot	4.5	773	Suncor WTG27	36.5	36.5	36.6	36.5	36.5	40.0	43.0	45.0	49.0	51.0
1449	Non-Participating Vacant Lot	4.5	666	Suncor WTG27	37.5	37.5	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0
1462	Non-Participating Vacant Lot	4.5	1778	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
1474	Non-Participating Vacant Lot	4.5	1706	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
1480	Non-Participating Vacant Lot	4.5	787	Suncor WTG19	38.5	38.6	38.6	38.6	38.5	40.0	43.0	45.0	49.0	51.0
1483	Non-Participating Vacant Lot	4.5	1377	Suncor WTG10	40.0	41.3	41.9	41.0	40.2	40.0	43.0	45.0	49.0	51.0
1484	Non-Participating Vacant Lot	4.5	1195	Suncor WTG21	39.4	40.3	40.8	40.1	39.5	40.0	43.0	45.0	49.0	51.0
1486	Non-Participating Vacant Lot	4.5	1235	Suncor WTG19	34.6	34.6	34.7	34.6	34.6	40.0	43.0	45.0	49.0	51.0
1487	Non-Participating Vacant Lot	4.5	902	Suncor WTG19	36.7	36.8	36.8	36.7	36.7	40.0	43.0	45.0	49.0	51.0
1489	Non-Participating Vacant Lot	4.5	728	Suncor WTG19	39.3	39.4	39.5	39.4	39.3	40.0	43.0	45.0	49.0	51.0
1491	Non-Participating Vacant Lot	4.5	1310	Suncor WTG10	39.1	40.1	40.5	39.8	39.2	40.0	43.0	45.0	49.0	51.0

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
1492	Non-Participating Vacant Lot	4.5	1456	Suncor WTG10	39.5	41.1	41.7	40.7	39.7	40.0	43.0	45.0	49.0	51.0
1493	Non-Participating Vacant Lot	4.5	1727	Suncor WTG10	-	-	-	-	-	-	-	-	-	-
1520	Non-Participating Vacant Lot	4.5	1880	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
1522	Non-Participating Vacant Lot	4.5	1596	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
1525	Non-Participating Vacant Lot	4.5	1297	Suncor WTG19	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
1531	Non-Participating Vacant Lot	4.5	1049	Suncor WTG10	35.8	36.8	37.3	36.6	35.9	40.0	43.0	45.0	49.0	51.0
1534	Non-Participating Vacant Lot	4.5	1787	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
1537	Non-Participating Vacant Lot	4.5	1392	Suncor WTG29	29.2	29.2	29.2	29.2	29.2	40.0	43.0	45.0	49.0	51.0
1538	Non-Participating Vacant Lot	4.5	661	Suncor WTG17	38.8	38.8	38.8	38.8	38.8	40.0	43.0	45.0	49.0	51.0
1539	Non-Participating Vacant Lot	4.5	1269	Suncor WTG29	30.0	30.0	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0
1544	Non-Participating Receptor	4.5	876	Suncor WTG29	33.4	33.4	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0
1545	Non-Participating Vacant Lot	4.5	1284	Suncor WTG20	33.3	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0
1549	Non-Participating Vacant Lot	4.5	975	Suncor WTG18	35.7	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0
1550	Non-Participating Vacant Lot	4.5	1050	Suncor WTG20	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
1552	Non-Participating Vacant Lot	4.5	665	Suncor WTG13	38.3	38.5	38.6	38.4	38.3	40.0	43.0	45.0	49.0	51.0
1553	Non-Participating Vacant Lot	4.5	812	Suncor WTG18	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
1555	Non-Participating Vacant Lot	4.5	904	Suncor WTG29	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
1556	Non-Participating Vacant Lot	4.5	1353	Suncor WTG10	35.9	36.8	37.4	36.6	36.0	40.0	43.0	45.0	49.0	51.0
1558	Non-Participating Vacant Lot	4.5	1177	Suncor WTG20	33.7	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0
1559	Non-Participating Vacant Lot	4.5	1141	Suncor WTG10	36.0	36.7	37.2	36.6	36.0	40.0	43.0	45.0	49.0	51.0
1560	Non-Participating Vacant Lot	4.5	996	Suncor WTG10	36.2	36.9	37.2	36.7	36.3	40.0	43.0	45.0	49.0	51.0
1563	Non-Participating Vacant Lot	4.5	895	Suncor WTG17	37.5	37.6	37.7	37.6	37.5	40.0	43.0	45.0	49.0	51.0
1565	Non-Participating Vacant Lot	4.5	728	Suncor WTG13	37.8	38.0	38.1	37.9	37.8	40.0	43.0	45.0	49.0	51.0
1566	Non-Participating Vacant Lot	4.5	834	Suncor WTG10	37.1	37.4	37.7	37.3	37.1	40.0	43.0	45.0	49.0	51.0
1568	Non-Participating Vacant Lot	4.5	804	Suncor WTG29	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
1569	Non-Participating Vacant Lot	4.5	1258	Suncor WTG7	36.1	37.1	37.6	36.8	36.2	40.0	43.0	45.0	49.0	51.0
1570	Non-Participating Vacant Lot	4.5	1578	Suncor WTG7	-	-	-	-	-	-	-	-	-	-
1573	Non-Participating Vacant Lot	4.5	752	Suncor WTG29	34.9	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0
1575	Non-Participating Vacant Lot	4.5	984	Suncor WTG20	34.7	34.7	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0
1578	Non-Participating Vacant Lot	4.5	659	Suncor WTG29	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
1581	Non-Participating Vacant Lot	4.5	758	Suncor WTG29	35.0	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0
1584	Non-Participating Vacant Lot	4.5	753	Suncor WTG20	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
1587	Non-Participating Vacant Lot	4.5	553	Suncor WTG15	38.7	38.7	38.7	38.7	38.7	40.0	43.0	45.0	49.0	51.0
1594	Non-Participating Vacant Lot	4.5	1720	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
1598	Non-Participating Vacant Lot	4.5	1079	Suncor WTG20	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
1599	Non-Participating Vacant Lot	4.5	989	Suncor WTG26	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
1602	Non-Participating Vacant Lot	4.5	1118	Suncor WTG26	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0
1603	Non-Participating Vacant Lot	4.5	1000	Suncor WTG26	34.4	34.4	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0
1605	Non-Participating Vacant Lot	4.5	948	Suncor WTG20	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
1608	Non-Participating Vacant Lot	4.5	1036	Suncor WTG26	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
1610	Non-Participating Vacant Lot	4.5	958	Suncor WTG26	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
1611	Non-Participating Vacant Lot	4.5	879	Suncor WTG11	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0
1612	Non-Participating Vacant Lot	4.5	1081	Suncor WTG20	39.1	39.1	39.1	39.1	39.1	40.0	43.0	45.0	49.0	51.0
1613	Non-Participating Vacant Lot	4.5	1169	Suncor WTG26	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0
1614	Non-Participating Vacant Lot	4.5	991	Suncor WTG82	36.9	37.0	37.1	37.0	36.9	40.0	43.0	45.0	49.0	51.0
1615	Non-Participating Vacant Lot	4.5	1072	Suncor WTG20	38.2	38.2	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0
1616	Non-Participating Vacant Lot	4.5	888	Suncor WTG16	38.4	38.4	38.4	38.4	38.4	40.0	43.0	45.0	49.0	51.0
1617	Non-Participating Vacant Lot	4.5	795	Suncor WTG16	38.4	38.4	38.4	38.4	38.4	40.0	43.0	45.0	49.0	51.0
1618	Non-Participating Vacant Lot	4.5	1640	Suncor WTG1	-	-	-	-	-	-	-	-	-	-
1619	Non-Participating Vacant Lot	4.5	1053	Suncor WTG8	36.3	36.4	36.5	36.4	36.3	40.0	43.0	45.0	49.0	51.0
1620	Non-Participating Vacant Lot	4.5	780	Suncor WTG7	38.9	39.2	39.3	39.1	38.9	40.0	43.0	45.0	49.0	51.0
1621	Non-Participating Vacant Lot	4.5	782	Suncor WTG11	37.8	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0
1622	Non-Participating Vacant Lot	4.5	1347	Suncor WTG1	39.3	40.7	41.4	40.4	39.5	40.0	43.0	45.0	49.0	51.0
1623	Non-Participating Vacant Lot	4.5	1092	Suncor WTG26	34.1	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0
1624	Non-Participating Vacant Lot	4.5	918	Suncor WTG4	38.0	38.7	39.1	38.6	38.1	40.0	43.0	45.0	49.0	51.0
1625	Non-Participating Vacant Lot	4.5	1121	Suncor WTG4	38.2	39.2	39.7	39.0	38.3	40.0	43.0	45.0	49.0	51.0
1626	Non-Participating Vacant Lot	4.5	1101	Suncor WTG26	39.4	39.4	39.4	39.4	39.4	40.0	43.0	45.0	49.0	51.0
1627	Non-Participating Vacant Lot	4.5	1291	Suncor WTG1	38.7	40.0	40.6	39.7	38.9	40.0	43.0	45.0	49.0	51.0
1630	Non-Participating Vacant Lot	4.5	749	Suncor WTG6	39.4	39.5	39.6	39.5	39.4	40.0	43.0	45.0	49.0	51.0
1634	Non-Participating Vacant Lot	4.5	1087	Suncor WTG1	38.3	39.5	40.0	39.2	38.5	40.0	43.0	45.0	49.0	51.0
1636	Non-Participating Vacant Lot	4.5	1269	Suncor WTG26	37.3	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0
1642	Non-Participating Vacant Lot	4.5	1580	Suncor WTG26	-	-	-	-	-	-	-	-	-	-
1643	Non-Participating Vacant Lot	4.5	1475	Suncor WTG26	38.8	38.8	38.8	38.8	38.8	40.0	43.0	45.0	49.0	51.0
1646	Non-Participating Vacant Lot	4.5	1007	Suncor WTG11	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
1648	Non-Participating Vacant Lot	4.5	1724	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1649	Non-Participating Vacant Lot	4.5	1596	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1650	Non-Participating Vacant Lot	4.5	1094	Suncor WTG9	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
1652	Non-Participating Vacant Lot	4.5	1078	Suncor WTG9	37.3	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0
1654	Non-Participating Vacant Lot	4.5	1322	Suncor WTG9	35.8	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0
1657	Non-Participating Vacant Lot	4.5	1244	Suncor WTG8	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
1659	Non-Participating Vacant Lot	4.5	883	Suncor WTG5	38.4	38.4	38.5	38.4	38.4	40.0	43.0	45.0	49.0	51.0
1660	Non-Participating Vacant Lot	4.5	1161	Suncor WTG5	38.0	38.1	38.1	38.0	38.0	40.0	43.0	45.0	49.0	51.0
1661	Non-Participating Vacant Lot	4.5	1614	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1663	Non-Participating Vacant Lot	4.5	1435	Suncor WTG11	38.5	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0
1664	Non-Participating Vacant Lot	4.5	1287	Suncor WTG9	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
1665	Non-Participating Vacant Lot	4.5	913	Suncor WTG1	38.2	38.4	38.4	38.3	38.2	40.0	43.0	45.0	49.0	51.0
1667	Non-Participating Vacant Lot	4.5	1306	Suncor WTG9	36.0	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0
1668	Non-Participating Vacant Lot	4.5	1411	Suncor WTG9	35.7	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0
1669	Non-Participating Vacant Lot	4.5	1338	Suncor WTG8	35.8	35.9	35.9	35.9	35.8	40.0	43.0	45.0	49.0	51.0
1670	Non-Participating Vacant Lot	4.5	1242	Suncor WTG8	37.7	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0
1671	Non-Participating Vacant Lot	4.5	1094	Suncor WTG5	38.8	38.9	38.9	38.9	38.8	40.0	43.0	45.0	49.0	51.0
1672	Non-Participating Vacant Lot	4.5	866	Suncor WTG2	38.2	38.3	38.4	38.3	38.2	40.0	43.0	45.0	49.0	51.0
1673	Non-Participating Vacant Lot	4.5	836	Suncor WTG1	38.4	38.5	38.6	38.5	38.4	40.0	43.0	45.0	49.0	51.0
1675	Non-Participating Vacant Lot	4.5	989	Suncor WTG1	38.0	38.1	38.2	38.1	38.0	40.0	43.0	45.0	49.0	51.0
1773	Non-Participating Vacant Lot	4.5	4839	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
1785	Occupied School	4.5	1207	Suncor WTG43	34.4	34.4	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0
1786	Non-Participating Receptor	4.5	999	Suncor WTG8	36.4	36.5	36.6	36.5	36.4	40.0	43.0	45.0	49.0	51.0
1787	Non-Participating Receptor	4.5	1261	Suncor WTG43	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
1788	Non-Participating Vacant Lot	4.5	1310	Suncor WTG43	34.1	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0
1789	Non-Participating Receptor	4.5	1977	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
1790	Non-Participating Vacant Lot	4.5	833	Suncor WTG13	37.1	37.4	37.5	37.3	37.1	40.0	43.0	45.0	49.0	51.0
1791	Non-Participating Vacant Lot	4.5	1363	Suncor WTG10	39.9	41.3	42.0	41.1	40.1	40.0	43.0	45.0	49.0	51.0
1792	Non-Participating Vacant Lot	4.5	1185	Suncor WTG4	38.3	39.4	39.9	39.1	38.4	40.0	43.0	45.0	49.0	51.0
1793	Non-Participating Vacant Lot	4.5	1917	Suncor WTG7	-	-	-	-	-	-	-	-	-	-
1794	Non-Participating Vacant Lot	4.5	1761	Suncor WTG21	-	-	-	-	-	-	-	-	-	-
1797	Non-Participating Vacant Lot	4.5	1431	Suncor WTG51	34.1	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0
2267	Non-Participating Receptor	4.5	1644	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2268	Non-Participating Receptor	4.5	1672	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2269	Non-Participating Receptor	4.5	1677	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2270	Non-Participating Receptor	4.5	1686	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2271	Non-Participating Receptor	4.5	1691	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2272	Non-Participating Receptor	4.5	1709	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2273	Non-Participating Receptor	4.5	1681	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2274	Non-Participating Receptor	4.5	1725	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2275	Non-Participating Receptor	4.5	1745	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2276	Non-Participating Receptor	4.5	1754	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2277	Non-Participating Receptor	4.5	1765	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2278	Non-Participating Receptor	4.5	1726	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2279	Non-Participating Receptor	4.5	1681	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2280	Non-Participating Receptor	4.5	1693	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2281	Non-Participating Receptor	4.5	1549	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2282	Non-Participating Receptor	4.5	1646	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2283	Non-Participating Receptor	4.5	1685	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2284	Non-Participating Receptor	4.5	1633	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2285	Non-Participating Receptor	4.5	1646	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2286	Non-Participating Receptor	4.5	1661	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2287	Non-Participating Receptor	4.5	1670	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2288	Non-Participating Receptor	4.5	1678	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2289	Non-Participating Receptor	4.5	1676	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2290	Non-Participating Receptor	4.5	1655	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2291	Non-Participating Receptor	4.5	1627	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2292	Non-Participating Receptor	4.5	1614	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2293	Non-Participating Receptor	4.5	1582	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2294	Non-Participating Receptor	4.5	1552	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2295	Non-Participating Receptor	4.5	1492	Suncor WTG19	33.1	33.2	33.2	33.1	33.1	40.0	43.0	45.0	49.0	51.0
2296	Non-Participating Receptor	4.5	1453	Suncor WTG19	33.2	33.3	33.3	33.2	33.2	40.0	43.0	45.0	49.0	51.0
2297	Non-Participating Receptor	4.5	1422	Suncor WTG19	33.3	33.3	33.4	33.3	33.3	40.0	43.0	45.0	49.0	51.0
2298	Non-Participating Receptor	4.5	1397	Suncor WTG19	33.5	33.5	33.6	33.5	33.5	40.0	43.0	45.0	49.0	51.0

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2299	Non-Participating Receptor	4.5	1371	Suncor WTG19	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0
2300	Non-Participating Receptor	4.5	1342	Suncor WTG19	33.7	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0
2301	Non-Participating Receptor	4.5	1447	Suncor WTG19	33.5	33.5	33.6	33.5	33.5	40.0	43.0	45.0	49.0	51.0
2302	Non-Participating Receptor	4.5	1502	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2303	Non-Participating Receptor	4.5	1556	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2304	Non-Participating Receptor	4.5	1583	Suncor WTG18	-	-	-	-	-	-	-	-	-	-
2305	Non-Participating Receptor	4.5	1688	Suncor WTG18	-	-	-	-	-	-	-	-	-	-
2306	Non-Participating Receptor	4.5	1715	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2307	Non-Participating Receptor	4.5	1672	Suncor WTG18	-	-	-	-	-	-	-	-	-	-
2308	Non-Participating Receptor	4.5	1655	Suncor WTG18	-	-	-	-	-	-	-	-	-	-
2309	Non-Participating Receptor	4.5	1504	Suncor WTG18	-	-	-	-	-	-	-	-	-	-
2310	Non-Participating Receptor	4.5	1468	Suncor WTG20	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
2311	Non-Participating Receptor	4.5	1436	Suncor WTG20	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
2312	Non-Participating Receptor	4.5	1415	Suncor WTG20	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
2313	Non-Participating Receptor	4.5	1389	Suncor WTG20	33.3	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0
2314	Non-Participating Receptor	4.5	1366	Suncor WTG20	33.4	33.4	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0
2315	Non-Participating Receptor	4.5	1403	Suncor WTG18	33.3	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0
2316	Non-Participating Receptor	4.5	1382	Suncor WTG18	33.4	33.4	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0
2317	Non-Participating Receptor	4.5	1323	Suncor WTG18	33.7	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0
2318	Non-Participating Receptor	4.5	1319	Suncor WTG20	33.7	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0
2319	Non-Participating Receptor	4.5	1365	Suncor WTG20	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
2320	Non-Participating Receptor	4.5	1198	Suncor WTG20	33.7	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0
2321	Non-Participating Receptor	4.5	1250	Suncor WTG20	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
2322	Non-Participating Receptor	4.5	1528	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2323	Non-Participating Receptor	4.5	1509	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2324	Non-Participating Receptor	4.5	1554	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2325	Non-Participating Receptor	4.5	1570	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2326	Non-Participating Receptor	4.5	1588	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2327	Non-Participating Receptor	4.5	1604	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2328	Non-Participating Receptor	4.5	1625	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2329	Non-Participating Receptor	4.5	1645	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2330	Non-Participating Receptor	4.5	1687	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2331	Non-Participating Receptor	4.5	1710	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2332	Non-Participating Receptor	4.5	1732	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2333	Non-Participating Vacant Lot	4.5	973	Suncor WTG41	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
2334	Non-Participating Vacant Lot	4.5	972	Suncor WTG40	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
2335	Non-Participating Receptor	4.5	1123	Suncor WTG8	36.0	36.1	36.2	36.1	36.0	40.0	43.0	45.0	49.0	51.0
2336	Non-Participating Receptor	4.5	1940	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
2337	Non-Participating Receptor	4.5	1978	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
2353	Non-Participating Vacant Lot	4.5	868	Suncor WTG69	37.8	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0
2354	Non-Participating Receptor	4.5	1408	Suncor WTG47	30.4	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0
2355	Non-Participating Receptor	4.5	1281	Suncor WTG18	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
2356	Non-Participating Vacant Lot	4.5	1143	Suncor WTG19	33.9	34.0	34.0	34.0	33.9	40.0	43.0	45.0	49.0	51.0
2357	Non-Participating Vacant Lot	4.5	1113	Suncor WTG19	34.1	34.2	34.2	34.1	34.1	40.0	43.0	45.0	49.0	51.0
2358	Non-Participating Vacant Lot	4.5	1338	Suncor WTG19	33.2	33.2	33.3	33.2	33.2	40.0	43.0	45.0	49.0	51.0
2359	Non-Participating Vacant Lot	4.5	1337	Suncor WTG19	33.2	33.2	33.3	33.2	33.2	40.0	43.0	45.0	49.0	51.0
2360	Non-Participating Vacant Lot	4.5	1472	Suncor WTG19	32.6	32.7	32.7	32.6	32.6	40.0	43.0	45.0	49.0	51.0
2361	Non-Participating Receptor	4.5	1443	Suncor WTG39	29.5	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0
2435	Non-Participating Vacant Lot	4.5	1228	Suncor WTG43	34.4	34.4	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0
2436	Non-Participating Vacant Lot	4.5	704	Suncor WTG51	38.6	38.6	38.6	38.6	38.6	40.0	43.0	45.0	49.0	51.0
2437	School	4.5	4976	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2438	Non-Participating Receptor	4.5	3072	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2440	Non-Participating Receptor	4.5	3680	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2441	Non-Participating Receptor	4.5	4904	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2443	Non-Participating Receptor	4.5	3921	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2444	Non-Participating Receptor	4.5	5222	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2446	Non-Participating Receptor	4.5	1481	Suncor WTG5	38.5	38.6	38.6	38.6	38.5	40.0	43.0	45.0	49.0	51.0
2447	Non-Participating Receptor	4.5	2918	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2448	Non-Participating Receptor	4.5	4925	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2449	Non-Participating Receptor	4.5	2839	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2451	Non-Participating Receptor	4.5	4961	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2452	Non-Participating Receptor	4.5	1586	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2453	Non-Participating Receptor	4.5	4927	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2454	Non-Participating Receptor	4.5	4845	Suncor WTG2	-	-	-	-	-	-	-	-	-	-

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2455	Non-Participating Receptor	4.5	4854	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2456	Non-Participating Receptor	4.5	5067	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2461	Non-Participating Receptor	4.5	5322	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2462	Non-Participating Receptor	4.5	3355	Suncor WTG9	-	-	-	-	-	-	-	-	-	-
2463	Non-Participating Receptor	4.5	3316	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2464	Non-Participating Receptor	4.5	5290	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2465	Non-Participating Receptor	4.5	3980	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2466	Non-Participating Receptor	4.5	4874	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2468	Non-Participating Vacant Lot	4.5	5021	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2469	Non-Participating Vacant Lot	4.5	3251	Suncor WTG8	-	-	-	-	-	-	-	-	-	-
2470	Non-Participating Vacant Lot	4.5	4183	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2471	Non-Participating Vacant Lot	4.5	5101	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2472	Non-Participating Vacant Lot	4.5	4031	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2473	Non-Participating Vacant Lot	4.5	2875	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2474	Non-Participating Vacant Lot	4.5	2795	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2475	Non-Participating Vacant Lot	4.5	5081	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2476	Non-Participating Vacant Lot	4.5	5136	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2477	Non-Participating Vacant Lot	4.5	5009	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2479	Non-Participating Vacant Lot	4.5	5439	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2480	Non-Participating Vacant Lot	4.5	5214	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2481	Non-Participating Vacant Lot	4.5	2324	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2482	Non-Participating Vacant Lot	4.5	4975	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2483	Non-Participating Vacant Lot	4.5	4924	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2484	Non-Participating Vacant Lot	4.5	3085	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2485	Non-Participating Vacant Lot	4.5	4031	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2486	Non-Participating Vacant Lot	4.5	4849	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2487	Non-Participating Vacant Lot	4.5	4939	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2488	Non-Participating Vacant Lot	4.5	5088	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2489	Non-Participating Receptor	4.5	4839	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2490	Non-Participating Vacant Lot	4.5	3604	Suncor WTG8	-	-	-	-	-	-	-	-	-	-
2491	Non-Participating Vacant Lot	4.5	2720	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2492	Non-Participating Vacant Lot	4.5	2969	Suncor WTG8	-	-	-	-	-	-	-	-	-	-
2494	Non-Participating Vacant Lot	4.5	3174	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2561	Non-Participating Receptor	4.5	1310	Suncor WTG43	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
2562	Non-Participating Vacant Lot	4.5	1311	Suncor WTG71	31.4	31.4	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0
2563	Non-Participating Receptor	4.5	1457	Suncor WTG23	34.8	35.2	35.5	35.1	34.8	40.0	43.0	45.0	49.0	51.0
2566	Non-Participating Vacant Lot	4.5	763	Suncor WTG20	36.4	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0
2567	Non-Participating Receptor	4.5	1101	Suncor WTG26	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
2568	Non-Participating Vacant Lot	4.5	1106	Suncor WTG26	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
2569	Non-Participating Receptor	4.5	1464	Suncor WTG53	30.3	30.3	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0
2604	Non-Participating Vacant Lot	4.5	1228	Suncor WTG46	31.5	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0
2605	Non-Participating Vacant Lot	4.5	1035	Suncor WTG46	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
2606	Non-Participating Vacant Lot	4.5	1058	Suncor WTG46	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
2607	Non-Participating Receptor	4.5	1565	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2609	Non-Participating Receptor	4.5	840	Suncor WTG44	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
2610	Non-Participating Receptor	4.5	1506	Suncor WTG69	-	-	-	-	-	-	-	-	-	-
2611	Non-Participating Receptor	4.5	1317	Suncor WTG26	38.7	38.7	38.7	38.7	38.7	40.0	43.0	45.0	49.0	51.0
2622	Non-Participating Receptor	4.5	1335	Suncor WTG20	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0
2637	Non-Participating Vacant Lot	4.5	932	Suncor WTG18	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
2638	Non-Participating Receptor	4.5	1040	Suncor WTG18	35.3	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0
2639	Non-Participating Receptor	4.5	1097	Suncor WTG8	36.1	36.2	36.3	36.2	36.1	40.0	43.0	45.0	49.0	51.0
2640	Non-Participating Vacant Lot	4.5	1489	Suncor WTG19	32.5	32.6	32.6	32.5	32.5	40.0	43.0	45.0	49.0	51.0
2641	Non-Participating Receptor	4.5	1685	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2642	Non-Participating Receptor	4.5	4925	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2643	Non-Participating Vacant Lot	4.5	5749	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2645	Non-Participating Vacant Lot	4.5	5325	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2646	Non-Participating Vacant Lot	4.5	5352	Suncor WTG9	-	-	-	-	-	-	-	-	-	-
2648	Non-Participating Vacant Lot	4.5	1638	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2649	Non-Participating Vacant Lot	4.5	1474	Suncor WTG23	39.2	40.1	40.5	39.9	39.3	40.0	43.0	45.0	49.0	51.0
2650	Non-Participating Vacant Lot	4.5	1521	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2651	Non-Participating Vacant Lot	4.5	1561	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2652	Non-Participating Vacant Lot	4.5	1615	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2653	Non-Participating Vacant Lot	4.5	1755	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2654	Non-Participating Vacant Lot	4.5	1851	Suncor WTG23	-	-	-	-	-	-	-	-	-	-



Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2655	Non-Participating Vacant Lot	4.5	1778	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2657	Non-Participating Vacant Lot	4.5	1683	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2658	Non-Participating Vacant Lot	4.5	1726	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2659	Non-Participating Vacant Lot	4.5	1754	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2661	Non-Participating Vacant Lot	4.5	1864	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2662	Non-Participating Receptor	4.5	1848	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2663	Non-Participating Receptor	4.5	1836	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2664	Non-Participating Vacant Lot	4.5	1828	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2665	Non-Participating Vacant Lot	4.5	1803	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2666	Non-Participating Receptor	4.5	1791	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2667	Non-Participating Receptor	4.5	1789	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2668	Non-Participating Vacant Lot	4.5	1816	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2669	Non-Participating Receptor	4.5	1848	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2670	Non-Participating Receptor	4.5	1871	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2671	Non-Participating Vacant Lot	4.5	1894	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2672	Non-Participating Receptor	4.5	1912	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2673	Non-Participating Vacant Lot	4.5	1934	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2674	Non-Participating Receptor	4.5	1952	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2675	Non-Participating Receptor	4.5	1973	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2684	Non-Participating Receptor	4.5	1965	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2685	Non-Participating Receptor	4.5	1947	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2686	Non-Participating Receptor	4.5	1899	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2687	Non-Participating Receptor	4.5	1859	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2688	Non-Participating Receptor	4.5	1902	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2689	Non-Participating Receptor	4.5	1925	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2690	Non-Participating Receptor	4.5	1949	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2691	Non-Participating Receptor	4.5	1997	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2692	Non-Participating Vacant Lot	4.5	1921	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2693	Non-Participating Vacant Lot	4.5	1879	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2694	Non-Participating Vacant Lot	4.5	1969	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2696	Non-Participating Vacant Lot	4.5	1992	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2697	Non-Participating Receptor	4.5	1964	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2698	Non-Participating Receptor	4.5	1899	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2699	Non-Participating Receptor	4.5	1828	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2700	Non-Participating Receptor	4.5	1826	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2701	Non-Participating Receptor	4.5	1838	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2702	Non-Participating Receptor	4.5	1902	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2703	Non-Participating Receptor	4.5	1937	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2704	Non-Participating Receptor	4.5	1949	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2705	Non-Participating Receptor	4.5	1964	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2706	Non-Participating Receptor	4.5	1985	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2707	Non-Participating Receptor	4.5	1877	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2708	Non-Participating Vacant Lot	4.5	1855	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2709	Non-Participating Vacant Lot	4.5	1840	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2710	Non-Participating Vacant Lot	4.5	1852	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2711	Non-Participating Vacant Lot	4.5	747	Suncor WTG34	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
2712	Non-Participating Receptor	4.5	1971	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2713	Non-Participating Receptor	4.5	1954	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2714	Non-Participating Receptor	4.5	1890	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2715	Non-Participating Receptor	4.5	1935	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2716	Non-Participating Receptor	4.5	1865	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2717	Non-Participating Receptor	4.5	1919	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2718	Non-Participating Receptor	4.5	1914	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2719	Non-Participating Receptor	4.5	1851	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2720	Non-Participating Receptor	4.5	1843	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2721	Non-Participating Receptor	4.5	1908	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2722	Non-Participating Receptor	4.5	1891	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2723	Non-Participating Receptor	4.5	1810	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2724	Non-Participating Receptor	4.5	1853	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2725	Non-Participating Receptor	4.5	1796	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2726	Non-Participating Receptor	4.5	1841	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2727	Non-Participating Receptor	4.5	1790	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2728	Non-Participating Receptor	4.5	1827	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2729	Non-Participating Receptor	4.5	1765	Suncor WTG39	-	-	-	-	-	-	-	-	-	-



Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2730	Non-Participating Receptor	4.5	1817	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2731	Non-Participating Receptor	4.5	1764	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2732	Non-Participating Receptor	4.5	1753	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2733	Non-Participating Receptor	4.5	1807	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2734	Non-Participating Receptor	4.5	1742	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2735	Non-Participating Receptor	4.5	1779	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2736	Non-Participating Receptor	4.5	1718	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2737	Non-Participating Receptor	4.5	1761	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2738	Non-Participating Vacant Lot	4.5	1730	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2739	Non-Participating Receptor	4.5	1758	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2740	Non-Participating Receptor	4.5	1706	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2742	Non-Participating Receptor	4.5	1752	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2743	Non-Participating Receptor	4.5	1741	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2744	Non-Participating Receptor	4.5	1732	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2745	Non-Participating Receptor	4.5	1722	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2746	Non-Participating Receptor	4.5	1667	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2747	Non-Participating Vacant Lot	4.5	1699	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2748	Non-Participating Vacant Lot	4.5	1676	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2749	Non-Participating Receptor	4.5	1708	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2750	Non-Participating Receptor	4.5	1661	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2751	Non-Participating Receptor	4.5	1648	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2752	Non-Participating Receptor	4.5	1700	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2753	Non-Participating Receptor	4.5	1690	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2754	Non-Participating Receptor	4.5	1688	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2755	Non-Participating Receptor	4.5	1675	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2756	Non-Participating Receptor	4.5	1638	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2757	Non-Participating Receptor	4.5	1626	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2758	Non-Participating Receptor	4.5	1625	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2759	Non-Participating Receptor	4.5	1619	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2760	Non-Participating Receptor	4.5	1671	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2761	Non-Participating Receptor	4.5	1662	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2762	Non-Participating Receptor	4.5	1667	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2763	Non-Participating Receptor	4.5	1658	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2764	Non-Participating Receptor	4.5	1660	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2765	Non-Participating Vacant Lot	4.5	1643	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2766	Non-Participating Receptor	4.5	1612	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2767	Non-Participating Receptor	4.5	1604	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2768	Non-Participating Receptor	4.5	1597	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2769	Non-Participating Receptor	4.5	1600	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2770	Non-Participating Receptor	4.5	1593	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2771	Non-Participating Receptor	4.5	1593	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2772	Non-Participating Receptor	4.5	1647	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2773	Non-Participating Receptor	4.5	1655	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2774	Non-Participating Receptor	4.5	1651	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2775	Non-Participating Receptor	4.5	1594	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2776	Non-Participating Receptor	4.5	1643	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2777	Non-Participating Receptor	4.5	1642	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2778	Non-Participating Receptor	4.5	1659	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2779	Non-Participating Vacant Lot	4.5	1618	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2780	Non-Participating Vacant Lot	4.5	1597	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2781	Non-Participating Receptor	4.5	1619	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2782	Non-Participating Receptor	4.5	1634	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2783	Non-Participating Receptor	4.5	1647	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2784	Non-Participating Receptor	4.5	1651	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2785	Non-Participating Receptor	4.5	1668	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2786	Non-Participating Vacant Lot	4.5	1496	Suncor WTG39	29.4	29.4	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0
2787	Non-Participating Receptor	4.5	1681	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2789	Non-Participating Receptor	4.5	1690	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2790	Non-Participating Receptor	4.5	1693	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2791	Non-Participating Receptor	4.5	1702	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2792	Non-Participating Receptor	4.5	1709	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2793	Non-Participating Receptor	4.5	1716	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2794	Non-Participating Receptor	4.5	1721	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2795	Non-Participating Receptor	4.5	1716	Suncor WTG39	-	-	-	-	-	-	-	-	-	-

Point of Receptor ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2796	Non-Participating Receptor	4.5	1718	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2797	Non-Participating Receptor	4.5	1739	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2798	Non-Participating Vacant Lot	4.5	1691	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2799	Non-Participating Receptor	4.5	1634	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2800	Non-Participating Receptor	4.5	1636	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2801	Non-Participating Receptor	4.5	1643	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2802	Non-Participating Receptor	4.5	1646	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2803	Non-Participating Receptor	4.5	1652	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2804	Non-Participating Receptor	4.5	1621	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2805	Non-Participating Receptor	4.5	1597	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2806	Non-Participating Receptor	4.5	1568	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2807	Non-Participating Receptor	4.5	1606	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2808	Non-Participating Receptor	4.5	1635	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2809	Non-Participating Receptor	4.5	1650	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2810	Non-Participating Receptor	4.5	1664	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2811	Non-Participating Receptor	4.5	1659	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2812	Non-Participating Receptor	4.5	1632	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2813	Non-Participating Receptor	4.5	1593	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2814	Non-Participating Vacant Lot	4.5	1612	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2815	Non-Participating Vacant Lot	4.5	1648	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2816	Non-Participating Vacant Lot	4.5	1685	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2817	Non-Participating Receptor	4.5	1746	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2818	Non-Participating Receptor	4.5	1752	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2819	Non-Participating Receptor	4.5	1758	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2820	Non-Participating Receptor	4.5	1772	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2821	Non-Participating Receptor	4.5	1780	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2822	Non-Participating Receptor	4.5	1786	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2823	Non-Participating Receptor	4.5	1793	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2824	Non-Participating Receptor	4.5	1697	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2825	Non-Participating Receptor	4.5	1682	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2826	Non-Participating Receptor	4.5	1666	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2827	Non-Participating Receptor	4.5	1649	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2828	Non-Participating Receptor	4.5	1634	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2829	Non-Participating Receptor	4.5	1619	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2830	Non-Participating Receptor	4.5	1713	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2831	Non-Participating Receptor	4.5	1697	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2832	Non-Participating Receptor	4.5	1680	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2833	Non-Participating Receptor	4.5	1665	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2834	Non-Participating Receptor	4.5	1653	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2835	Non-Participating Receptor	4.5	1681	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2836	Non-Participating Receptor	4.5	1699	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2837	Non-Participating Receptor	4.5	1713	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2838	Non-Participating Receptor	4.5	1726	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2840	Non-Participating Receptor	4.5	1731	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2841	Non-Participating Receptor	4.5	1715	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2842	Non-Participating Receptor	4.5	1702	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2843	Non-Participating Receptor	4.5	1684	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2844	Non-Participating Vacant Lot	4.5	1662	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2845	Non-Participating Receptor	4.5	1819	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2846	Non-Participating Receptor	4.5	1829	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2847	Non-Participating Receptor	4.5	1836	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2848	Non-Participating Receptor	4.5	1833	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2849	Non-Participating Receptor	4.5	1831	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2850	Non-Participating Receptor	4.5	1824	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2851	Non-Participating Receptor	4.5	1822	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2852	Non-Participating Receptor	4.5	1811	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2853	Non-Participating Receptor	4.5	1802	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2854	Non-Participating Receptor	4.5	1887	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2855	Non-Participating Vacant Lot	4.5	1681	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2856	Non-Participating Vacant Lot	4.5	1057	Suncor WTG44	33.8	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0
2857	Non-Participating Receptor	4.5	1965	Suncor WTG80	-	-	-	-	-	-	-	-	-	-
2858	Non-Participating Receptor	4.5	1489	Suncor WTG47	30.3	30.3	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0
2859	Non-Participating Receptor	4.5	1748	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2861	Non-Participating Vacant Lot	4.5	1449	Suncor WTG26	37.6	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2863	Non-Participating Vacant Lot	4.5	2786	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2864	Non-Participating Vacant Lot	4.5	1531	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2865	Non-Participating Vacant Lot	4.5	1024	Suncor WTG39	33.4	33.4	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0



ACOUSTICS



NOISE



VIBRATION

**Table A6: Wind Turbine Noise Impact Summary - Participating Receptor Locations  
 Suncor Cedar Point Wind Power Project, Cumulative Impact**

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)				
					6	7	8	9	10
3	Participating Receptor	4.5	738	Suncor WTG44	37.7	37.7	37.7	37.7	37.7
5	Participating Receptor	4.5	604	Suncor WTG40	38.5	38.5	38.5	38.5	38.5
8	Participating Receptor	4.5	919	Suncor WTG25	39.5	39.7	39.8	39.6	39.5
98	Participating Receptor	4.5	600	Suncor WTG44	38.4	38.4	38.4	38.4	38.4
118	Participating Receptor	4.5	705	Suncor WTG34	38.0	38.0	38.0	38.0	38.0
190	Participating Receptor	4.5	771	Suncor WTG17	38.1	38.2	38.3	38.2	38.1
191	Participating Receptor	4.5	726	Suncor WTG10	37.5	37.8	38.0	37.7	37.5
193	Participating Receptor	4.5	764	Suncor WTG15	38.2	38.2	38.2	38.2	38.2
448	Participating Receptor	4.5	723	Suncor WTG54	35.7	35.7	35.7	35.7	35.7
455	Participating Receptor	4.5	779	Suncor WTG48	36.7	36.7	36.7	36.7	36.7
465	Participating Receptor	4.5	986	Suncor WTG53	34.7	34.7	34.7	34.7	34.7
778	Participating Receptor	4.5	887	Suncor WTG51	36.5	36.5	36.5	36.5	36.5
807	Participating Receptor	4.5	680	Suncor WTG44	38.4	38.4	38.4	38.4	38.4
811	Participating Receptor	4.5	694	Suncor WTG41	37.8	37.8	37.8	37.8	37.8
828	Participating Receptor	4.5	568	Suncor WTG79	39.8	39.8	39.8	39.8	39.8
830	Participating Receptor	4.5	579	Suncor WTG80	38.5	38.5	38.5	38.5	38.5
831	Participating Receptor	7.5	823	Suncor WTG37	36.7	36.7	36.7	36.7	36.7
839	Participating Receptor	4.5	859	Suncor WTG35	38.0	38.0	38.0	38.0	38.0
841	Participating Receptor	4.5	744	Suncor WTG35	38.4	38.4	38.4	38.4	38.4
844	Participating Receptor	4.5	687	Suncor WTG70	39.2	39.2	39.2	39.2	39.2
845	Participating Receptor	4.5	759	Suncor WTG42	39.1	39.1	39.1	39.1	39.1
848	Participating Receptor	4.5	654	Suncor WTG72	39.6	39.6	39.6	39.6	39.6
856	Participating Receptor	4.5	636	Suncor WTG31	38.8	38.8	38.8	38.8	38.8
872	Participating Receptor	4.5	639	Suncor WTG31	38.1	38.1	38.1	38.1	38.1
935	Participating Receptor	4.5	674	Suncor WTG22	40.4	40.6	40.7	40.5	40.4
941	Participating Receptor	4.5	676	Suncor WTG25	39.6	39.7	39.8	39.7	39.6
953	Participating Receptor	4.5	1000	Suncor WTG22	38.7	38.9	39.1	38.9	38.7
987	Participating Receptor	4.5	653	Suncor WTG17	38.7	38.7	38.8	38.7	38.7
992	Participating Receptor	4.5	842	Suncor WTG10	36.7	37.2	37.5	37.1	36.7
1016	Participating Receptor	4.5	689	Suncor WTG20	37.2	37.2	37.2	37.2	37.2
1031	Participating Receptor	4.5	726	Suncor WTG16	38.1	38.1	38.1	38.1	38.1
1039	Participating Receptor	4.5	677	Suncor WTG82	39.4	39.5	39.6	39.5	39.4
1042	Participating Receptor	4.5	753	Suncor WTG7	39.4	39.6	39.7	39.5	39.4
1045	Participating Receptor	4.5	669	Suncor WTG11	38.0	38.0	38.0	38.0	38.0
1048	Participating Receptor	4.5	750	Suncor WTG11	37.6	37.7	37.7	37.7	37.6
1049	Participating Receptor	7.5	779	Suncor WTG4	39.0	39.4	39.6	39.3	39.0
1050	Participating Receptor	4.5	1196	Suncor WTG1	38.4	39.6	40.1	39.3	38.6
1094	Participating Receptor	7.5	678	Suncor WTG2	39.4	39.5	39.5	39.4	39.4
1274	Participating Vacant Lot	4.5	943	Suncor WTG54	34.6	34.6	34.6	34.6	34.6
1276	Participating Vacant Lot	4.5	702	Suncor WTG51	37.5	37.5	37.5	37.5	37.5
1277	Participating Vacant Lot	4.5	819	Suncor WTG51	37.3	37.3	37.3	37.3	37.3
1282	Participating Vacant Lot	4.5	785	Suncor WTG51	37.4	37.4	37.4	37.4	37.4
1283	Participating Vacant Lot	4.5	655	Suncor WTG51	37.8	37.8	37.8	37.8	37.8
1288	Participating Vacant Lot	4.5	765	Suncor WTG53	35.6	35.6	35.6	35.6	35.6
1293	Participating Vacant Lot	4.5	748	Suncor WTG44	36.2	36.2	36.2	36.2	36.2
1307	Participating Vacant Lot	4.5	843	Suncor WTG50	35.2	35.2	35.2	35.2	35.2
1313	Participating Vacant Lot	4.5	1198	Suncor WTG43	34.4	34.4	34.4	34.4	34.4
1318	Participating Vacant Lot	4.5	362	Suncor WTG39	41.6	41.6	41.6	41.6	41.6
1348	Participating Vacant Lot	4.5	790	Suncor WTG69	37.4	37.4	37.4	37.4	37.4
1354	Participating Vacant Lot	4.5	810	Suncor WTG69	37.7	37.7	37.7	37.7	37.7

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Suncor Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)				
					6	7	8	9	10
1363	Participating Vacant Lot	4.5	906	Suncor WTG69	38.1	38.1	38.1	38.1	38.1
1366	Participating Vacant Lot	4.5	1015	Suncor WTG81	36.5	36.5	36.5	36.5	36.5
1370	Participating Vacant Lot	4.5	802	Suncor WTG70	38.6	38.6	38.6	38.6	38.6
1376	Participating Vacant Lot	4.5	728	Suncor WTG35	38.4	38.4	38.4	38.4	38.4
1394	Participating Vacant Lot	4.5	695	Suncor WTG72	38.0	38.0	38.0	38.0	38.0
1401	Participating Vacant Lot	4.5	460	Suncor WTG71	39.4	39.4	39.4	39.4	39.4
1410	Participating Vacant Lot	4.5	540	Suncor WTG31	40.5	40.5	40.5	40.5	40.5
1416	Participating Vacant Lot	4.5	1257	Suncor WTG23	37.1	37.7	38.0	37.6	37.2
1419	Participating Vacant Lot	4.5	892	Suncor WTG31	37.7	37.7	37.7	37.7	37.7
1443	Participating Vacant Lot	4.5	592	Suncor WTG27	38.3	38.4	38.4	38.4	38.3
1478	Participating Vacant Lot	4.5	742	Suncor WTG25	39.8	39.9	40.0	39.9	39.8
1485	Participating Vacant Lot	4.5	1053	Suncor WTG22	39.0	39.6	39.8	39.4	39.0
1488	Participating Vacant Lot	4.5	665	Suncor WTG19	39.1	39.2	39.2	39.2	39.1
1490	Participating Vacant Lot	4.5	966	Suncor WTG22	38.7	39.0	39.2	39.0	38.8
1530	Participating Vacant Lot	4.5	225	Suncor WTG13	45.1	45.1	45.2	45.1	45.1
1548	Participating Vacant Lot	4.5	673	Suncor WTG17	38.6	38.6	38.7	38.6	38.6
1554	Participating Vacant Lot	4.5	657	Suncor WTG13	38.4	38.6	38.7	38.5	38.4
1557	Participating Vacant Lot	4.5	743	Suncor WTG18	38.1	38.1	38.1	38.1	38.1
1561	Participating Vacant Lot	4.5	768	Suncor WTG17	38.3	38.3	38.4	38.3	38.3
1567	Participating Vacant Lot	7.5	952	Suncor WTG10	37.0	37.6	37.8	37.4	37.0
1586	Participating Vacant Lot	4.5	659	Suncor WTG29	36.4	36.4	36.4	36.4	36.4
1588	Participating Vacant Lot	4.5	693	Suncor WTG29	36.2	36.2	36.2	36.2	36.2
1600	Participating Vacant Lot	4.5	985	Suncor WTG26	34.5	34.5	34.5	34.5	34.5
1607	Participating Vacant Lot	4.5	705	Suncor WTG16	38.5	38.5	38.5	38.5	38.5
1609	Participating Vacant Lot	4.5	916	Suncor WTG11	37.6	37.6	37.6	37.6	37.6
1628	Participating Vacant Lot	4.5	821	Suncor WTG8	38.1	38.3	38.3	38.2	38.2
1629	Participating Vacant Lot	4.5	793	Suncor WTG82	38.8	38.9	39.0	38.9	38.8
1631	Participating Vacant Lot	4.5	717	Suncor WTG6	39.3	39.5	39.6	39.5	39.3
1632	Participating Vacant Lot	4.5	844	Suncor WTG4	38.1	38.8	39.2	38.7	38.2
1635	Participating Vacant Lot	4.5	884	Suncor WTG6	38.7	39.0	39.2	39.0	38.8
1651	Participating Receptor	4.5	713	Suncor WTG1	38.6	38.8	38.8	38.7	38.6
1666	Participating Vacant Lot	4.5	722	Suncor WTG2	38.9	39.0	39.1	39.0	38.9
2442	Participating Receptor	4.5	2964	Suncor WTG5	-	-	-	-	-
2450	Participating Receptor	4.5	2892	Suncor WTG2	-	-	-	-	-
2478	Participating Vacant Lot	4.5	2783	Suncor WTG2	-	-	-	-	-
2493	Participating Vacant Lot	4.5	3008	Suncor WTG5	-	-	-	-	-
2862	Participating Receptor	4.5	750	Suncor WTG5	38.5	38.6	38.7	38.6	38.5

**Table A7: Wind Turbine Noise Impact Summary - Non-Participating Receptor Locations  
 Suncor Cedar Point Wind Power Project, No Cumulative Impact**

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
4	Non-Participating Receptor	4.5	1178	Suncor WTG51	34.5	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0
6	Non-Participating Receptor	4.5	550	Suncor WTG31	39.1	39.1	39.1	39.1	39.1	40.0	43.0	45.0	49.0	51.0
7	Non-Participating Receptor	4.5	909	Suncor WTG31	37.8	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0
9	Non-Participating Receptor	4.5	1646	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
10	Non-Participating Receptor	4.5	867	Suncor WTG2	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
68	Non-Participating Receptor	4.5	1938	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
69	Non-Participating Receptor	4.5	1823	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
72	Non-Participating Receptor	4.5	1502	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
73	Non-Participating Receptor	4.5	1714	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
74	Non-Participating Receptor	4.5	1521	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
76	Non-Participating Receptor	4.5	1886	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
78	Non-Participating Receptor	4.5	1259	Suncor WTG54	30.2	30.2	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0
79	Non-Participating Receptor	4.5	1445	Suncor WTG48	32.0	32.0	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0
81	Non-Participating Receptor	4.5	1004	Suncor WTG54	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
86	Non-Participating Receptor	4.5	1039	Suncor WTG53	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0
87	Non-Participating Receptor	4.5	909	Suncor WTG53	34.4	34.4	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0
89	Non-Participating Receptor	4.5	777	Suncor WTG53	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
92	Non-Participating Receptor	4.5	1554	Suncor WTG53	-	-	-	-	-	-	-	-	-	-
93	Non-Participating Receptor	4.5	726	Suncor WTG53	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
94	Non-Participating Receptor	4.5	886	Suncor WTG44	35.0	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0
95	Non-Participating Receptor	4.5	1959	Suncor WTG50	-	-	-	-	-	-	-	-	-	-
96	Non-Participating Receptor	4.5	611	Suncor WTG44	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
99	Non-Participating Receptor	4.5	938	Suncor WTG39	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
100	Non-Participating Receptor	4.5	825	Suncor WTG41	36.8	36.8	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0
102	Non-Participating Receptor	4.5	766	Suncor WTG43	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
103	Non-Participating Receptor	4.5	968	Suncor WTG43	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
104	Non-Participating Receptor	4.5	1301	Suncor WTG43	34.8	34.8	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0
105	Non-Participating Receptor	4.5	1439	Suncor WTG69	34.5	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0
106	Non-Participating Receptor	4.5	911	Suncor WTG40	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
107	Non-Participating Receptor	4.5	1024	Suncor WTG69	35.8	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0
108	Non-Participating Receptor	4.5	892	Suncor WTG40	36.4	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0
109	Non-Participating Receptor	4.5	763	Suncor WTG40	37.2	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0
110	Non-Participating Receptor	4.5	720	Suncor WTG40	37.7	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0
112	Non-Participating Receptor	4.5	862	Suncor WTG80	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
114	Non-Participating Receptor	4.5	608	Suncor WTG34	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
117	Non-Participating Receptor	4.5	911	Suncor WTG70	38.2	38.2	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0
120	Non-Participating Receptor	4.5	1184	Suncor WTG46	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
121	Non-Participating Receptor	4.5	651	Suncor WTG34	38.6	38.6	38.6	38.6	38.6	40.0	43.0	45.0	49.0	51.0
122	Non-Participating Receptor	4.5	811	Suncor WTG34	36.8	36.8	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0
123	Non-Participating Receptor	4.5	812	Suncor WTG81	37.2	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0
124	Non-Participating Receptor	4.5	728	Suncor WTG70	39.1	39.1	39.1	39.1	39.1	40.0	43.0	45.0	49.0	51.0
125	Non-Participating Receptor	4.5	1006	Suncor WTG81	36.4	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0
126	Non-Participating Receptor	4.5	790	Suncor WTG34	38.5	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0
127	Non-Participating Receptor	4.5	1197	Suncor WTG46	32.3	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0
129	Non-Participating Receptor	4.5	1058	Suncor WTG46	32.9	32.9	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0
130	Non-Participating Receptor	4.5	811	Suncor WTG72	38.5	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0
132	Non-Participating Receptor	4.5	810	Suncor WTG71	35.8	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0
135	Non-Participating Receptor	4.5	852	Suncor WTG72	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
136	Non-Participating Receptor	4.5	1624	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
137	Non-Participating Receptor	4.5	574	Suncor WTG72	38.8	38.8	38.8	38.8	38.8	40.0	43.0	45.0	49.0	51.0
138	Non-Participating Receptor	4.5	1022	Suncor WTG46	33.7	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0
142	Non-Participating Receptor	4.5	1904	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
143	Non-Participating Receptor	4.5	1508	Suncor WTG71	-	-	-	-	-	-	-	-	-	-
144	Non-Participating Receptor	4.5	1902	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
145	Non-Participating Receptor	4.5	1807	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
146	Non-Participating Receptor	4.5	1821	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
147	Non-Participating Receptor	4.5	1713	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
148	Non-Participating Receptor	4.5	1679	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
149	Non-Participating Receptor	4.5	1771	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
150	Non-Participating Receptor	4.5	1333	Suncor WTG27	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
151	Non-Participating Receptor	4.5	1665	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
152	Non-Participating Receptor	4.5	603	Suncor WTG27	38.3	38.3	38.3	38.3	38.3	40.0	43.0	45.0	49.0	51.0



Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
156	Non-Participating Receptor	4.5	1454	Suncor WTG27	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
160	Non-Participating Receptor	4.5	1037	Suncor WTG27	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
163	Non-Participating Receptor	4.5	1367	Suncor WTG27	33.4	33.4	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0
177	Non-Participating Receptor	4.5	1922	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
179	Non-Participating Receptor	4.5	1830	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
182	Non-Participating Receptor	4.5	1753	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
183	Non-Participating Receptor	4.5	1901	Suncor WTG10	-	-	-	-	-	-	-	-	-	-
186	Non-Participating Receptor	4.5	797	Suncor WTG18	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0
187	Non-Participating Receptor	4.5	787	Suncor WTG18	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
188	Non-Participating Receptor	4.5	765	Suncor WTG18	37.3	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0
189	Non-Participating Receptor	4.5	820	Suncor WTG17	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
192	Non-Participating Receptor	4.5	805	Suncor WTG17	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
194	Non-Participating Receptor	4.5	1686	Suncor WTG7	-	-	-	-	-	-	-	-	-	-
196	Non-Participating Receptor	4.5	1009	Suncor WTG10	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
198	Non-Participating Receptor	4.5	1185	Suncor WTG7	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
199	Non-Participating Receptor	4.5	1867	Suncor WTG7	-	-	-	-	-	-	-	-	-	-
200	Non-Participating Receptor	4.5	1021	Suncor WTG29	31.7	31.7	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0
201	Non-Participating Receptor	4.5	889	Suncor WTG20	34.8	34.8	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0
202	Non-Participating Receptor	4.5	866	Suncor WTG20	34.9	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0
203	Non-Participating Receptor	4.5	624	Suncor WTG7	37.4	37.4	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0
206	Non-Participating Receptor	4.5	1049	Suncor WTG29	32.1	32.1	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0
207	Non-Participating Receptor	4.5	1091	Suncor WTG29	32.1	32.1	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0
208	Non-Participating Receptor	4.5	1019	Suncor WTG29	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
209	Non-Participating Receptor	4.5	974	Suncor WTG20	34.5	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0
210	Non-Participating Receptor	4.5	1082	Suncor WTG20	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
218	Non-Participating Receptor	4.5	775	Suncor WTG16	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
219	Non-Participating Receptor	4.5	931	Suncor WTG7	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
221	Non-Participating Receptor	4.5	1103	Suncor WTG8	35.3	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0
222	Non-Participating Receptor	4.5	853	Suncor WTG7	37.8	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0
223	Non-Participating Receptor	4.5	903	Suncor WTG9	35.7	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0
224	Non-Participating Receptor	4.5	844	Suncor WTG6	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
225	Non-Participating Receptor	4.5	1259	Suncor WTG26	30.1	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0
226	Non-Participating Receptor	4.5	1143	Suncor WTG26	31.0	31.0	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0
227	Non-Participating Receptor	4.5	1049	Suncor WTG26	32.5	32.5	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0
228	Non-Participating Receptor	4.5	1289	Suncor WTG26	29.8	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0
229	Non-Participating Receptor	4.5	1352	Suncor WTG26	29.3	29.3	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0
230	Non-Participating Receptor	4.5	1229	Suncor WTG26	31.3	31.3	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0
231	Non-Participating Receptor	4.5	877	Suncor WTG8	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
232	Non-Participating Receptor	4.5	1420	Suncor WTG26	30.0	30.0	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0
235	Non-Participating Receptor	4.5	1300	Suncor WTG26	29.8	29.8	29.8	29.8	29.8	40.0	43.0	45.0	49.0	51.0
236	Non-Participating Receptor	4.5	1582	Suncor WTG26	-	-	-	-	-	-	-	-	-	-
239	Non-Participating Receptor	4.5	1173	Suncor WTG9	32.1	32.1	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0
240	Non-Participating Receptor	4.5	762	Suncor WTG1	35.2	35.2	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0
241	Non-Participating Receptor	4.5	1266	Suncor WTG8	32.5	32.5	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0
243	Non-Participating Receptor	4.5	1294	Suncor WTG1	29.9	29.9	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0
252	Non-Participating Receptor	4.5	1643	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
258	Non-Participating Receptor	4.5	1589	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
260	Non-Participating Receptor	4.5	749	Suncor WTG51	36.9	36.9	36.9	36.9	36.9	40.0	43.0	45.0	49.0	51.0
261	Non-Participating Receptor	4.5	754	Suncor WTG34	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0
262	Non-Participating Receptor	4.5	1179	Suncor WTG46	32.9	32.9	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0
263	Non-Participating Receptor	4.5	761	Suncor WTG71	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
264	Non-Participating Receptor	4.5	1218	Suncor WTG72	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
265	Non-Participating Receptor	4.5	1226	Suncor WTG27	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
270	Non-Participating Receptor	4.5	794	Suncor WTG17	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
271	Non-Participating Receptor	4.5	1122	Suncor WTG20	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
273	Non-Participating Receptor	4.5	1036	Suncor WTG13	35.5	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0
275	Non-Participating Receptor	4.5	994	Suncor WTG29	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
276	Non-Participating Receptor	4.5	774	Suncor WTG29	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
278	Non-Participating Receptor	4.5	915	Suncor WTG20	34.8	34.8	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0
279	Non-Participating Receptor	4.5	1276	Suncor WTG5	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
280	Non-Participating Receptor	4.5	1520	Suncor WTG8	-	-	-	-	-	-	-	-	-	-
281	Non-Participating Receptor	4.5	1575	Suncor WTG8	-	-	-	-	-	-	-	-	-	-
315	Non-Participating Receptor	4.5	1887	Suncor WTG48	-	-	-	-	-	-	-	-	-	-
317	Non-Participating Receptor	4.5	1074	Suncor WTG54	31.7	31.7	31.7	31.7	31.7	40.0	43.0	45.0	49.0	51.0

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
332	Non-Participating Receptor	4.5	1656	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
333	Non-Participating Receptor	4.5	1438	Suncor WTG29	28.4	28.4	28.4	28.4	28.4	40.0	43.0	45.0	49.0	51.0
334	Non-Participating Receptor	4.5	1482	Suncor WTG29	28.0	28.0	28.0	28.0	28.0	40.0	43.0	45.0	49.0	51.0
335	Non-Participating Receptor	4.5	1108	Suncor WTG29	30.8	30.8	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0
336	Non-Participating Receptor	4.5	1137	Suncor WTG29	30.6	30.6	30.6	30.6	30.6	40.0	43.0	45.0	49.0	51.0
337	Non-Participating Receptor	4.5	1147	Suncor WTG20	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
338	Non-Participating Receptor	4.5	729	Suncor WTG29	34.9	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0
339	Non-Participating Receptor	4.5	698	Suncor WTG29	35.3	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0
340	Non-Participating Receptor	4.5	662	Suncor WTG29	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
341	Non-Participating Receptor	4.5	1109	Suncor WTG26	32.9	32.9	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0
342	Non-Participating Receptor	4.5	1255	Suncor WTG26	30.0	30.0	30.0	30.0	30.0	40.0	43.0	45.0	49.0	51.0
343	Non-Participating Receptor	4.5	1371	Suncor WTG26	29.0	29.0	29.0	29.0	29.0	40.0	43.0	45.0	49.0	51.0
345	Non-Participating Receptor	4.5	1662	Suncor WTG26	-	-	-	-	-	-	-	-	-	-
346	Non-Participating Receptor	4.5	1692	Suncor WTG26	-	-	-	-	-	-	-	-	-	-
350	Non-Participating Receptor	4.5	751	Suncor WTG1	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
430	Non-Participating Receptor	4.5	1816	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
431	Non-Participating Receptor	4.5	1767	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
438	Non-Participating Receptor	4.5	1795	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
439	Non-Participating Receptor	4.5	1608	Suncor WTG48	-	-	-	-	-	-	-	-	-	-
440	Non-Participating Receptor	4.5	1372	Suncor WTG54	29.6	29.6	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0
441	Non-Participating Receptor	4.5	1528	Suncor WTG51	-	-	-	-	-	-	-	-	-	-
442	Non-Participating Receptor	4.5	1149	Suncor WTG54	31.2	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0
443	Non-Participating Receptor	4.5	1055	Suncor WTG54	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
446	Non-Participating Receptor	4.5	736	Suncor WTG54	35.5	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0
449	Non-Participating Receptor	4.5	996	Suncor WTG48	35.0	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0
454	Non-Participating Receptor	4.5	1302	Suncor WTG54	31.6	31.6	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0
456	Non-Participating Receptor	4.5	1360	Suncor WTG47	31.2	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0
460	Non-Participating Receptor	4.5	1062	Suncor WTG54	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
473	Non-Participating Receptor	4.5	667	Suncor WTG51	37.6	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0
517	Non-Participating Receptor	4.5	1136	Suncor WTG47	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
541	Non-Participating Receptor	4.5	1387	Suncor WTG47	31.9	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0
647	Non-Participating Receptor	4.5	757	Suncor WTG53	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
769	Non-Participating Receptor	4.5	816	Suncor WTG48	37.3	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0
771	Non-Participating Receptor	4.5	1370	Suncor WTG44	32.5	32.5	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0
774	Non-Participating Receptor	4.5	870	Suncor WTG53	34.5	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0
777	Non-Participating Receptor	4.5	1968	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
779	Non-Participating Receptor	4.5	1611	Suncor WTG53	-	-	-	-	-	-	-	-	-	-
782	Non-Participating Receptor	4.5	1873	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
783	Non-Participating Receptor	4.5	889	Suncor WTG48	37.5	37.5	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0
785	Non-Participating Receptor	4.5	1633	Suncor WTG53	-	-	-	-	-	-	-	-	-	-
786	Non-Participating Receptor	4.5	584	Suncor WTG53	37.8	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0
787	Non-Participating Receptor	4.5	801	Suncor WTG44	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
788	Non-Participating Receptor	4.5	1703	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
789	Non-Participating Receptor	4.5	840	Suncor WTG48	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
790	Non-Participating Receptor	4.5	910	Suncor WTG51	35.7	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0
791	Non-Participating Receptor	4.5	1618	Suncor WTG53	-	-	-	-	-	-	-	-	-	-
792	Non-Participating Receptor	4.5	1083	Suncor WTG51	35.2	35.2	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0
793	Non-Participating Receptor	4.5	1757	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
794	Non-Participating Receptor	4.5	1477	Suncor WTG39	29.9	29.9	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0
795	Non-Participating Receptor	4.5	1665	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
796	Non-Participating Receptor	4.5	1178	Suncor WTG51	34.8	34.8	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0
797	Non-Participating Receptor	4.5	981	Suncor WTG53	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
798	Non-Participating Receptor	4.5	1638	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
799	Non-Participating Receptor	4.5	1553	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
800	Non-Participating Receptor	4.5	1539	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
801	Non-Participating Receptor	4.5	1533	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
802	Non-Participating Receptor	4.5	931	Suncor WTG50	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
803	Non-Participating Receptor	4.5	944	Suncor WTG50	34.8	34.8	34.8	34.8	34.8	40.0	43.0	45.0	49.0	51.0
804	Non-Participating Receptor	4.5	726	Suncor WTG44	37.0	37.0	37.0	37.0	37.0	40.0	43.0	45.0	49.0	51.0
805	Non-Participating Receptor	4.5	876	Suncor WTG50	34.9	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0
806	Non-Participating Receptor	4.5	781	Suncor WTG44	37.2	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0
808	Non-Participating Receptor	4.5	1455	Suncor WTG43	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
809	Non-Participating Receptor	4.5	1250	Suncor WTG43	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
810	Non-Participating Receptor	4.5	948	Suncor WTG41	36.0	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0

Point of Receptor ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
812	Non-Participating Receptor	4.5	594	Suncor WTG50	38.6	38.6	38.6	38.6	38.6	40.0	43.0	45.0	49.0	51.0
813	Non-Participating Receptor	4.5	1469	Suncor WTG43	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
814	Non-Participating Receptor	4.5	1285	Suncor WTG43	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
815	Non-Participating Receptor	4.5	1359	Suncor WTG39	31.5	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0
816	Non-Participating Receptor	4.5	1097	Suncor WTG43	34.9	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0
817	Non-Participating Receptor	4.5	1099	Suncor WTG50	35.0	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0
818	Non-Participating Receptor	4.5	1177	Suncor WTG39	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
819	Non-Participating Receptor	4.5	1324	Suncor WTG39	31.9	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0
820	Non-Participating Receptor	4.5	1140	Suncor WTG41	35.5	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0
821	Non-Participating Receptor	4.5	715	Suncor WTG79	38.1	38.1	38.1	38.1	38.1	40.0	43.0	45.0	49.0	51.0
822	Non-Participating Receptor	4.5	1387	Suncor WTG69	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
823	Non-Participating Receptor	4.5	1237	Suncor WTG39	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
824	Non-Participating Receptor	4.5	1086	Suncor WTG37	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
825	Non-Participating Receptor	4.5	1503	Suncor WTG69	-	-	-	-	-	-	-	-	-	-
826	Non-Participating Receptor	4.5	1845	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
827	Non-Participating Receptor	4.5	883	Suncor WTG37	35.5	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0
829	Non-Participating Receptor	4.5	1255	Suncor WTG79	35.2	35.2	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0
832	Non-Participating Receptor	4.5	1030	Suncor WTG37	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
833	Non-Participating Receptor	4.5	778	Suncor WTG69	37.2	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0
834	Non-Participating Receptor	4.5	1200	Suncor WTG80	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
835	Non-Participating Receptor	4.5	851	Suncor WTG42	37.1	37.1	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0
836	Non-Participating Receptor	4.5	1053	Suncor WTG40	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
837	Non-Participating Receptor	4.5	764	Suncor WTG80	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
838	Non-Participating Receptor	4.5	827	Suncor WTG81	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
840	Non-Participating Receptor	4.5	1152	Suncor WTG81	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
842	Non-Participating Receptor	4.5	1011	Suncor WTG71	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
843	Non-Participating Receptor	4.5	735	Suncor WTG34	38.4	38.4	38.4	38.4	38.4	40.0	43.0	45.0	49.0	51.0
846	Non-Participating Receptor	4.5	781	Suncor WTG34	38.8	38.8	38.8	38.8	38.8	40.0	43.0	45.0	49.0	51.0
847	Non-Participating Receptor	4.5	1059	Suncor WTG46	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
849	Non-Participating Receptor	4.5	765	Suncor WTG35	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
850	Non-Participating Receptor	4.5	842	Suncor WTG34	38.7	38.7	38.7	38.7	38.7	40.0	43.0	45.0	49.0	51.0
851	Non-Participating Receptor	4.5	1255	Suncor WTG30	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
852	Non-Participating Receptor	4.5	1251	Suncor WTG30	33.4	33.4	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0
853	Non-Participating Receptor	4.5	1181	Suncor WTG46	31.9	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0
854	Non-Participating Receptor	4.5	1010	Suncor WTG46	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
855	Non-Participating Receptor	4.5	797	Suncor WTG72	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
857	Non-Participating Receptor	4.5	582	Suncor WTG71	37.8	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0
858	Non-Participating Receptor	4.5	1371	Suncor WTG30	32.7	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0
859	Non-Participating Receptor	4.5	963	Suncor WTG31	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0
860	Non-Participating Receptor	4.5	1231	Suncor WTG46	31.5	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0
861	Non-Participating Receptor	4.5	1157	Suncor WTG46	32.0	32.0	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0
862	Non-Participating Receptor	4.5	1171	Suncor WTG46	31.9	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0
863	Non-Participating Receptor	4.5	1083	Suncor WTG46	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
864	Non-Participating Receptor	4.5	799	Suncor WTG46	36.0	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0
865	Non-Participating Receptor	4.5	924	Suncor WTG46	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
866	Non-Participating Receptor	4.5	1037	Suncor WTG70	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
867	Non-Participating Receptor	4.5	1509	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
868	Non-Participating Receptor	4.5	1223	Suncor WTG71	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
869	Non-Participating Receptor	4.5	1443	Suncor WTG46	30.1	30.1	30.1	30.1	30.1	40.0	43.0	45.0	49.0	51.0
870	Non-Participating Receptor	4.5	852	Suncor WTG72	36.4	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0
871	Non-Participating Receptor	4.5	1431	Suncor WTG46	30.2	30.2	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0
873	Non-Participating Receptor	4.5	857	Suncor WTG71	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
874	Non-Participating Receptor	4.5	1009	Suncor WTG31	35.3	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0
875	Non-Participating Receptor	4.5	1349	Suncor WTG23	32.3	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0
877	Non-Participating Receptor	4.5	1268	Suncor WTG23	32.5	32.5	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0
878	Non-Participating Receptor	4.5	1316	Suncor WTG72	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
879	Non-Participating Receptor	4.5	1969	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
880	Non-Participating Receptor	4.5	1089	Suncor WTG71	32.7	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0
881	Non-Participating Receptor	4.5	747	Suncor WTG31	38.6	38.6	38.6	38.6	38.6	40.0	43.0	45.0	49.0	51.0
882	Non-Participating Receptor	4.5	1255	Suncor WTG72	32.4	32.4	32.4	32.4	32.4	40.0	43.0	45.0	49.0	51.0
883	Non-Participating Receptor	4.5	1264	Suncor WTG23	32.4	32.4	32.4	32.4	32.4	40.0	43.0	45.0	49.0	51.0
884	Non-Participating Receptor	4.5	1467	Suncor WTG23	31.2	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0
885	Non-Participating Receptor	4.5	814	Suncor WTG31	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
886	Non-Participating Receptor	4.5	1299	Suncor WTG31	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
887	Non-Participating Receptor	4.5	1644	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
888	Non-Participating Receptor	4.5	1510	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
889	Non-Participating Receptor	4.5	1596	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
890	Non-Participating Receptor	4.5	1325	Suncor WTG23	32.0	32.0	32.0	32.0	32.0	40.0	43.0	45.0	49.0	51.0
891	Non-Participating Receptor	4.5	1934	Suncor WTG46	-	-	-	-	-	-	-	-	-	-
894	Non-Participating Receptor	4.5	1482	Suncor WTG71	30.4	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0
895	Non-Participating Receptor	4.5	1662	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
896	Non-Participating Receptor	4.5	781	Suncor WTG23	38.3	38.3	38.3	38.3	38.3	40.0	43.0	45.0	49.0	51.0
897	Non-Participating Receptor	4.5	1737	Suncor WTG71	-	-	-	-	-	-	-	-	-	-
898	Non-Participating Receptor	4.5	1839	Suncor WTG21	-	-	-	-	-	-	-	-	-	-
899	Non-Participating Receptor	4.5	1945	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
901	Non-Participating Receptor	4.5	1532	Suncor WTG21	-	-	-	-	-	-	-	-	-	-
905	Non-Participating Receptor	4.5	1393	Suncor WTG27	32.7	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0
906	Non-Participating Receptor	4.5	1393	Suncor WTG27	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
907	Non-Participating Receptor	4.5	1886	Suncor WTG21	-	-	-	-	-	-	-	-	-	-
914	Non-Participating Receptor	4.5	1424	Suncor WTG27	32.3	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0
918	Non-Participating Receptor	4.5	808	Suncor WTG27	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
922	Non-Participating Receptor	4.5	1072	Suncor WTG27	34.5	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0
924	Non-Participating Receptor	4.5	1641	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
927	Non-Participating Receptor	4.5	1321	Suncor WTG27	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
930	Non-Participating Receptor	4.5	1875	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
931	Non-Participating Receptor	4.5	1891	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
938	Non-Participating Receptor	4.5	856	Suncor WTG25	37.2	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0
939	Non-Participating Receptor	4.5	1048	Suncor WTG21	35.5	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0
943	Non-Participating Receptor	4.5	762	Suncor WTG25	38.5	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0
945	Non-Participating Receptor	4.5	900	Suncor WTG22	37.5	37.5	37.5	37.5	37.5	40.0	43.0	45.0	49.0	51.0
946	Non-Participating Receptor	4.5	1366	Suncor WTG10	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0
947	Non-Participating Receptor	4.5	696	Suncor WTG19	38.3	38.3	38.3	38.3	38.3	40.0	43.0	45.0	49.0	51.0
950	Non-Participating Receptor	4.5	990	Suncor WTG19	38.3	38.3	38.3	38.3	38.3	40.0	43.0	45.0	49.0	51.0
951	Non-Participating Receptor	4.5	1589	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
952	Non-Participating Receptor	4.5	1192	Suncor WTG21	35.8	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0
954	Non-Participating Receptor	4.5	1240	Suncor WTG10	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
955	Non-Participating Receptor	4.5	1285	Suncor WTG10	32.1	32.1	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0
966	Non-Participating Receptor	4.5	1940	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
976	Non-Participating Receptor	4.5	1112	Suncor WTG18	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
978	Non-Participating Receptor	4.5	1117	Suncor WTG18	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
983	Non-Participating Receptor	4.5	926	Suncor WTG17	37.3	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0
984	Non-Participating Receptor	4.5	773	Suncor WTG18	37.3	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0
985	Non-Participating Receptor	4.5	800	Suncor WTG17	37.9	37.9	37.9	37.9	37.9	40.0	43.0	45.0	49.0	51.0
994	Non-Participating Receptor	4.5	600	Suncor WTG18	38.5	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0
996	Non-Participating Receptor	4.5	915	Suncor WTG13	36.5	36.5	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0
997	Non-Participating Receptor	4.5	1356	Suncor WTG7	31.8	31.8	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0
999	Non-Participating Receptor	4.5	778	Suncor WTG15	37.6	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0
1002	Non-Participating Receptor	4.5	588	Suncor WTG15	38.2	38.2	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0
1004	Non-Participating Receptor	4.5	869	Suncor WTG20	34.9	34.9	34.9	34.9	34.9	40.0	43.0	45.0	49.0	51.0
1005	Non-Participating Receptor	4.5	903	Suncor WTG20	34.7	34.7	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0
1020	Non-Participating Receptor	4.5	567	Suncor WTG29	39.0	39.0	39.0	39.0	39.0	40.0	43.0	45.0	49.0	51.0
1023	Non-Participating Receptor	4.5	984	Suncor WTG20	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
1025	Non-Participating Receptor	4.5	724	Suncor WTG15	37.1	37.1	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0
1032	Non-Participating Receptor	4.5	1296	Suncor WTG82	34.7	34.7	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0
1033	Non-Participating Receptor	4.5	1192	Suncor WTG9	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
1035	Non-Participating Receptor	4.5	1157	Suncor WTG26	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
1038	Non-Participating Receptor	4.5	921	Suncor WTG26	33.8	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0
1040	Non-Participating Receptor	4.5	851	Suncor WTG82	37.2	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0
1041	Non-Participating Receptor	4.5	875	Suncor WTG16	36.0	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0
1043	Non-Participating Receptor	4.5	918	Suncor WTG4	37.0	37.0	37.0	37.0	37.0	40.0	43.0	45.0	49.0	51.0
1044	Non-Participating Receptor	4.5	893	Suncor WTG4	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0
1051	Non-Participating Receptor	4.5	757	Suncor WTG4	36.8	36.8	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0
1052	Non-Participating Receptor	4.5	1119	Suncor WTG4	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
1053	Non-Participating Receptor	4.5	894	Suncor WTG8	36.0	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0
1056	Non-Participating Receptor	4.5	1205	Suncor WTG26	31.5	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0
1057	Non-Participating Receptor	4.5	659	Suncor WTG8	37.3	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0
1058	Non-Participating Receptor	4.5	708	Suncor WTG8	37.1	37.1	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0
1060	Non-Participating Receptor	4.5	1940	Suncor WTG1	-	-	-	-	-	-	-	-	-	-



Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
1071	Non-Participating Receptor	4.5	1968	Suncor WTG1	-	-	-	-	-	-	-	-	-	-
1077	Non-Participating Receptor	4.5	819	Suncor WTG8	35.5	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0
1079	Non-Participating Receptor	4.5	953	Suncor WTG11	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
1083	Non-Participating Receptor	4.5	1865	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1084	Non-Participating Receptor	4.5	1009	Suncor WTG9	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
1086	Non-Participating Receptor	4.5	1506	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1088	Non-Participating Receptor	4.5	1281	Suncor WTG1	29.9	29.9	29.9	29.9	29.9	40.0	43.0	45.0	49.0	51.0
1091	Non-Participating Receptor	4.5	1738	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1092	Non-Participating Receptor	4.5	1170	Suncor WTG8	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
1097	Non-Participating Receptor	4.5	1311	Suncor WTG9	31.0	31.0	31.0	31.0	31.0	40.0	43.0	45.0	49.0	51.0
1099	Non-Participating Receptor	4.5	1379	Suncor WTG9	30.8	30.8	30.8	30.8	30.8	40.0	43.0	45.0	49.0	51.0
1100	Non-Participating Receptor	7.5	922	Suncor WTG2	35.2	35.2	35.2	35.2	35.2	40.0	43.0	45.0	49.0	51.0
1105	Non-Participating Receptor	4.5	1426	Suncor WTG1	30.2	30.2	30.2	30.2	30.2	40.0	43.0	45.0	49.0	51.0
1133	Non-Participating Receptor	4.5	3202	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
1141	Non-Participating Receptor	4.5	3358	Suncor WTG9	-	-	-	-	-	-	-	-	-	-
1159	Non-Participating Vacant Lot	4.5	1670	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
1160	Non-Participating Vacant Lot	4.5	1386	Suncor WTG54	29.3	29.3	29.3	29.3	29.3	40.0	43.0	45.0	49.0	51.0
1162	Non-Participating Vacant Lot	4.5	849	Suncor WTG39	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
1165	Non-Participating Vacant Lot	4.5	1282	Suncor WTG39	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
1166	Non-Participating Vacant Lot	4.5	1328	Suncor WTG37	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
1167	Non-Participating Receptor	4.5	1999	Suncor WTG80	-	-	-	-	-	-	-	-	-	-
1174	Non-Participating Vacant Lot	4.5	934	Suncor WTG31	37.7	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0
1246	Non-Participating Receptor	4.5	1620	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
1248	Non-Participating Vacant Lot	4.5	1724	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
1252	Non-Participating Vacant Lot	4.5	1623	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
1255	Non-Participating Receptor	4.5	1645	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
1256	Non-Participating Vacant Lot	4.5	1863	Suncor WTG48	-	-	-	-	-	-	-	-	-	-
1258	Non-Participating Vacant Lot	4.5	1335	Suncor WTG54	29.7	29.7	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0
1264	Non-Participating Vacant Lot	4.5	1041	Suncor WTG54	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
1266	Non-Participating Vacant Lot	4.5	1604	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
1267	Non-Participating Vacant Lot	4.5	1111	Suncor WTG54	31.6	31.6	31.6	31.6	31.6	40.0	43.0	45.0	49.0	51.0
1269	Non-Participating Vacant Lot	4.5	1058	Suncor WTG54	32.3	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0
1271	Non-Participating Vacant Lot	4.5	1215	Suncor WTG51	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
1273	Non-Participating Vacant Lot	4.5	866	Suncor WTG51	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
1279	Non-Participating Vacant Lot	4.5	1381	Suncor WTG47	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
1280	Non-Participating Vacant Lot	4.5	1272	Suncor WTG53	31.5	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0
1285	Non-Participating Vacant Lot	4.5	1247	Suncor WTG44	33.3	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0
1290	Non-Participating Vacant Lot	4.5	736	Suncor WTG51	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
1291	Non-Participating Vacant Lot	4.5	1753	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
1295	Non-Participating Vacant Lot	4.5	1617	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
1298	Non-Participating Vacant Lot	4.5	726	Suncor WTG44	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0
1302	Non-Participating Vacant Lot	4.5	1494	Suncor WTG43	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
1303	Non-Participating Vacant Lot	4.5	1982	Suncor WTG50	-	-	-	-	-	-	-	-	-	-
1304	Non-Participating Vacant Lot	4.5	1507	Suncor WTG43	-	-	-	-	-	-	-	-	-	-
1308	Non-Participating Vacant Lot	4.5	1248	Suncor WTG43	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
1310	Non-Participating Vacant Lot	4.5	904	Suncor WTG50	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
1315	Non-Participating Receptor	4.5	1980	Suncor WTG79	-	-	-	-	-	-	-	-	-	-
1316	Non-Participating Vacant Lot	4.5	1643	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
1319	Non-Participating Vacant Lot	4.5	702	Suncor WTG39	36.5	36.5	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0
1320	Non-Participating Vacant Lot	4.5	980	Suncor WTG41	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
1321	Non-Participating Vacant Lot	4.5	1515	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
1322	Non-Participating Vacant Lot	4.5	1102	Suncor WTG39	35.1	35.1	35.1	35.1	35.1	40.0	43.0	45.0	49.0	51.0
1324	Non-Participating Vacant Lot	4.5	1091	Suncor WTG39	33.8	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0
1326	Non-Participating Vacant Lot	4.5	700	Suncor WTG79	37.3	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0
1328	Non-Participating Vacant Lot	4.5	1026	Suncor WTG40	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
1330	Non-Participating Receptor	4.5	1842	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
1332	Non-Participating Vacant Lot	4.5	1108	Suncor WTG37	34.1	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0
1333	Non-Participating Receptor	4.5	1986	Suncor WTG80	-	-	-	-	-	-	-	-	-	-
1334	Non-Participating Vacant Lot	4.5	1116	Suncor WTG69	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
1335	Non-Participating Vacant Lot	4.5	845	Suncor WTG40	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
1337	Non-Participating Vacant Lot	4.5	1947	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
1341	Non-Participating Vacant Lot	4.5	926	Suncor WTG69	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
1342	Non-Participating Vacant Lot	4.5	1662	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
1343	Non-Participating Vacant Lot	4.5	857	Suncor WTG40	36.6	36.6	36.6	36.6	36.6	40.0	43.0	45.0	49.0	51.0

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
1344	Non-Participating Vacant Lot	4.5	713	Suncor WTG80	36.7	36.7	36.7	36.7	36.7	40.0	43.0	45.0	49.0	51.0
1345	Non-Participating Vacant Lot	4.5	915	Suncor WTG37	35.8	35.8	35.8	35.8	35.8	40.0	43.0	45.0	49.0	51.0
1346	Non-Participating Vacant Lot	4.5	1264	Suncor WTG34	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
1347	Non-Participating Vacant Lot	4.5	803	Suncor WTG69	37.1	37.1	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0
1352	Non-Participating Vacant Lot	4.5	1749	Suncor WTG80	-	-	-	-	-	-	-	-	-	-
1356	Non-Participating Vacant Lot	4.5	726	Suncor WTG80	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
1358	Non-Participating Vacant Lot	4.5	1776	Suncor WTG80	-	-	-	-	-	-	-	-	-	-
1359	Non-Participating Vacant Lot	4.5	1100	Suncor WTG80	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
1361	Non-Participating Vacant Lot	4.5	1005	Suncor WTG69	37.7	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0
1362	Non-Participating Vacant Lot	4.5	785	Suncor WTG81	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
1364	Non-Participating Vacant Lot	4.5	792	Suncor WTG34	37.4	37.4	37.4	37.4	37.4	40.0	43.0	45.0	49.0	51.0
1365	Non-Participating Vacant Lot	4.5	621	Suncor WTG34	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
1367	Non-Participating Vacant Lot	4.5	836	Suncor WTG34	36.0	36.0	36.0	36.0	36.0	40.0	43.0	45.0	49.0	51.0
1368	Non-Participating Vacant Lot	4.5	1410	Suncor WTG34	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
1369	Non-Participating Receptor	4.5	1738	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
1371	Non-Participating Vacant Lot	4.5	1265	Suncor WTG46	33.3	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0
1372	Non-Participating Vacant Lot	4.5	1494	Suncor WTG32	32.3	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0
1373	Non-Participating Vacant Lot	4.5	1122	Suncor WTG46	33.8	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0
1374	Non-Participating Vacant Lot	4.5	1609	Suncor WTG32	-	-	-	-	-	-	-	-	-	-
1377	Non-Participating Vacant Lot	4.5	1677	Suncor WTG32	-	-	-	-	-	-	-	-	-	-
1383	Non-Participating Vacant Lot	4.5	749	Suncor WTG71	36.8	36.8	36.8	36.8	36.8	40.0	43.0	45.0	49.0	51.0
1384	Non-Participating Vacant Lot	4.5	741	Suncor WTG70	38.9	38.9	38.9	38.9	38.9	40.0	43.0	45.0	49.0	51.0
1387	Non-Participating Vacant Lot	4.5	1945	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
1395	Non-Participating Vacant Lot	4.5	646	Suncor WTG72	37.7	37.7	37.7	37.7	37.7	40.0	43.0	45.0	49.0	51.0
1396	Non-Participating Vacant Lot	4.5	937	Suncor WTG31	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
1398	Non-Participating Vacant Lot	4.5	921	Suncor WTG72	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
1399	Non-Participating Vacant Lot	4.5	829	Suncor WTG46	36.4	36.4	36.4	36.4	36.4	40.0	43.0	45.0	49.0	51.0
1400	Non-Participating Vacant Lot	4.5	612	Suncor WTG72	38.0	38.0	38.0	38.0	38.0	40.0	43.0	45.0	49.0	51.0
1402	Non-Participating Vacant Lot	4.5	1108	Suncor WTG70	34.1	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0
1403	Non-Participating Vacant Lot	4.5	767	Suncor WTG71	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
1404	Non-Participating Vacant Lot	4.5	1290	Suncor WTG35	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
1406	Non-Participating Vacant Lot	4.5	1405	Suncor WTG23	32.3	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0
1407	Non-Participating Vacant Lot	4.5	1427	Suncor WTG35	33.8	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0
1408	Non-Participating Vacant Lot	4.5	942	Suncor WTG71	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
1409	Non-Participating Vacant Lot	4.5	1383	Suncor WTG23	31.9	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0
1413	Non-Participating Vacant Lot	4.5	1364	Suncor WTG23	31.8	31.8	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0
1414	Non-Participating Vacant Lot	4.5	676	Suncor WTG31	39.2	39.2	39.2	39.2	39.2	40.0	43.0	45.0	49.0	51.0
1418	Non-Participating Vacant Lot	4.5	1277	Suncor WTG23	32.3	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0
1420	Non-Participating Vacant Lot	4.5	1324	Suncor WTG71	31.3	31.3	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0
1422	Non-Participating Vacant Lot	4.5	1557	Suncor WTG71	-	-	-	-	-	-	-	-	-	-
1424	Non-Participating Vacant Lot	4.5	1487	Suncor WTG31	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
1425	Non-Participating Vacant Lot	4.5	828	Suncor WTG27	36.9	36.9	36.9	36.9	36.9	40.0	43.0	45.0	49.0	51.0
1426	Non-Participating Vacant Lot	4.5	1602	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
1427	Non-Participating Vacant Lot	4.5	712	Suncor WTG27	37.6	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0
1428	Non-Participating Vacant Lot	4.5	1511	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
1429	Non-Participating Vacant Lot	4.5	1790	Suncor WTG72	-	-	-	-	-	-	-	-	-	-
1430	Non-Participating Vacant Lot	4.5	613	Suncor WTG27	39.6	39.6	39.6	39.6	39.6	40.0	43.0	45.0	49.0	51.0
1431	Non-Participating Vacant Lot	4.5	751	Suncor WTG27	39.1	39.1	39.1	39.1	39.1	40.0	43.0	45.0	49.0	51.0
1435	Non-Participating Vacant Lot	4.5	866	Suncor WTG24	38.7	38.7	38.7	38.7	38.7	40.0	43.0	45.0	49.0	51.0
1436	Non-Participating Vacant Lot	4.5	1717	Suncor WTG71	-	-	-	-	-	-	-	-	-	-
1437	Non-Participating Vacant Lot	4.5	746	Suncor WTG24	39.2	39.2	39.2	39.2	39.2	40.0	43.0	45.0	49.0	51.0
1441	Non-Participating Vacant Lot	4.5	1977	Suncor WTG71	-	-	-	-	-	-	-	-	-	-
1442	Non-Participating Vacant Lot	4.5	1990	Suncor WTG21	-	-	-	-	-	-	-	-	-	-
1446	Non-Participating Vacant Lot	4.5	773	Suncor WTG27	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
1449	Non-Participating Vacant Lot	4.5	666	Suncor WTG27	37.3	37.3	37.3	37.3	37.3	40.0	43.0	45.0	49.0	51.0
1462	Non-Participating Vacant Lot	4.5	1778	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
1474	Non-Participating Vacant Lot	4.5	1706	Suncor WTG27	-	-	-	-	-	-	-	-	-	-
1480	Non-Participating Vacant Lot	4.5	787	Suncor WTG19	38.2	38.2	38.2	38.2	38.2	40.0	43.0	45.0	49.0	51.0
1483	Non-Participating Vacant Lot	4.5	1377	Suncor WTG10	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0
1484	Non-Participating Vacant Lot	4.5	1195	Suncor WTG21	35.0	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0
1486	Non-Participating Vacant Lot	4.5	1235	Suncor WTG19	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
1487	Non-Participating Vacant Lot	4.5	902	Suncor WTG19	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
1489	Non-Participating Vacant Lot	4.5	728	Suncor WTG19	38.9	38.9	38.9	38.9	38.9	40.0	43.0	45.0	49.0	51.0
1491	Non-Participating Vacant Lot	4.5	1310	Suncor WTG10	34.5	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0



Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
1492	Non-Participating Vacant Lot	4.5	1456	Suncor WTG10	30.3	30.3	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0
1493	Non-Participating Vacant Lot	4.5	1727	Suncor WTG10	-	-	-	-	-	-	-	-	-	-
1520	Non-Participating Vacant Lot	4.5	1880	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
1522	Non-Participating Vacant Lot	4.5	1596	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
1525	Non-Participating Vacant Lot	4.5	1297	Suncor WTG19	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
1531	Non-Participating Vacant Lot	4.5	1049	Suncor WTG10	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
1534	Non-Participating Vacant Lot	4.5	1787	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
1537	Non-Participating Vacant Lot	4.5	1392	Suncor WTG29	28.6	28.6	28.6	28.6	28.6	40.0	43.0	45.0	49.0	51.0
1538	Non-Participating Vacant Lot	4.5	661	Suncor WTG17	38.5	38.5	38.5	38.5	38.5	40.0	43.0	45.0	49.0	51.0
1539	Non-Participating Vacant Lot	4.5	1269	Suncor WTG29	29.5	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0
1544	Non-Participating Receptor	4.5	876	Suncor WTG29	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
1545	Non-Participating Vacant Lot	4.5	1284	Suncor WTG20	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
1549	Non-Participating Vacant Lot	4.5	975	Suncor WTG18	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
1550	Non-Participating Vacant Lot	4.5	1050	Suncor WTG20	34.7	34.7	34.7	34.7	34.7	40.0	43.0	45.0	49.0	51.0
1552	Non-Participating Vacant Lot	4.5	665	Suncor WTG13	37.6	37.6	37.6	37.6	37.6	40.0	43.0	45.0	49.0	51.0
1553	Non-Participating Vacant Lot	4.5	812	Suncor WTG18	36.5	36.5	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0
1555	Non-Participating Vacant Lot	4.5	904	Suncor WTG29	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
1556	Non-Participating Vacant Lot	4.5	1353	Suncor WTG10	32.5	32.5	32.5	32.5	32.5	40.0	43.0	45.0	49.0	51.0
1558	Non-Participating Vacant Lot	4.5	1177	Suncor WTG20	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
1559	Non-Participating Vacant Lot	4.5	1141	Suncor WTG10	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0
1560	Non-Participating Vacant Lot	4.5	996	Suncor WTG10	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
1563	Non-Participating Vacant Lot	4.5	895	Suncor WTG17	37.1	37.1	37.1	37.1	37.1	40.0	43.0	45.0	49.0	51.0
1565	Non-Participating Vacant Lot	4.5	728	Suncor WTG13	37.2	37.2	37.2	37.2	37.2	40.0	43.0	45.0	49.0	51.0
1566	Non-Participating Vacant Lot	4.5	834	Suncor WTG10	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
1568	Non-Participating Vacant Lot	4.5	804	Suncor WTG29	33.9	33.9	33.9	33.9	33.9	40.0	43.0	45.0	49.0	51.0
1569	Non-Participating Vacant Lot	4.5	1258	Suncor WTG7	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
1570	Non-Participating Vacant Lot	4.5	1578	Suncor WTG7	-	-	-	-	-	-	-	-	-	-
1573	Non-Participating Vacant Lot	4.5	752	Suncor WTG29	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
1575	Non-Participating Vacant Lot	4.5	984	Suncor WTG20	34.2	34.2	34.2	34.2	34.2	40.0	43.0	45.0	49.0	51.0
1578	Non-Participating Vacant Lot	4.5	659	Suncor WTG29	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
1581	Non-Participating Vacant Lot	4.5	758	Suncor WTG29	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
1584	Non-Participating Vacant Lot	4.5	753	Suncor WTG20	35.7	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0
1587	Non-Participating Vacant Lot	4.5	553	Suncor WTG15	38.4	38.4	38.4	38.4	38.4	40.0	43.0	45.0	49.0	51.0
1594	Non-Participating Vacant Lot	4.5	1720	Suncor WTG29	-	-	-	-	-	-	-	-	-	-
1598	Non-Participating Vacant Lot	4.5	1079	Suncor WTG20	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
1599	Non-Participating Vacant Lot	4.5	989	Suncor WTG26	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
1602	Non-Participating Vacant Lot	4.5	1118	Suncor WTG26	31.8	31.8	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0
1603	Non-Participating Vacant Lot	4.5	1000	Suncor WTG26	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
1605	Non-Participating Vacant Lot	4.5	948	Suncor WTG20	34.5	34.5	34.5	34.5	34.5	40.0	43.0	45.0	49.0	51.0
1608	Non-Participating Vacant Lot	4.5	1036	Suncor WTG26	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
1610	Non-Participating Vacant Lot	4.5	958	Suncor WTG26	33.6	33.6	33.6	33.6	33.6	40.0	43.0	45.0	49.0	51.0
1611	Non-Participating Vacant Lot	4.5	879	Suncor WTG11	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
1612	Non-Participating Vacant Lot	4.5	1081	Suncor WTG20	33.3	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0
1613	Non-Participating Vacant Lot	4.5	1169	Suncor WTG26	31.1	31.1	31.1	31.1	31.1	40.0	43.0	45.0	49.0	51.0
1614	Non-Participating Vacant Lot	4.5	991	Suncor WTG82	36.2	36.2	36.2	36.2	36.2	40.0	43.0	45.0	49.0	51.0
1615	Non-Participating Vacant Lot	4.5	1072	Suncor WTG20	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
1616	Non-Participating Vacant Lot	4.5	888	Suncor WTG16	35.3	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0
1617	Non-Participating Vacant Lot	4.5	795	Suncor WTG16	35.9	35.9	35.9	35.9	35.9	40.0	43.0	45.0	49.0	51.0
1618	Non-Participating Vacant Lot	4.5	1640	Suncor WTG1	-	-	-	-	-	-	-	-	-	-
1619	Non-Participating Vacant Lot	4.5	1053	Suncor WTG8	35.6	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0
1620	Non-Participating Vacant Lot	4.5	780	Suncor WTG7	38.1	38.1	38.1	38.1	38.1	40.0	43.0	45.0	49.0	51.0
1621	Non-Participating Vacant Lot	4.5	782	Suncor WTG11	36.5	36.5	36.5	36.5	36.5	40.0	43.0	45.0	49.0	51.0
1622	Non-Participating Vacant Lot	4.5	1347	Suncor WTG1	31.2	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0
1623	Non-Participating Vacant Lot	4.5	1092	Suncor WTG26	31.5	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0
1624	Non-Participating Vacant Lot	4.5	918	Suncor WTG4	35.5	35.5	35.5	35.5	35.5	40.0	43.0	45.0	49.0	51.0
1625	Non-Participating Vacant Lot	4.5	1121	Suncor WTG4	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
1626	Non-Participating Vacant Lot	4.5	1101	Suncor WTG26	32.7	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0
1627	Non-Participating Vacant Lot	4.5	1291	Suncor WTG1	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
1630	Non-Participating Vacant Lot	4.5	749	Suncor WTG6	38.8	38.8	38.8	38.8	38.8	40.0	43.0	45.0	49.0	51.0
1634	Non-Participating Vacant Lot	4.5	1087	Suncor WTG1	32.7	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0
1636	Non-Participating Vacant Lot	4.5	1269	Suncor WTG26	30.5	30.5	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0
1642	Non-Participating Vacant Lot	4.5	1580	Suncor WTG26	-	-	-	-	-	-	-	-	-	-
1643	Non-Participating Vacant Lot	4.5	1475	Suncor WTG26	28.3	28.3	28.3	28.3	28.3	40.0	43.0	45.0	49.0	51.0
1646	Non-Participating Vacant Lot	4.5	1007	Suncor WTG11	33.8	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
1648	Non-Participating Vacant Lot	4.5	1724	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1649	Non-Participating Vacant Lot	4.5	1596	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1650	Non-Participating Vacant Lot	4.5	1094	Suncor WTG9	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
1652	Non-Participating Vacant Lot	4.5	1078	Suncor WTG9	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
1654	Non-Participating Vacant Lot	4.5	1322	Suncor WTG9	32.4	32.4	32.4	32.4	32.4	40.0	43.0	45.0	49.0	51.0
1657	Non-Participating Vacant Lot	4.5	1244	Suncor WTG8	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
1659	Non-Participating Vacant Lot	4.5	883	Suncor WTG5	35.3	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0
1660	Non-Participating Vacant Lot	4.5	1161	Suncor WTG5	34.1	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0
1661	Non-Participating Vacant Lot	4.5	1614	Suncor WTG11	-	-	-	-	-	-	-	-	-	-
1663	Non-Participating Vacant Lot	4.5	1435	Suncor WTG11	30.5	30.5	30.5	30.5	30.5	40.0	43.0	45.0	49.0	51.0
1664	Non-Participating Vacant Lot	4.5	1287	Suncor WTG9	31.3	31.3	31.3	31.3	31.3	40.0	43.0	45.0	49.0	51.0
1665	Non-Participating Vacant Lot	4.5	913	Suncor WTG1	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
1667	Non-Participating Vacant Lot	4.5	1306	Suncor WTG9	31.8	31.8	31.8	31.8	31.8	40.0	43.0	45.0	49.0	51.0
1668	Non-Participating Vacant Lot	4.5	1411	Suncor WTG9	31.9	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0
1669	Non-Participating Vacant Lot	4.5	1338	Suncor WTG8	32.1	32.1	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0
1670	Non-Participating Vacant Lot	4.5	1242	Suncor WTG8	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
1671	Non-Participating Vacant Lot	4.5	1094	Suncor WTG5	34.0	34.0	34.0	34.0	34.0	40.0	43.0	45.0	49.0	51.0
1672	Non-Participating Vacant Lot	4.5	866	Suncor WTG2	35.7	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0
1673	Non-Participating Vacant Lot	4.5	836	Suncor WTG1	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
1675	Non-Participating Vacant Lot	4.5	989	Suncor WTG1	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
1773	Non-Participating Vacant Lot	4.5	4839	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
1785	Occupied School	4.5	1207	Suncor WTG43	34.4	34.4	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0
1786	Non-Participating Receptor	4.5	999	Suncor WTG8	35.7	35.7	35.7	35.7	35.7	40.0	43.0	45.0	49.0	51.0
1787	Non-Participating Receptor	4.5	1261	Suncor WTG43	34.3	34.3	34.3	34.3	34.3	40.0	43.0	45.0	49.0	51.0
1788	Non-Participating Vacant Lot	4.5	1310	Suncor WTG43	34.1	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0
1789	Non-Participating Receptor	4.5	1977	Suncor WTG47	-	-	-	-	-	-	-	-	-	-
1790	Non-Participating Vacant Lot	4.5	833	Suncor WTG13	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
1791	Non-Participating Vacant Lot	4.5	1363	Suncor WTG10	31.9	31.9	31.9	31.9	31.9	40.0	43.0	45.0	49.0	51.0
1792	Non-Participating Vacant Lot	4.5	1185	Suncor WTG4	33.8	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0
1793	Non-Participating Vacant Lot	4.5	1917	Suncor WTG7	-	-	-	-	-	-	-	-	-	-
1794	Non-Participating Vacant Lot	4.5	1761	Suncor WTG21	-	-	-	-	-	-	-	-	-	-
1797	Non-Participating Vacant Lot	4.5	1431	Suncor WTG51	34.1	34.1	34.1	34.1	34.1	40.0	43.0	45.0	49.0	51.0
2267	Non-Participating Receptor	4.5	1644	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2268	Non-Participating Receptor	4.5	1672	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2269	Non-Participating Receptor	4.5	1677	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2270	Non-Participating Receptor	4.5	1686	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2271	Non-Participating Receptor	4.5	1691	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2272	Non-Participating Receptor	4.5	1709	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2273	Non-Participating Receptor	4.5	1681	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2274	Non-Participating Receptor	4.5	1725	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2275	Non-Participating Receptor	4.5	1745	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2276	Non-Participating Receptor	4.5	1754	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2277	Non-Participating Receptor	4.5	1765	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2278	Non-Participating Receptor	4.5	1726	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2279	Non-Participating Receptor	4.5	1681	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2280	Non-Participating Receptor	4.5	1693	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2281	Non-Participating Receptor	4.5	1549	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2282	Non-Participating Receptor	4.5	1646	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2283	Non-Participating Receptor	4.5	1685	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2284	Non-Participating Receptor	4.5	1633	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2285	Non-Participating Receptor	4.5	1646	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2286	Non-Participating Receptor	4.5	1661	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2287	Non-Participating Receptor	4.5	1670	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2288	Non-Participating Receptor	4.5	1678	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2289	Non-Participating Receptor	4.5	1676	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2290	Non-Participating Receptor	4.5	1655	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2291	Non-Participating Receptor	4.5	1627	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2292	Non-Participating Receptor	4.5	1614	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2293	Non-Participating Receptor	4.5	1582	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2294	Non-Participating Receptor	4.5	1552	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2295	Non-Participating Receptor	4.5	1492	Suncor WTG19	32.7	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0
2296	Non-Participating Receptor	4.5	1453	Suncor WTG19	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
2297	Non-Participating Receptor	4.5	1422	Suncor WTG19	32.9	32.9	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0
2298	Non-Participating Receptor	4.5	1397	Suncor WTG19	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2299	Non-Participating Receptor	4.5	1371	Suncor WTG19	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
2300	Non-Participating Receptor	4.5	1342	Suncor WTG19	33.3	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0
2301	Non-Participating Receptor	4.5	1447	Suncor WTG19	33.1	33.1	33.1	33.1	33.1	40.0	43.0	45.0	49.0	51.0
2302	Non-Participating Receptor	4.5	1502	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2303	Non-Participating Receptor	4.5	1556	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2304	Non-Participating Receptor	4.5	1583	Suncor WTG18	-	-	-	-	-	-	-	-	-	-
2305	Non-Participating Receptor	4.5	1688	Suncor WTG18	-	-	-	-	-	-	-	-	-	-
2306	Non-Participating Receptor	4.5	1715	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2307	Non-Participating Receptor	4.5	1672	Suncor WTG18	-	-	-	-	-	-	-	-	-	-
2308	Non-Participating Receptor	4.5	1655	Suncor WTG18	-	-	-	-	-	-	-	-	-	-
2309	Non-Participating Receptor	4.5	1504	Suncor WTG18	-	-	-	-	-	-	-	-	-	-
2310	Non-Participating Receptor	4.5	1468	Suncor WTG20	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
2311	Non-Participating Receptor	4.5	1436	Suncor WTG20	32.7	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0
2312	Non-Participating Receptor	4.5	1415	Suncor WTG20	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
2313	Non-Participating Receptor	4.5	1389	Suncor WTG20	32.9	32.9	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0
2314	Non-Participating Receptor	4.5	1366	Suncor WTG20	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
2315	Non-Participating Receptor	4.5	1403	Suncor WTG18	32.9	32.9	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0
2316	Non-Participating Receptor	4.5	1382	Suncor WTG18	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
2317	Non-Participating Receptor	4.5	1323	Suncor WTG18	33.3	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0
2318	Non-Participating Receptor	4.5	1319	Suncor WTG20	33.3	33.3	33.3	33.3	33.3	40.0	43.0	45.0	49.0	51.0
2319	Non-Participating Receptor	4.5	1365	Suncor WTG20	32.6	32.6	32.6	32.6	32.6	40.0	43.0	45.0	49.0	51.0
2320	Non-Participating Receptor	4.5	1198	Suncor WTG20	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
2321	Non-Participating Receptor	4.5	1250	Suncor WTG20	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
2322	Non-Participating Receptor	4.5	1528	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2323	Non-Participating Receptor	4.5	1509	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2324	Non-Participating Receptor	4.5	1554	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2325	Non-Participating Receptor	4.5	1570	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2326	Non-Participating Receptor	4.5	1588	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2327	Non-Participating Receptor	4.5	1604	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2328	Non-Participating Receptor	4.5	1625	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2329	Non-Participating Receptor	4.5	1645	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2330	Non-Participating Receptor	4.5	1687	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2331	Non-Participating Receptor	4.5	1710	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2332	Non-Participating Receptor	4.5	1732	Suncor WTG20	-	-	-	-	-	-	-	-	-	-
2333	Non-Participating Vacant Lot	4.5	973	Suncor WTG41	36.1	36.1	36.1	36.1	36.1	40.0	43.0	45.0	49.0	51.0
2334	Non-Participating Vacant Lot	4.5	972	Suncor WTG40	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
2335	Non-Participating Receptor	4.5	1123	Suncor WTG8	35.3	35.3	35.3	35.3	35.3	40.0	43.0	45.0	49.0	51.0
2336	Non-Participating Receptor	4.5	1940	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
2337	Non-Participating Receptor	4.5	1978	Suncor WTG54	-	-	-	-	-	-	-	-	-	-
2353	Non-Participating Vacant Lot	4.5	868	Suncor WTG69	37.8	37.8	37.8	37.8	37.8	40.0	43.0	45.0	49.0	51.0
2354	Non-Participating Receptor	4.5	1408	Suncor WTG47	30.4	30.4	30.4	30.4	30.4	40.0	43.0	45.0	49.0	51.0
2355	Non-Participating Receptor	4.5	1281	Suncor WTG18	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
2356	Non-Participating Vacant Lot	4.5	1143	Suncor WTG19	33.5	33.5	33.5	33.5	33.5	40.0	43.0	45.0	49.0	51.0
2357	Non-Participating Vacant Lot	4.5	1113	Suncor WTG19	33.7	33.7	33.7	33.7	33.7	40.0	43.0	45.0	49.0	51.0
2358	Non-Participating Vacant Lot	4.5	1338	Suncor WTG19	32.7	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0
2359	Non-Participating Vacant Lot	4.5	1337	Suncor WTG19	32.7	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0
2360	Non-Participating Vacant Lot	4.5	1472	Suncor WTG19	32.2	32.2	32.2	32.2	32.2	40.0	43.0	45.0	49.0	51.0
2361	Non-Participating Receptor	4.5	1443	Suncor WTG39	29.5	29.5	29.5	29.5	29.5	40.0	43.0	45.0	49.0	51.0
2435	Non-Participating Vacant Lot	4.5	1228	Suncor WTG43	34.4	34.4	34.4	34.4	34.4	40.0	43.0	45.0	49.0	51.0
2436	Non-Participating Vacant Lot	4.5	704	Suncor WTG51	38.6	38.6	38.6	38.6	38.6	40.0	43.0	45.0	49.0	51.0
2437	School	4.5	4976	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2438	Non-Participating Receptor	4.5	3072	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2440	Non-Participating Receptor	4.5	3680	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2441	Non-Participating Receptor	4.5	4904	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2443	Non-Participating Receptor	4.5	3921	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2444	Non-Participating Receptor	4.5	5222	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2446	Non-Participating Receptor	4.5	1481	Suncor WTG5	31.1	31.1	31.1	31.1	31.1	40.0	43.0	45.0	49.0	51.0
2447	Non-Participating Receptor	4.5	2918	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2448	Non-Participating Receptor	4.5	4925	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2449	Non-Participating Receptor	4.5	2839	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2451	Non-Participating Receptor	4.5	4961	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2452	Non-Participating Receptor	4.5	1586	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2453	Non-Participating Receptor	4.5	4927	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2454	Non-Participating Receptor	4.5	4845	Suncor WTG2	-	-	-	-	-	-	-	-	-	-

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2455	Non-Participating Receptor	4.5	4854	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2456	Non-Participating Receptor	4.5	5067	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2461	Non-Participating Receptor	4.5	5322	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2462	Non-Participating Receptor	4.5	3355	Suncor WTG9	-	-	-	-	-	-	-	-	-	-
2463	Non-Participating Receptor	4.5	3316	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2464	Non-Participating Receptor	4.5	5290	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2465	Non-Participating Receptor	4.5	3980	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2466	Non-Participating Receptor	4.5	4874	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2468	Non-Participating Vacant Lot	4.5	5021	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2469	Non-Participating Vacant Lot	4.5	3251	Suncor WTG8	-	-	-	-	-	-	-	-	-	-
2470	Non-Participating Vacant Lot	4.5	4183	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2471	Non-Participating Vacant Lot	4.5	5101	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2472	Non-Participating Vacant Lot	4.5	4031	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2473	Non-Participating Vacant Lot	4.5	2875	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2474	Non-Participating Vacant Lot	4.5	2795	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2475	Non-Participating Vacant Lot	4.5	5081	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2476	Non-Participating Vacant Lot	4.5	5136	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2477	Non-Participating Vacant Lot	4.5	5009	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2479	Non-Participating Vacant Lot	4.5	5439	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2480	Non-Participating Vacant Lot	4.5	5214	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2481	Non-Participating Vacant Lot	4.5	2324	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2482	Non-Participating Vacant Lot	4.5	4975	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2483	Non-Participating Vacant Lot	4.5	4924	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2484	Non-Participating Vacant Lot	4.5	3085	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2485	Non-Participating Vacant Lot	4.5	4031	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2486	Non-Participating Vacant Lot	4.5	4849	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2487	Non-Participating Vacant Lot	4.5	4939	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2488	Non-Participating Vacant Lot	4.5	5088	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2489	Non-Participating Receptor	4.5	4839	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2490	Non-Participating Vacant Lot	4.5	3604	Suncor WTG8	-	-	-	-	-	-	-	-	-	-
2491	Non-Participating Vacant Lot	4.5	2720	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2492	Non-Participating Vacant Lot	4.5	2969	Suncor WTG8	-	-	-	-	-	-	-	-	-	-
2494	Non-Participating Vacant Lot	4.5	3174	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2561	Non-Participating Receptor	4.5	1310	Suncor WTG43	34.6	34.6	34.6	34.6	34.6	40.0	43.0	45.0	49.0	51.0
2562	Non-Participating Vacant Lot	4.5	1311	Suncor WTG71	31.4	31.4	31.4	31.4	31.4	40.0	43.0	45.0	49.0	51.0
2563	Non-Participating Receptor	4.5	1457	Suncor WTG23	32.3	32.3	32.3	32.3	32.3	40.0	43.0	45.0	49.0	51.0
2566	Non-Participating Vacant Lot	4.5	763	Suncor WTG20	35.6	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0
2567	Non-Participating Receptor	4.5	1101	Suncor WTG26	32.7	32.7	32.7	32.7	32.7	40.0	43.0	45.0	49.0	51.0
2568	Non-Participating Vacant Lot	4.5	1106	Suncor WTG26	32.9	32.9	32.9	32.9	32.9	40.0	43.0	45.0	49.0	51.0
2569	Non-Participating Receptor	4.5	1464	Suncor WTG53	30.3	30.3	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0
2604	Non-Participating Vacant Lot	4.5	1228	Suncor WTG46	31.5	31.5	31.5	31.5	31.5	40.0	43.0	45.0	49.0	51.0
2605	Non-Participating Vacant Lot	4.5	1035	Suncor WTG46	33.0	33.0	33.0	33.0	33.0	40.0	43.0	45.0	49.0	51.0
2606	Non-Participating Vacant Lot	4.5	1058	Suncor WTG46	32.8	32.8	32.8	32.8	32.8	40.0	43.0	45.0	49.0	51.0
2607	Non-Participating Receptor	4.5	1565	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2609	Non-Participating Receptor	4.5	840	Suncor WTG44	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
2610	Non-Participating Receptor	4.5	1506	Suncor WTG69	-	-	-	-	-	-	-	-	-	-
2611	Non-Participating Receptor	4.5	1317	Suncor WTG26	29.7	29.7	29.7	29.7	29.7	40.0	43.0	45.0	49.0	51.0
2622	Non-Participating Receptor	4.5	1335	Suncor WTG20	33.2	33.2	33.2	33.2	33.2	40.0	43.0	45.0	49.0	51.0
2637	Non-Participating Vacant Lot	4.5	932	Suncor WTG18	35.6	35.6	35.6	35.6	35.6	40.0	43.0	45.0	49.0	51.0
2638	Non-Participating Receptor	4.5	1040	Suncor WTG18	35.0	35.0	35.0	35.0	35.0	40.0	43.0	45.0	49.0	51.0
2639	Non-Participating Receptor	4.5	1097	Suncor WTG8	35.4	35.4	35.4	35.4	35.4	40.0	43.0	45.0	49.0	51.0
2640	Non-Participating Vacant Lot	4.5	1489	Suncor WTG19	32.1	32.1	32.1	32.1	32.1	40.0	43.0	45.0	49.0	51.0
2641	Non-Participating Receptor	4.5	1685	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2642	Non-Participating Receptor	4.5	4925	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2643	Non-Participating Vacant Lot	4.5	5749	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2645	Non-Participating Vacant Lot	4.5	5325	Suncor WTG5	-	-	-	-	-	-	-	-	-	-
2646	Non-Participating Vacant Lot	4.5	5352	Suncor WTG9	-	-	-	-	-	-	-	-	-	-
2648	Non-Participating Vacant Lot	4.5	1638	Suncor WTG19	-	-	-	-	-	-	-	-	-	-
2649	Non-Participating Vacant Lot	4.5	1474	Suncor WTG23	31.2	31.2	31.2	31.2	31.2	40.0	43.0	45.0	49.0	51.0
2650	Non-Participating Vacant Lot	4.5	1521	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2651	Non-Participating Vacant Lot	4.5	1561	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2652	Non-Participating Vacant Lot	4.5	1615	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2653	Non-Participating Vacant Lot	4.5	1755	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2654	Non-Participating Vacant Lot	4.5	1851	Suncor WTG23	-	-	-	-	-	-	-	-	-	-

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2655	Non-Participating Vacant Lot	4.5	1778	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2657	Non-Participating Vacant Lot	4.5	1683	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2658	Non-Participating Vacant Lot	4.5	1726	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2659	Non-Participating Vacant Lot	4.5	1754	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2661	Non-Participating Vacant Lot	4.5	1864	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2662	Non-Participating Receptor	4.5	1848	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2663	Non-Participating Receptor	4.5	1836	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2664	Non-Participating Vacant Lot	4.5	1828	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2665	Non-Participating Vacant Lot	4.5	1803	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2666	Non-Participating Receptor	4.5	1791	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2667	Non-Participating Receptor	4.5	1789	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2668	Non-Participating Vacant Lot	4.5	1816	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2669	Non-Participating Receptor	4.5	1848	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2670	Non-Participating Receptor	4.5	1871	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2671	Non-Participating Vacant Lot	4.5	1894	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2672	Non-Participating Receptor	4.5	1912	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2673	Non-Participating Vacant Lot	4.5	1934	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2674	Non-Participating Receptor	4.5	1952	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2675	Non-Participating Receptor	4.5	1973	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2684	Non-Participating Receptor	4.5	1965	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2685	Non-Participating Receptor	4.5	1947	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2686	Non-Participating Receptor	4.5	1899	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2687	Non-Participating Receptor	4.5	1859	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2688	Non-Participating Receptor	4.5	1902	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2689	Non-Participating Receptor	4.5	1925	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2690	Non-Participating Receptor	4.5	1949	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2691	Non-Participating Receptor	4.5	1997	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2692	Non-Participating Vacant Lot	4.5	1921	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2693	Non-Participating Vacant Lot	4.5	1879	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2694	Non-Participating Vacant Lot	4.5	1969	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2696	Non-Participating Vacant Lot	4.5	1992	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2697	Non-Participating Receptor	4.5	1964	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2698	Non-Participating Receptor	4.5	1899	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2699	Non-Participating Receptor	4.5	1828	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2700	Non-Participating Receptor	4.5	1826	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2701	Non-Participating Receptor	4.5	1838	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2702	Non-Participating Receptor	4.5	1902	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2703	Non-Participating Receptor	4.5	1937	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2704	Non-Participating Receptor	4.5	1949	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2705	Non-Participating Receptor	4.5	1964	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2706	Non-Participating Receptor	4.5	1985	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2707	Non-Participating Receptor	4.5	1877	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2708	Non-Participating Vacant Lot	4.5	1855	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2709	Non-Participating Vacant Lot	4.5	1840	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2710	Non-Participating Vacant Lot	4.5	1852	Suncor WTG34	-	-	-	-	-	-	-	-	-	-
2711	Non-Participating Vacant Lot	4.5	747	Suncor WTG34	36.3	36.3	36.3	36.3	36.3	40.0	43.0	45.0	49.0	51.0
2712	Non-Participating Receptor	4.5	1971	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2713	Non-Participating Receptor	4.5	1954	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2714	Non-Participating Receptor	4.5	1890	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2715	Non-Participating Receptor	4.5	1935	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2716	Non-Participating Receptor	4.5	1865	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2717	Non-Participating Receptor	4.5	1919	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2718	Non-Participating Receptor	4.5	1914	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2719	Non-Participating Receptor	4.5	1851	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2720	Non-Participating Receptor	4.5	1843	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2721	Non-Participating Receptor	4.5	1908	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2722	Non-Participating Receptor	4.5	1891	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2723	Non-Participating Receptor	4.5	1810	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2724	Non-Participating Receptor	4.5	1853	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2725	Non-Participating Receptor	4.5	1796	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2726	Non-Participating Receptor	4.5	1841	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2727	Non-Participating Receptor	4.5	1790	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2728	Non-Participating Receptor	4.5	1827	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2729	Non-Participating Receptor	4.5	1765	Suncor WTG39	-	-	-	-	-	-	-	-	-	-



Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2730	Non-Participating Receptor	4.5	1817	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2731	Non-Participating Receptor	4.5	1764	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2732	Non-Participating Receptor	4.5	1753	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2733	Non-Participating Receptor	4.5	1807	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2734	Non-Participating Receptor	4.5	1742	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2735	Non-Participating Receptor	4.5	1779	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2736	Non-Participating Receptor	4.5	1718	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2737	Non-Participating Receptor	4.5	1761	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2738	Non-Participating Vacant Lot	4.5	1730	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2739	Non-Participating Receptor	4.5	1758	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2740	Non-Participating Receptor	4.5	1706	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2742	Non-Participating Receptor	4.5	1752	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2743	Non-Participating Receptor	4.5	1741	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2744	Non-Participating Receptor	4.5	1732	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2745	Non-Participating Receptor	4.5	1722	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2746	Non-Participating Receptor	4.5	1667	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2747	Non-Participating Vacant Lot	4.5	1699	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2748	Non-Participating Vacant Lot	4.5	1676	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2749	Non-Participating Receptor	4.5	1708	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2750	Non-Participating Receptor	4.5	1661	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2751	Non-Participating Receptor	4.5	1648	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2752	Non-Participating Receptor	4.5	1700	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2753	Non-Participating Receptor	4.5	1690	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2754	Non-Participating Receptor	4.5	1688	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2755	Non-Participating Receptor	4.5	1675	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2756	Non-Participating Receptor	4.5	1638	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2757	Non-Participating Receptor	4.5	1626	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2758	Non-Participating Receptor	4.5	1625	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2759	Non-Participating Receptor	4.5	1619	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2760	Non-Participating Receptor	4.5	1671	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2761	Non-Participating Receptor	4.5	1662	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2762	Non-Participating Receptor	4.5	1667	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2763	Non-Participating Receptor	4.5	1658	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2764	Non-Participating Receptor	4.5	1660	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2765	Non-Participating Vacant Lot	4.5	1643	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2766	Non-Participating Receptor	4.5	1612	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2767	Non-Participating Receptor	4.5	1604	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2768	Non-Participating Receptor	4.5	1597	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2769	Non-Participating Receptor	4.5	1600	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2770	Non-Participating Receptor	4.5	1593	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2771	Non-Participating Receptor	4.5	1593	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2772	Non-Participating Receptor	4.5	1647	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2773	Non-Participating Receptor	4.5	1655	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2774	Non-Participating Receptor	4.5	1651	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2775	Non-Participating Receptor	4.5	1594	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2776	Non-Participating Receptor	4.5	1643	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2777	Non-Participating Receptor	4.5	1642	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2778	Non-Participating Receptor	4.5	1659	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2779	Non-Participating Vacant Lot	4.5	1618	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2780	Non-Participating Vacant Lot	4.5	1597	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2781	Non-Participating Receptor	4.5	1619	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2782	Non-Participating Receptor	4.5	1634	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2783	Non-Participating Receptor	4.5	1647	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2784	Non-Participating Receptor	4.5	1651	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2785	Non-Participating Receptor	4.5	1668	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2786	Non-Participating Vacant Lot	4.5	1496	Suncor WTG39	29.4	29.4	29.4	29.4	29.4	40.0	43.0	45.0	49.0	51.0
2787	Non-Participating Receptor	4.5	1681	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2789	Non-Participating Receptor	4.5	1690	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2790	Non-Participating Receptor	4.5	1693	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2791	Non-Participating Receptor	4.5	1702	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2792	Non-Participating Receptor	4.5	1709	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2793	Non-Participating Receptor	4.5	1716	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2794	Non-Participating Receptor	4.5	1721	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2795	Non-Participating Receptor	4.5	1716	Suncor WTG39	-	-	-	-	-	-	-	-	-	-

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2796	Non-Participating Receptor	4.5	1718	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2797	Non-Participating Receptor	4.5	1739	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2798	Non-Participating Vacant Lot	4.5	1691	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2799	Non-Participating Receptor	4.5	1634	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2800	Non-Participating Receptor	4.5	1636	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2801	Non-Participating Receptor	4.5	1643	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2802	Non-Participating Receptor	4.5	1646	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2803	Non-Participating Receptor	4.5	1652	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2804	Non-Participating Receptor	4.5	1621	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2805	Non-Participating Receptor	4.5	1597	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2806	Non-Participating Receptor	4.5	1568	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2807	Non-Participating Receptor	4.5	1606	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2808	Non-Participating Receptor	4.5	1635	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2809	Non-Participating Receptor	4.5	1650	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2810	Non-Participating Receptor	4.5	1664	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2811	Non-Participating Receptor	4.5	1659	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2812	Non-Participating Receptor	4.5	1632	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2813	Non-Participating Receptor	4.5	1593	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2814	Non-Participating Vacant Lot	4.5	1612	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2815	Non-Participating Vacant Lot	4.5	1648	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2816	Non-Participating Vacant Lot	4.5	1685	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2817	Non-Participating Receptor	4.5	1746	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2818	Non-Participating Receptor	4.5	1752	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2819	Non-Participating Receptor	4.5	1758	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2820	Non-Participating Receptor	4.5	1772	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2821	Non-Participating Receptor	4.5	1780	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2822	Non-Participating Receptor	4.5	1786	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2823	Non-Participating Receptor	4.5	1793	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2824	Non-Participating Receptor	4.5	1697	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2825	Non-Participating Receptor	4.5	1682	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2826	Non-Participating Receptor	4.5	1666	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2827	Non-Participating Receptor	4.5	1649	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2828	Non-Participating Receptor	4.5	1634	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2829	Non-Participating Receptor	4.5	1619	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2830	Non-Participating Receptor	4.5	1713	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2831	Non-Participating Receptor	4.5	1697	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2832	Non-Participating Receptor	4.5	1680	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2833	Non-Participating Receptor	4.5	1665	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2834	Non-Participating Receptor	4.5	1653	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2835	Non-Participating Receptor	4.5	1681	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2836	Non-Participating Receptor	4.5	1699	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2837	Non-Participating Receptor	4.5	1713	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2838	Non-Participating Receptor	4.5	1726	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2840	Non-Participating Receptor	4.5	1731	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2841	Non-Participating Receptor	4.5	1715	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2842	Non-Participating Receptor	4.5	1702	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2843	Non-Participating Receptor	4.5	1684	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2844	Non-Participating Vacant Lot	4.5	1662	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2845	Non-Participating Receptor	4.5	1819	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2846	Non-Participating Receptor	4.5	1829	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2847	Non-Participating Receptor	4.5	1836	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2848	Non-Participating Receptor	4.5	1833	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2849	Non-Participating Receptor	4.5	1831	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2850	Non-Participating Receptor	4.5	1824	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2851	Non-Participating Receptor	4.5	1822	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2852	Non-Participating Receptor	4.5	1811	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2853	Non-Participating Receptor	4.5	1802	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2854	Non-Participating Receptor	4.5	1887	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2855	Non-Participating Vacant Lot	4.5	1681	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2856	Non-Participating Vacant Lot	4.5	1057	Suncor WTG44	33.8	33.8	33.8	33.8	33.8	40.0	43.0	45.0	49.0	51.0
2857	Non-Participating Receptor	4.5	1965	Suncor WTG80	-	-	-	-	-	-	-	-	-	-
2858	Non-Participating Receptor	4.5	1489	Suncor WTG47	30.3	30.3	30.3	30.3	30.3	40.0	43.0	45.0	49.0	51.0
2859	Non-Participating Receptor	4.5	1748	Suncor WTG39	-	-	-	-	-	-	-	-	-	-
2861	Non-Participating Vacant Lot	4.5	1449	Suncor WTG26	29.6	29.6	29.6	29.6	29.6	40.0	43.0	45.0	49.0	51.0

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds (m/s)					Sound Level Limit [dBA]				
					6	7	8	9	10	6	7	8	9	10
2863	Non-Participating Vacant Lot	4.5	2786	Suncor WTG2	-	-	-	-	-	-	-	-	-	-
2864	Non-Participating Vacant Lot	4.5	1531	Suncor WTG23	-	-	-	-	-	-	-	-	-	-
2865	Non-Participating Vacant Lot	4.5	1024	Suncor WTG39	33.4	33.4	33.4	33.4	33.4	40.0	43.0	45.0	49.0	51.0



ACOUSTICS



NOISE



VIBRATION

**Table A8: Wind Turbine Noise Impact Summary - Participating Receptor Locations**  
**Suncor Cedar Point Wind Power Project, No Cumulative Effects**

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds				
					6	7	8	9	10
3	Participating Receptor	4.5	738	Suncor WTG44	37.7	37.7	37.7	37.7	37.7
5	Participating Receptor	4.5	604	Suncor WTG40	38.5	38.5	38.5	38.5	38.5
8	Participating Receptor	4.5	919	Suncor WTG25	38.9	38.9	38.9	38.9	38.9
98	Participating Receptor	4.5	600	Suncor WTG44	38.4	38.4	38.4	38.4	38.4
118	Participating Receptor	4.5	705	Suncor WTG34	38.0	38.0	38.0	38.0	38.0
190	Participating Receptor	4.5	771	Suncor WTG17	37.8	37.8	37.8	37.8	37.8
191	Participating Receptor	4.5	726	Suncor WTG10	36.5	36.5	36.5	36.5	36.5
193	Participating Receptor	4.5	764	Suncor WTG15	37.9	37.9	37.9	37.9	37.9
448	Participating Receptor	4.5	723	Suncor WTG54	35.7	35.7	35.7	35.7	35.7
455	Participating Receptor	4.5	779	Suncor WTG48	36.7	36.7	36.7	36.7	36.7
465	Participating Receptor	4.5	986	Suncor WTG53	34.7	34.7	34.7	34.7	34.7
778	Participating Receptor	4.5	887	Suncor WTG51	36.5	36.5	36.5	36.5	36.5
807	Participating Receptor	4.5	680	Suncor WTG44	38.4	38.4	38.4	38.4	38.4
811	Participating Receptor	4.5	694	Suncor WTG41	37.8	37.8	37.8	37.8	37.8
828	Participating Receptor	4.5	568	Suncor WTG79	39.8	39.8	39.8	39.8	39.8
830	Participating Receptor	4.5	579	Suncor WTG80	38.5	38.5	38.5	38.5	38.5
831	Participating Receptor	7.5	823	Suncor WTG37	36.7	36.7	36.7	36.7	36.7
839	Participating Receptor	4.5	859	Suncor WTG35	38.0	38.0	38.0	38.0	38.0
841	Participating Receptor	4.5	744	Suncor WTG35	38.4	38.4	38.4	38.4	38.4
844	Participating Receptor	4.5	687	Suncor WTG70	39.2	39.2	39.2	39.2	39.2
845	Participating Receptor	4.5	759	Suncor WTG42	39.1	39.1	39.1	39.1	39.1
848	Participating Receptor	4.5	654	Suncor WTG72	39.6	39.6	39.6	39.6	39.6
856	Participating Receptor	4.5	636	Suncor WTG31	38.8	38.8	38.8	38.8	38.8
872	Participating Receptor	4.5	639	Suncor WTG31	38.0	38.0	38.0	38.0	38.0
935	Participating Receptor	4.5	674	Suncor WTG22	39.5	39.5	39.5	39.5	39.5
941	Participating Receptor	4.5	676	Suncor WTG25	39.3	39.3	39.3	39.3	39.3
953	Participating Receptor	4.5	1000	Suncor WTG22	37.8	37.8	37.8	37.8	37.8
987	Participating Receptor	4.5	653	Suncor WTG17	38.4	38.4	38.4	38.4	38.4
992	Participating Receptor	4.5	842	Suncor WTG10	35.3	35.3	35.3	35.3	35.3
1016	Participating Receptor	4.5	689	Suncor WTG20	36.2	36.2	36.2	36.2	36.2
1031	Participating Receptor	4.5	726	Suncor WTG16	37.0	37.0	37.0	37.0	37.0
1039	Participating Receptor	4.5	677	Suncor WTG82	38.9	38.9	38.9	38.9	38.9
1042	Participating Receptor	4.5	753	Suncor WTG7	38.8	38.8	38.8	38.8	38.8
1045	Participating Receptor	4.5	669	Suncor WTG11	37.1	37.1	37.1	37.1	37.1
1048	Participating Receptor	4.5	750	Suncor WTG11	37.0	37.0	37.0	37.0	37.0
1049	Participating Receptor	7.5	779	Suncor WTG4	37.7	37.7	37.7	37.7	37.7
1050	Participating Receptor	4.5	1196	Suncor WTG1	33.4	33.4	33.4	33.4	33.4
1094	Participating Receptor	7.5	678	Suncor WTG2	37.4	37.4	37.4	37.4	37.4
1274	Participating Vacant Lot	4.5	943	Suncor WTG54	34.6	34.6	34.6	34.6	34.6
1276	Participating Vacant Lot	4.5	702	Suncor WTG51	37.5	37.5	37.5	37.5	37.5
1277	Participating Vacant Lot	4.5	819	Suncor WTG51	37.3	37.3	37.3	37.3	37.3
1282	Participating Vacant Lot	4.5	785	Suncor WTG51	37.4	37.4	37.4	37.4	37.4
1283	Participating Vacant Lot	4.5	655	Suncor WTG51	37.8	37.8	37.8	37.8	37.8
1288	Participating Vacant Lot	4.5	765	Suncor WTG53	35.6	35.6	35.6	35.6	35.6
1293	Participating Vacant Lot	4.5	748	Suncor WTG44	36.2	36.2	36.2	36.2	36.2
1307	Participating Vacant Lot	4.5	843	Suncor WTG50	35.2	35.2	35.2	35.2	35.2
1313	Participating Vacant Lot	4.5	1198	Suncor WTG43	34.4	34.4	34.4	34.4	34.4
1318	Participating Vacant Lot	4.5	362	Suncor WTG39	41.6	41.6	41.6	41.6	41.6
1348	Participating Vacant Lot	4.5	790	Suncor WTG69	37.4	37.4	37.4	37.4	37.4
1354	Participating Vacant Lot	4.5	810	Suncor WTG69	37.7	37.7	37.7	37.7	37.7
1363	Participating Vacant Lot	4.5	906	Suncor WTG69	38.1	38.1	38.1	38.1	38.1
1366	Participating Vacant Lot	4.5	1015	Suncor WTG81	36.5	36.5	36.5	36.5	36.5
1370	Participating Vacant Lot	4.5	802	Suncor WTG70	38.6	38.6	38.6	38.6	38.6
1376	Participating Vacant Lot	4.5	728	Suncor WTG35	38.4	38.4	38.4	38.4	38.4
1394	Participating Vacant Lot	4.5	695	Suncor WTG72	38.0	38.0	38.0	38.0	38.0
1401	Participating Vacant Lot	4.5	460	Suncor WTG71	39.4	39.4	39.4	39.4	39.4
1410	Participating Vacant Lot	4.5	540	Suncor WTG31	40.4	40.4	40.4	40.4	40.4

Point of Reception ID	Description	Height [m]	Distance to Nearest Suncor Cedar Point Turbine [m]	Nearest Turbine ID	Calculated Sound Level [dBA] at Selected Wind Speeds				
					6	7	8	9	10
1416	Participating Vacant Lot	4.5	1257	Suncor WTG23	32.4	32.4	32.4	32.4	32.4
1419	Participating Vacant Lot	4.5	892	Suncor WTG31	37.5	37.5	37.5	37.5	37.5
1443	Participating Vacant Lot	4.5	592	Suncor WTG27	38.2	38.2	38.2	38.2	38.2
1478	Participating Vacant Lot	4.5	742	Suncor WTG25	39.4	39.4	39.4	39.4	39.4
1485	Participating Vacant Lot	4.5	1053	Suncor WTG22	36.5	36.5	36.5	36.5	36.5
1488	Participating Vacant Lot	4.5	665	Suncor WTG19	38.8	38.8	38.8	38.8	38.8
1490	Participating Vacant Lot	4.5	966	Suncor WTG22	37.5	37.5	37.5	37.5	37.5
1530	Participating Vacant Lot	4.5	225	Suncor WTG13	44.9	44.9	44.9	44.9	44.9
1548	Participating Vacant Lot	4.5	673	Suncor WTG17	38.3	38.3	38.3	38.3	38.3
1554	Participating Vacant Lot	4.5	657	Suncor WTG13	37.9	37.9	37.9	37.9	37.9
1557	Participating Vacant Lot	4.5	743	Suncor WTG18	37.9	37.9	37.9	37.9	37.9
1561	Participating Vacant Lot	4.5	768	Suncor WTG17	38.0	38.0	38.0	38.0	38.0
1567	Participating Vacant Lot	7.5	952	Suncor WTG10	35.5	35.5	35.5	35.5	35.5
1586	Participating Vacant Lot	4.5	659	Suncor WTG29	36.1	36.1	36.1	36.1	36.1
1588	Participating Vacant Lot	4.5	693	Suncor WTG29	35.8	35.8	35.8	35.8	35.8
1600	Participating Vacant Lot	4.5	985	Suncor WTG26	33.2	33.2	33.2	33.2	33.2
1607	Participating Vacant Lot	4.5	705	Suncor WTG16	36.8	36.8	36.8	36.8	36.8
1609	Participating Vacant Lot	4.5	916	Suncor WTG11	36.3	36.3	36.3	36.3	36.3
1628	Participating Vacant Lot	4.5	821	Suncor WTG8	37.6	37.6	37.6	37.6	37.6
1629	Participating Vacant Lot	4.5	793	Suncor WTG82	38.3	38.3	38.3	38.3	38.3
1631	Participating Vacant Lot	4.5	717	Suncor WTG6	38.7	38.7	38.7	38.7	38.7
1632	Participating Vacant Lot	4.5	844	Suncor WTG4	35.9	35.9	35.9	35.9	35.9
1635	Participating Vacant Lot	4.5	884	Suncor WTG6	37.8	37.8	37.8	37.8	37.8
1651	Participating Receptor	4.5	713	Suncor WTG1	35.6	35.6	35.6	35.6	35.6
1666	Participating Vacant Lot	4.5	722	Suncor WTG2	36.8	36.8	36.8	36.8	36.8
2442	Participating Receptor	4.5	2964	Suncor WTG5	-	-	-	-	-
2450	Participating Receptor	4.5	2892	Suncor WTG2	-	-	-	-	-
2478	Participating Vacant Lot	4.5	2783	Suncor WTG2	-	-	-	-	-
2493	Participating Vacant Lot	4.5	3008	Suncor WTG5	-	-	-	-	-
2862	Participating Receptor	4.5	750	Suncor WTG5	36.6	36.6	36.6	36.6	36.6



**Table A9: Transformer Noise Impact Summary - Non-Participating Receptor Locations  
Suncor Cedar Point Wind Power Project**

<b>Point of Reception ID</b>	<b>Description</b>	<b>Height [m]</b>	<b>Distance to Transformers [m]</b>	<b>Calculated Sound Level [dBA]</b>	<b>Sound Level Limit [dBA]</b>
896	Non-Participating Receptor	4.5	1201	24.5	40.0
938	Non-Participating Receptor	4.5	1239	28.7	40.0
943	Non-Participating Receptor	4.5	1086	30.1	40.0
945	Non-Participating Receptor	4.5	1317	28.0	40.0
947	Non-Participating Receptor	4.5	1188	29.1	40.0
950	Non-Participating Receptor	4.5	1047	30.5	40.0
1430	Non-Participating Vacant Lot	4.5	1272	23.9	40.0
1431	Non-Participating Vacant Lot	4.5	1174	24.8	40.0
1435	Non-Participating Vacant Lot	4.5	1042	26.0	40.0
1437	Non-Participating Vacant Lot	4.5	997	26.5	40.0
1480	Non-Participating Vacant Lot	4.5	1139	29.6	40.0
1487	Non-Participating Vacant Lot	4.5	1471	26.7	40.0
1489	Non-Participating Vacant Lot	4.5	1014	30.9	40.0

\* All other points of reception greater than 1500m from the transformers.



ACOUSTICS



NOISE



VIBRATION

**Table A10: Transformer Noise Impact Summary - Participating Receptor Locations  
Suncor Cedar Point Wind Power Project**

Point of Reception ID	Description	Height [m]	Distance to Transformers [m]	Calculated Sound Level [dBA]	Sound Level Limit [dBA]
8	Participating Receptor	4.5	900	32.5	40.0
935	Participating Receptor	4.5	907	32.4	40.0
941	Participating Receptor	4.5	924	32.2	40.0
953	Participating Receptor	4.5	1151	29.5	40.0
1478	Participating Vacant Lot	4.5	860	33.0	40.0
1488	Participating Vacant Lot	4.5	1097	30	40.0
1490	Participating Vacant Lot	4.5	1259	28.5	40.0

\* All other points of reception greater than 1500m from the transformers.



ACOUSTICS



NOISE



VIBRATION

# APPENDIX B: Zoning Maps



ACOUSTICS



NOISE



VIBRATION

Amended B/L 24 of 2005, April 18, 2005  
 Amended B/L 42 of 2005, June 6, 2005  
 Amended B/L 43 of 2005, June 6, 2005  
 Amended B/L 50 of 2005, July 8, 2005  
 Amended B/L 74 of 2005, November 7, 2005  
 Amended B/L 12 of 2006, January 19, 2006 (Temporary Use to Jan. 2009)  
 Amended B/L 13 of 2006, January 19, 2006 (Temporary Use to Jan. 2009)  
 Amended B/L 39 of 2006, May 18, 2006  
 Amended B/L 55 of 2006, August 3, 2006 (Temporary Use to Aug. 3, 2009)  
 Amended B/L 70 of 2006, November 2, 2006 (Temporary Use to Nov. 2, 2009)  
 Amended B/L 73 of 2006, November 2, 2006  
 Amended B/L 7 of 2007, January 22, 2007  
 Amended B/L 11 of 2007, January 22, 2007  
 Amended B/L 25 of 2007, March 19, 2007  
 Amended B/L 33 of 2007, April 16, 2007  
 Amended B/L 34 of 2007, April 16, 2007  
 Amended B/L 35 of 2007, April 16, 2007  
 Amended B/L 36 of 2007, April 16, 2007  
 Amended B/L 37 of 2007, April 16, 2007  
 Amended B/L 38 of 2007, April 16, 2007  
 Amended B/L 39 of 2007, April 16, 2007  
 Amended B/L 40 of 2007, April 16, 2007  
 Amended B/L 41 of 2007, April 16, 2007  
 Amended B/L 42 of 2007, April 16, 2007  
 Amended B/L 43 of 2007, April 16, 2007  
 Amended B/L 65 of 2007, July 3, 2007  
 Amended B/L 73 of 2007, September 4, 2007  
 Amended B/L 8 of 2008, February 4, 2008  
 Amended B/L 29 of 2008, May 5, 2008  
 Amended B/L 39 of 2008, July 7, 2008  
 Amended B/L 50 of 2008, August 5, 2008  
 Amended B/L 68 of 2008, October 6, 2008  
 Amended B/L 82 of 2008, November 17, 2008  
 Amended B/L 13 of 2009, April 14, 2009  
 Amended B/L 14 of 2009, April 14, 2009  
 Amended B/L 63 of 2009, September 21, 2009  
 Amended B/L 71 of 2009, November 2, 2009  
 Amended B/L 9 of 2010, February 8, 2010  
 Amended B/L 24 of 2010, May 3, 2010  
 Amended B/L 71 of 2010, August 9, 2010  
 Amended B/L 4 of 2011, January 10, 2011  
 Amended B/L 6 of 2011, January 10, 2011  
 Amended B/L 56 of 2011, June 20, 2011  
 Amended B/L 71 of 2011, August 8, 2011

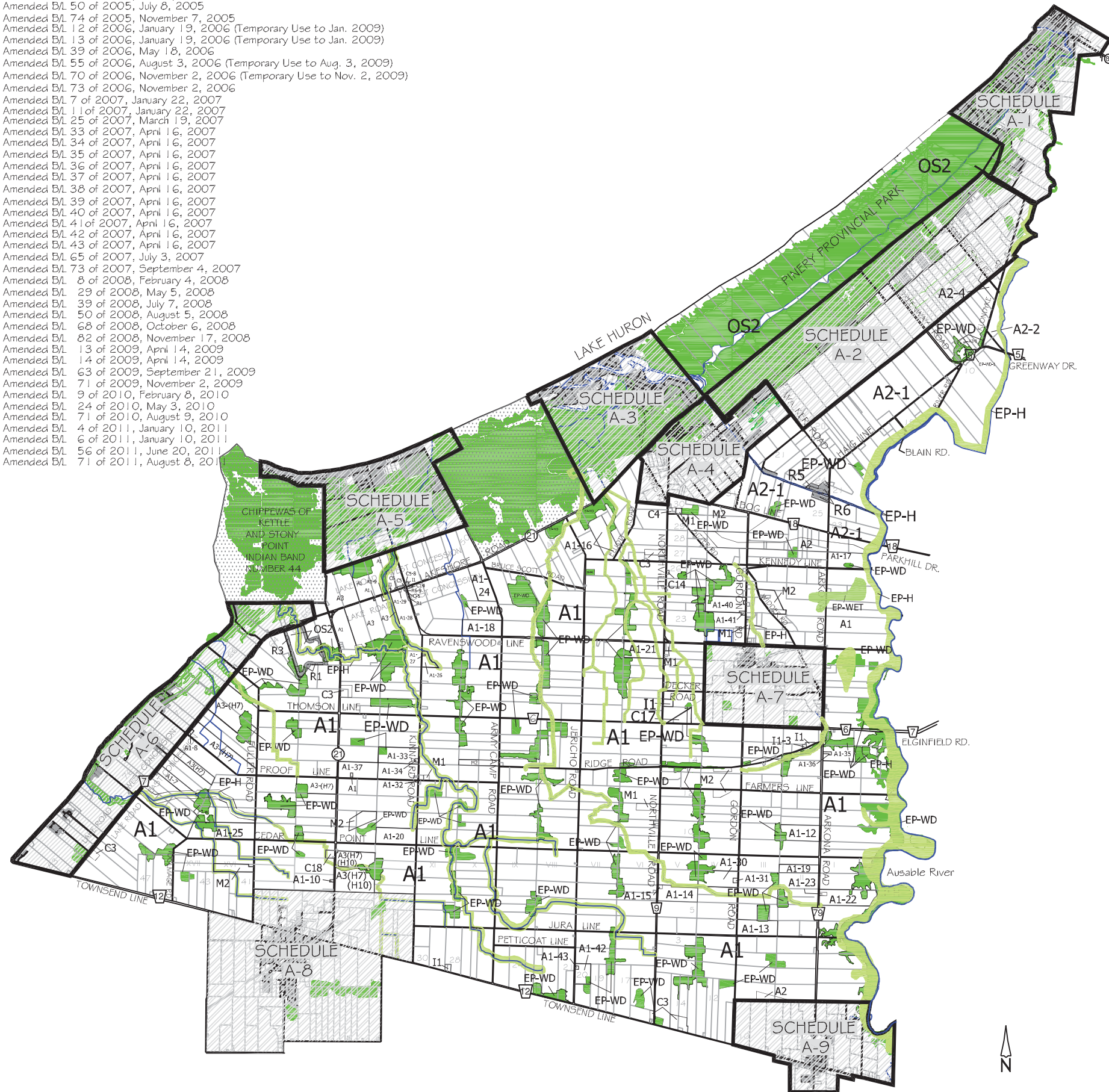
MUNICIPALITY OF LAMBTON SHORES  
 SCHEDULE "A"  
 TO BY-LAW NO. 1 OF 2003  
 PASSED THIS 3 DAY OF February, 2003

J.C. Ivey, Mayor

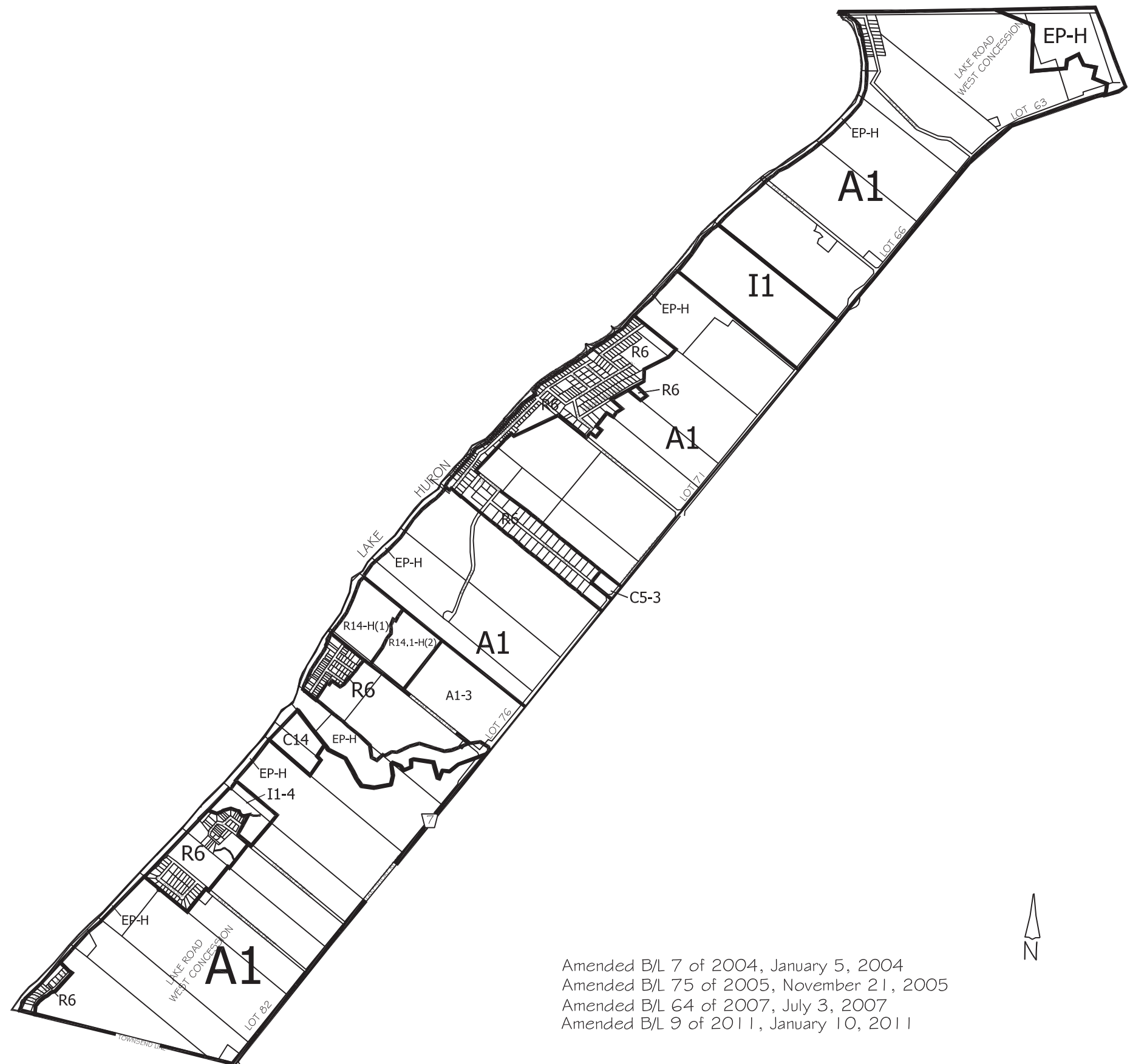
Carol McKenzie, Clerk

LEGEND

SYMBOL	ZONE
A1	AGRICULTURAL
A2	AGRICULTURAL
A3	AGRICULTURAL COMMERCIAL WIND ENERGY CONVERSION SYSTEM - 3
C3	COMMERCIAL
C4	COMMERCIAL
C5	COMMERCIAL
C6	COMMERCIAL
C10	COMMERCIAL
C14	COMMERCIAL
C17	COMMERCIAL
C18	COMMERCIAL
EP-H	ENVIRONMENTAL PROTECTION
EP-WET	WETLAND
EP-WD	WOODLOTS
I1	INSTITUTIONAL
M1	INDUSTRIAL
M2	INDUSTRIAL
OS2	OPEN SPACE
R1	RESIDENTIAL
R3	RESIDENTIAL
R6	RESIDENTIAL
R5	RESIDENTIAL
[Dotted Box]	LANDS NOT UNDER MUNICIPAL JURISDICTION



PREPARED BY:  
 COUNTY OF LAMBTON  
 PLANNING AND DEVELOPMENT DEPARTMENT  
 FEBRUARY, 2003



Amended B/L 7 of 2004, January 5, 2004  
 Amended B/L 75 of 2005, November 21, 2005  
 Amended B/L 64 of 2007, July 3, 2007  
 Amended B/L 9 of 2011, January 10, 2011



MUNICIPALITY OF LAMBTON SHORES  
 SCHEDULE "A-6"  
 TO BY-LAW NO. 1 2003

PASSED THIS 3 DAY OF February, 2003

J.C. IVEY, MAYOR

CAROL McKENZIE, CLERK

LEGEND

SYMBOL	ZONE
A1	AGRICULTURE - 1
C5	COMMERCIAL - 5
C14	COMMERCIAL - 14
EP-H	ENVIRONMENTAL PROTECTION - HAZARD
I1	INSTITUTIONAL - 1
R6	RESIDENTIAL - 6
R12	RESIDENTIAL - 12
-H1,-H2..	HOLDING PROVISIONS
-1,-2,..	EXCEPTIONS



PREPARED BY:  
 COUNTY OF LAMBTON  
 PLANNING AND DEVELOPMENT DEPARTMENT  
 FEBRUARY, 2003



MUNICIPALITY OF LAMBTON SHORES  
 SCHEDULE "A-8" (FOREST)  
 TO BY-LAW NO.   1   OF 2003

PASSED THIS   3   DAY OF   February  , 2003

J.C. IVEY, MAYOR

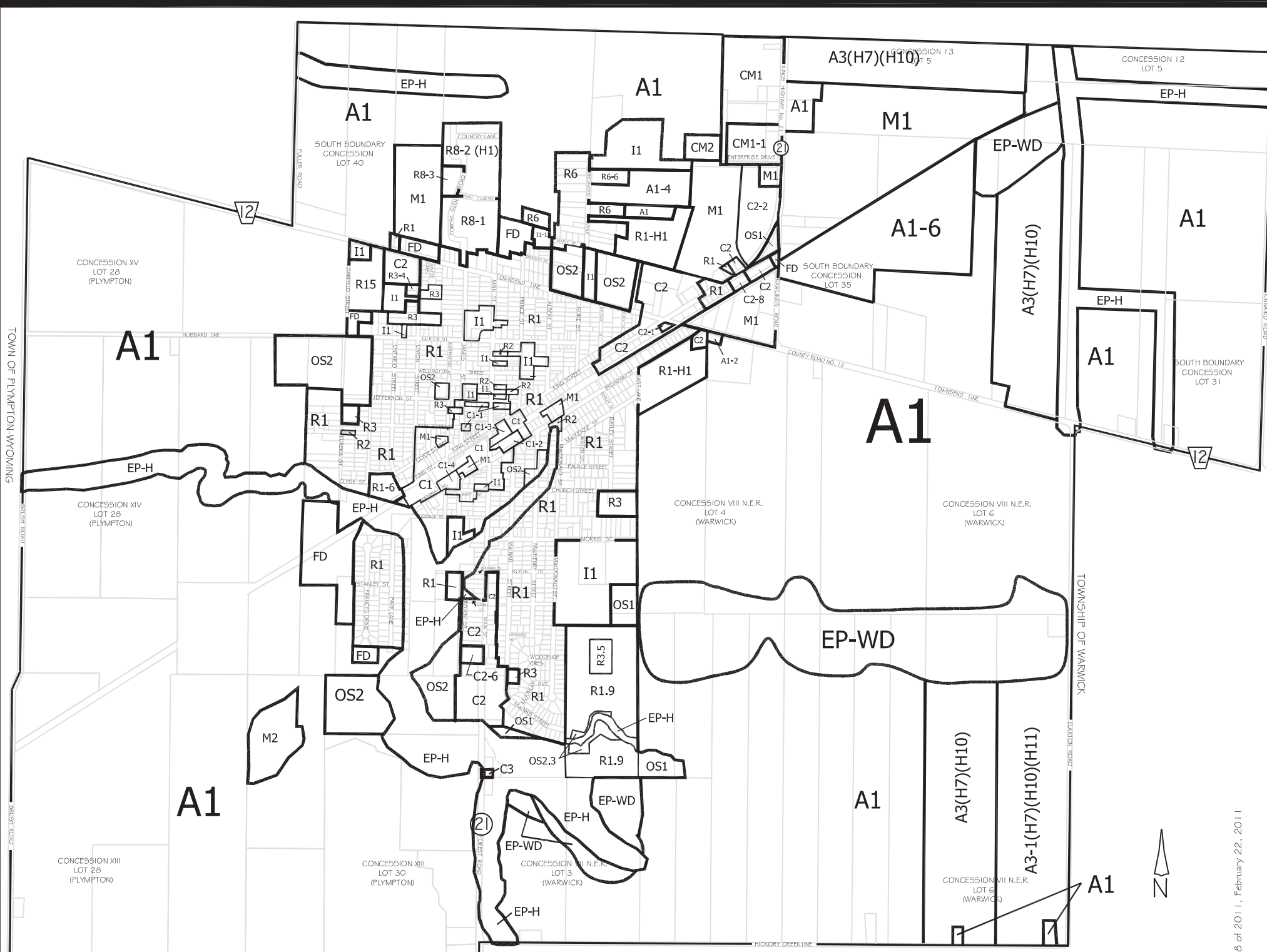
CAROL MCKENZIE, CLERK

LEGEND

SYMBOL	ZONE
A1	AGRICULTURAL - 1
A3	AGRICULTURAL COMMERCIAL
	WIND ENERGY CONVERSION SYSTEM - 3
C1	COMMERCIAL - 1
C2	COMMERCIAL - 2
C3	COMMERCIAL - 3
CM1	MIXED COMMERCIAL/INDUSTRIAL - 1
CM2	MIXED COMMERCIAL/INDUSTRIAL - 2
EP-H	ENVIRONMENTAL PROTECTION - HAZARD
EP-WD	ENVIRONMENTAL PROTECTION - WOODLOT
FD	FUTURE DEVELOPMENT
I1	INSTITUTIONAL - 1
M1	INDUSTRIAL-1
M2	INDUSTRIAL-2
OS1	OPEN SPACE - 1
OS2	OPEN SPACE - 2
R1	RESIDENTIAL - 1
R2	RESIDENTIAL - 2
R3	RESIDENTIAL - 3
R6	RESIDENTIAL - 6
R8	RESIDENTIAL - 8
R15	RESIDENTIAL - 15
-H1,-H2..	HOLDING PROVISIONS
-1,-2,..	EXCEPTIONS



PREPARED BY:  
 COUNTY OF LAMBTON  
 PLANNING AND DEVELOPMENT  
 DEPARTMENT  
 FEBRUARY, 2003



Amended B/L 54 of 2003, October 8, 2003  
 Amended B/L 12 of 2004, February 16, 2004  
 Amended B/L 25 of 2004, April 5, 2004  
 Amended B/L 47 of 2004, June 21, 2004  
 Amended B/L 65 of 2004, October 4, 2004  
 Amended B/L 18 of 2005, April 4, 2005  
 Amended B/L 67 of 2005, October 17, 2005

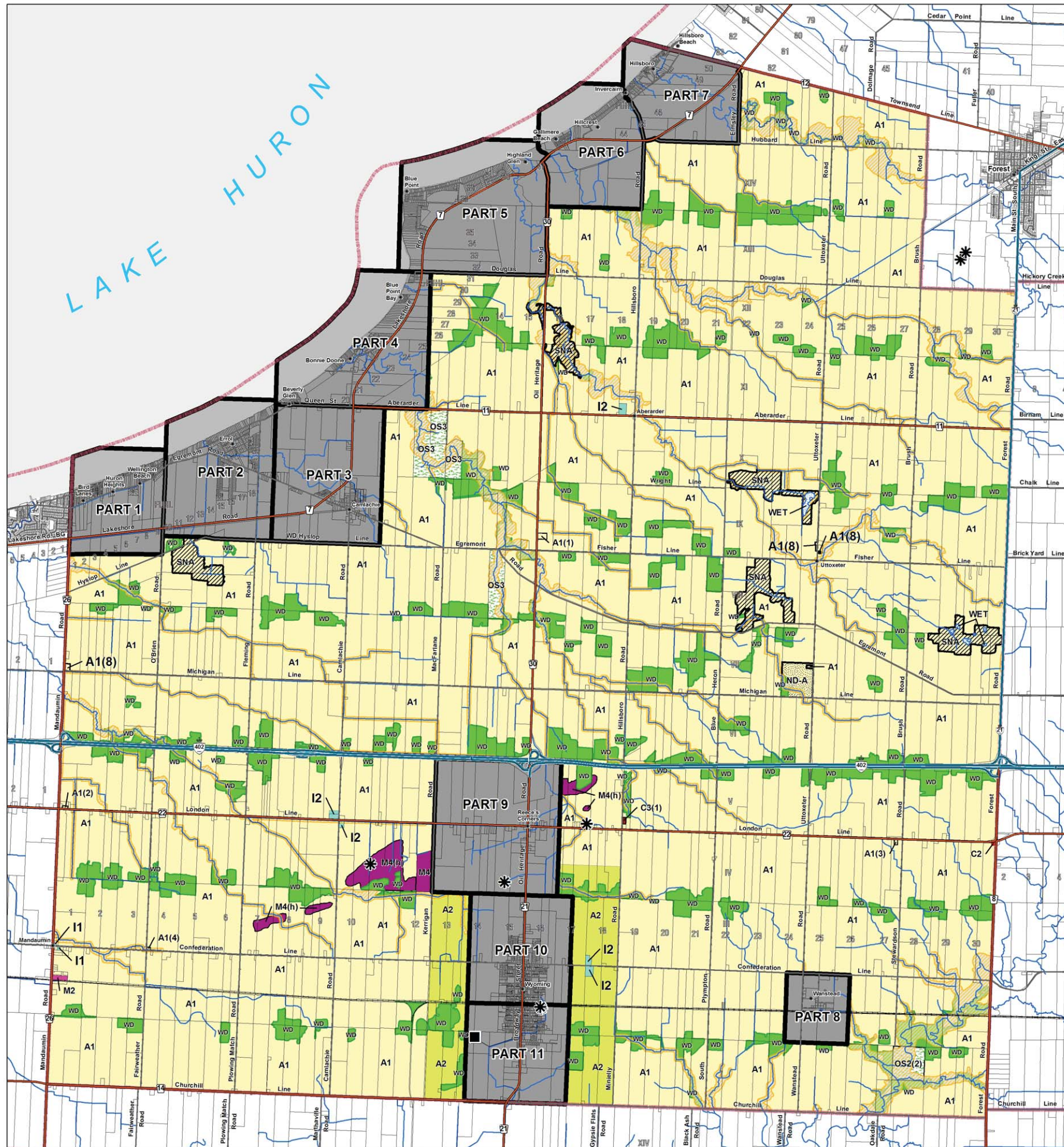
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 Amended B/L 83 of 2005, December 19, 2005  
 Amended B/L 37 of 2006, May 18, 2006  
 Amended B/L 55 of 2006, August 3, 2006  
 Amended B/L 58 of 2006, August 7, 2006  
 Amended B/L 71 of 2006, November 2, 2006  
 Amended B/L 84 of 2007, October 1, 2007

Amended B/L 96 of 2007, December 17, 2007  
 Amended B/L 13 of 2009, April 14, 2009  
 Amended B/L 15 of 2009, April 14, 2009  
 Amended B/L 20 of 2009, April 14, 2009  
 Amended B/L 34 of 2009, June 15, 2009  
 Amended B/L 65 of 2009, October 5, 2009  
 Amended B/L 79 of 2009, November 16, 2009

Amended B/L 18 of 2011, February 22, 2011



# Town of Plympton-Wyoming ZONING BY-LAW SCHEDULE "A"

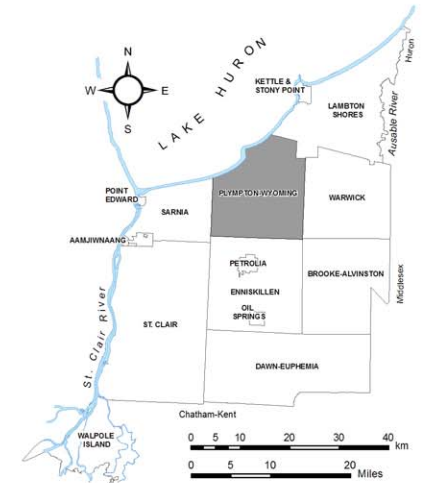


## LEGEND

- Assessment Parcels
- Rivers - Streams - Drainage
- Roads
- County Road
- Provincial Highway
- Railroad
- Waterbodies
- Sewage Treatment Works
- Former Waste Disposal Site (Anderson Dataset : Lambton GWS 2004)
- Municipal Boundary
- Schedule Inset Boundaries ("Part 1"..... "Part 11")

## Zoning Index

- A1 Agricultural - 1
  - A2 Agricultural - 2
  - C2 Highway Commercial - 2
  - C3 Rural Commercial - 3
  - I1 Institutional - 1
  - I2 Institutional - 2
  - M2 Light Industrial - 2
  - M4 Extractive Industrial - 4
  - OS2 Open Space - 2
  - OS3 Open Space - 3
  - ND-A No Dwelling - Agricultural
  - WD Significant Woodlot
  - H Hazard Area
  - WET Wetland
  - SNA Locally Significant Natural Area
- \* Temporary Use ...T1  
\* Zone Exceptions ...(-1), ...(-2)  
\* Holding Zones ... (h)  
\* NOTE: For Zones with these suffixes refer to the text of the by-law for applicable zoning provisions.



## Reference

Disclaimer: These digital mapping products have been produced on the County of Lambton's Geographic Information System. Data provided herein is derived from sources with varying levels of accuracy and currency. This is not a survey product. The County of Lambton disclaims all responsibility for the accuracy or completeness of information contained herein. The County of Lambton assumes no responsibility for errors arising from use of these digital mapping products.

The Zoning By-law information contained herein is current as of the last recorded amendment noted under "By-law Amendments".

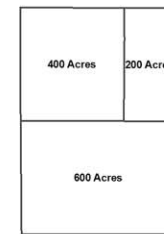
- Cadastral database is current to May 2010.
- Wetlands database is current to March 2010 (MNR).
- Hazard Areas are determined by local Conservation Authorities and are Subject to Change.

Projection: UTM NAD 83 Zone 17

COUNTY OF LAMBTON  
Planning and Development Services, October 2010

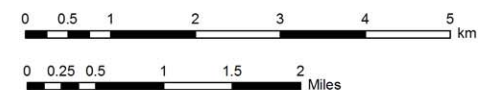
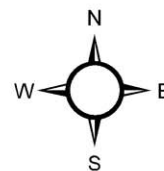
www.lambtononline.ca

### Area Estimator



Notes: Area Estimator generalized blocks (shown at left) are scaled to represent typical area measures.

Acre area measures can be converted to hectares (ha) by dividing by (2.471).



## Town of Plympton-Wyoming ZONING BY-LAW SCHEDULE "A"

to By-law No. 97 of 2003

Passed this 26 day of Nov, 2003

Lonny Napper, Mayor

Caroline DeSchutter, Clerk

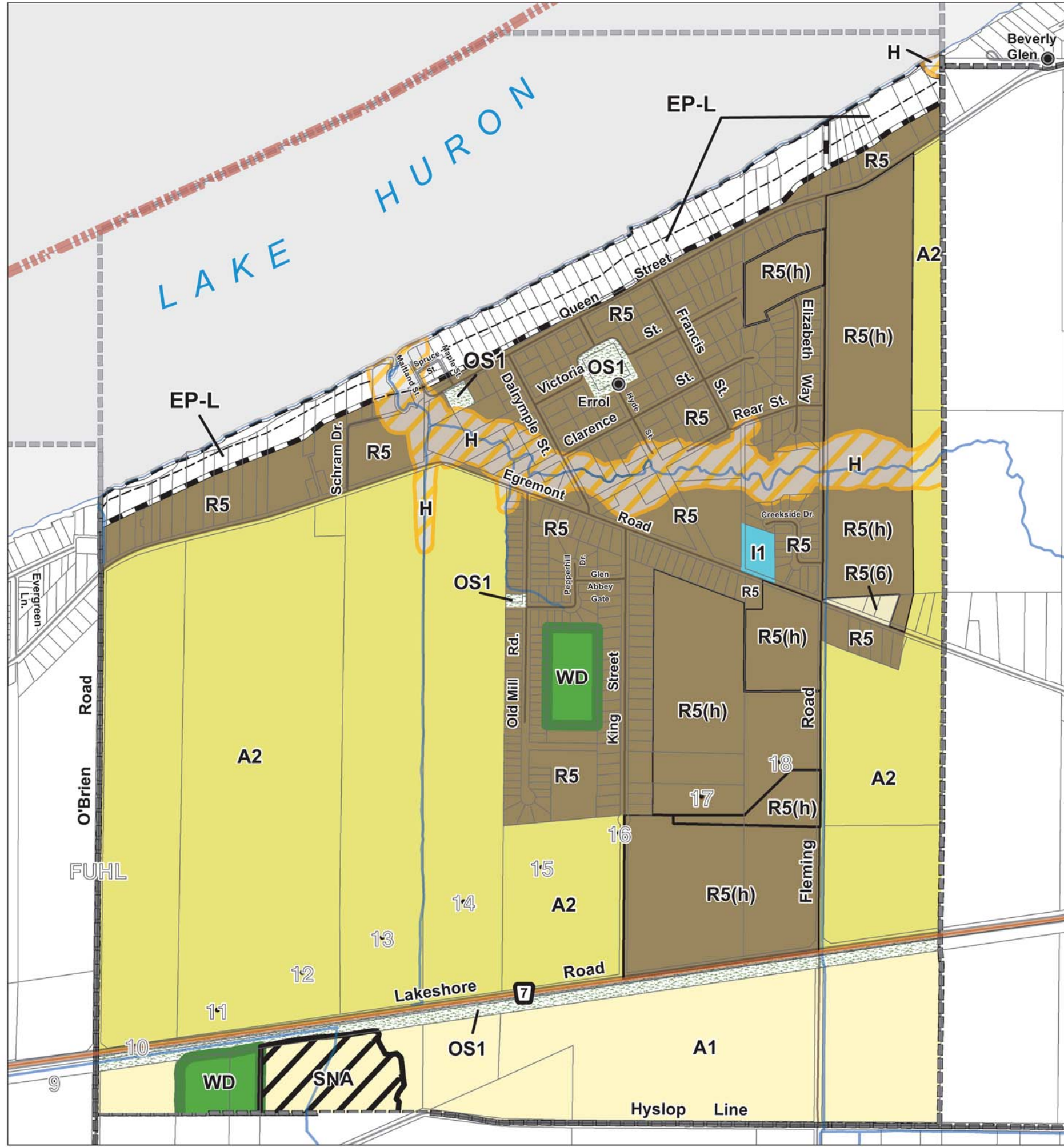
### By-law Amendments

33 of 2011, April 13/2011





# Town of Plympton-Wyoming ZONING BY-LAW PART 2 to Schedule "A" (Errol Village)



### LEGEND

- Assessment Parcels
- Rivers - Streams - Drainage
- Roads
- Provincial Highway
- Railroad
- Waterbodies
- Municipal Boundary
- Schedule Inset Boundaries ("Part 1" ..... "Part 11")

### Zoning Index

- A1 Agricultural - 1
- A2 Agricultural - 2
- R5 Residential - 5
- I1 Institutional - 1
- OS1 Open Space - 1
- EP-L Environmental Protection - Lakeshore
- WD Significant Woodlot
- H Hazard Area
- SNA Locally Significant Natural Area

- \* Temporary Use ...-T1
- \* Zone Exceptions ...(-1), ...(-2)
- \* Holding Zones ...(-h)
- \* NOTE: For Zones with these suffixes refer to the text of the by-law for applicable zoning provisions.

### Reference

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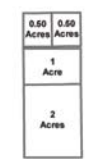
- Cadastral database is current to May 2010.
- Wetlands database is current to March 2010 (MNR).
- Hazard Areas are determined by local Conservation Authorities and are Subject to Change.

Projection: UTM NAD 83 Zone 17

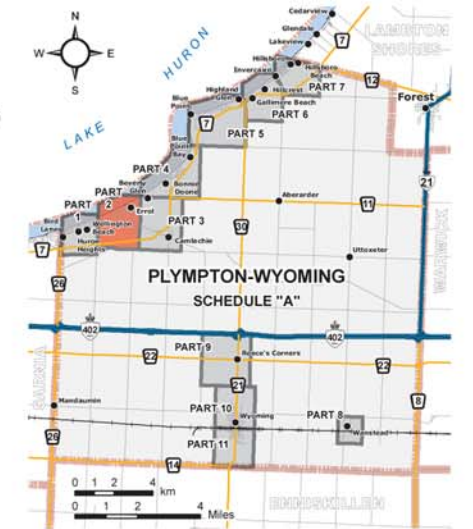
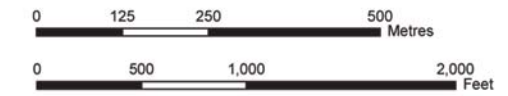
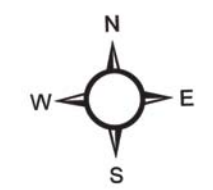
COUNTY OF LAMBTON  
Planning and Development Services, May 2011

www.lambtononline.ca

### Area Estimator



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## Town of Plympton-Wyoming ZONING BY-LAW PART 2 to Schedule "A" (Errol Village)

to By-law No. 97 of 2003  
Passed this 26 day of Nov, 2003

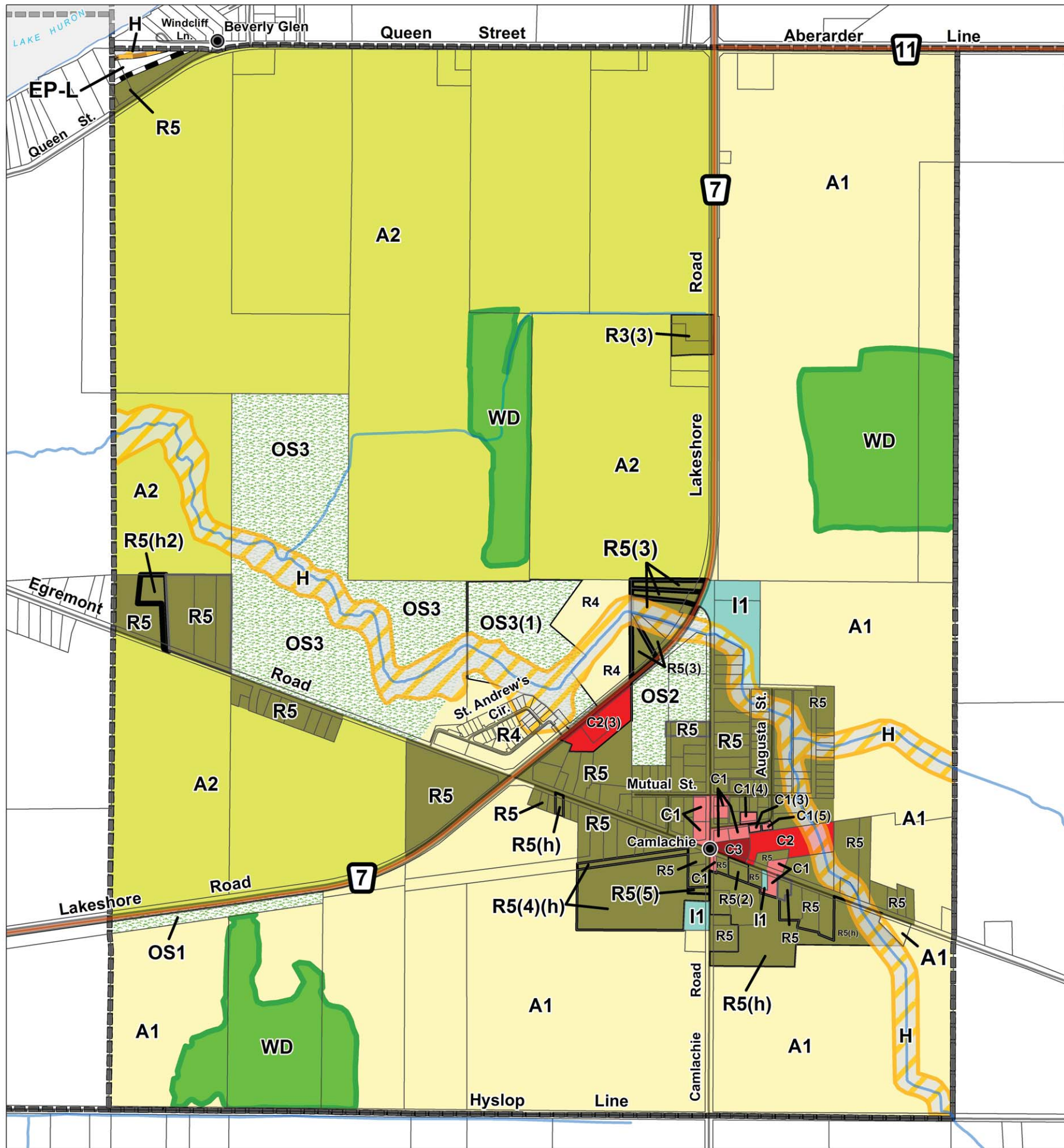
Lonny Napper, Mayor

Caroline DeSchutter, Clerk

By-law Amendments  
ZBA 47 of 2011, June 29, 2011  
ZBA 83 of 2011, October 24, 2011







# Town of Plympton-Wyoming ZONING BY-LAW PART 3 to Schedule "A" (Camlachie)

## LEGEND

- Assessment Parcels
- Rivers - Streams - Drainage
- Roads
- County Road
- Provincial Highway
- Railroad
- Waterbodies
- Municipal Boundary
- Schedule Inset Boundaries ("Part 1"..... "Part 11")

## Zoning Index

- A1 Agricultural - 1
  - A2 Agricultural - 2
  - R3 Residential - 3
  - R4 Residential - 4
  - R5 Residential - 5
  - C1 Central Commercial - 1
  - C2 Highway Commercial - 2
  - C3 Rural Commercial - 3
  - I1 Institutional - 1
  - OS1 Open Space - 1
  - OS2 Open Space - 2
  - OS3 Open Space - 3
  - EP-L Environmental Protection - Lakeshore
  - WD Significant Woodlot
  - H Hazard Area
- \* Temporary Use ...-T1  
 \* Zone Exceptions ...(-1), ...(-2)  
 \* Holding Zones ...(-h)  
 \* NOTE: For Zones with these suffixes refer to the text of the by-law for applicable zoning provisions.

## Reference

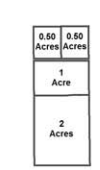
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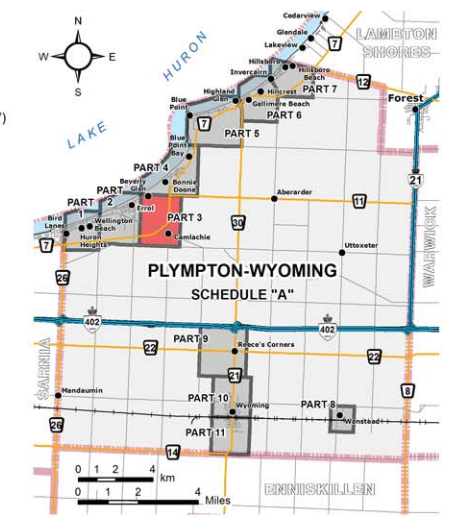
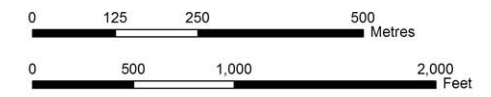
- Cadastral database is current to May 2010.
- Wetlands database is current to March 2010 (MNR).
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Projection: UTM NAD 83 Zone 17  
 COUNTY OF LAMBTON  
 Planning and Development Services, October 2010  
[www.lambtononline.ca](http://www.lambtononline.ca)

## Area Estimator



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# Town of Plympton-Wyoming ZONING BY-LAW PART 3 to Schedule "A" (Camlachie)

to By-law No. 97 of 2003  
 Passed this 26 day of Nov, 2003

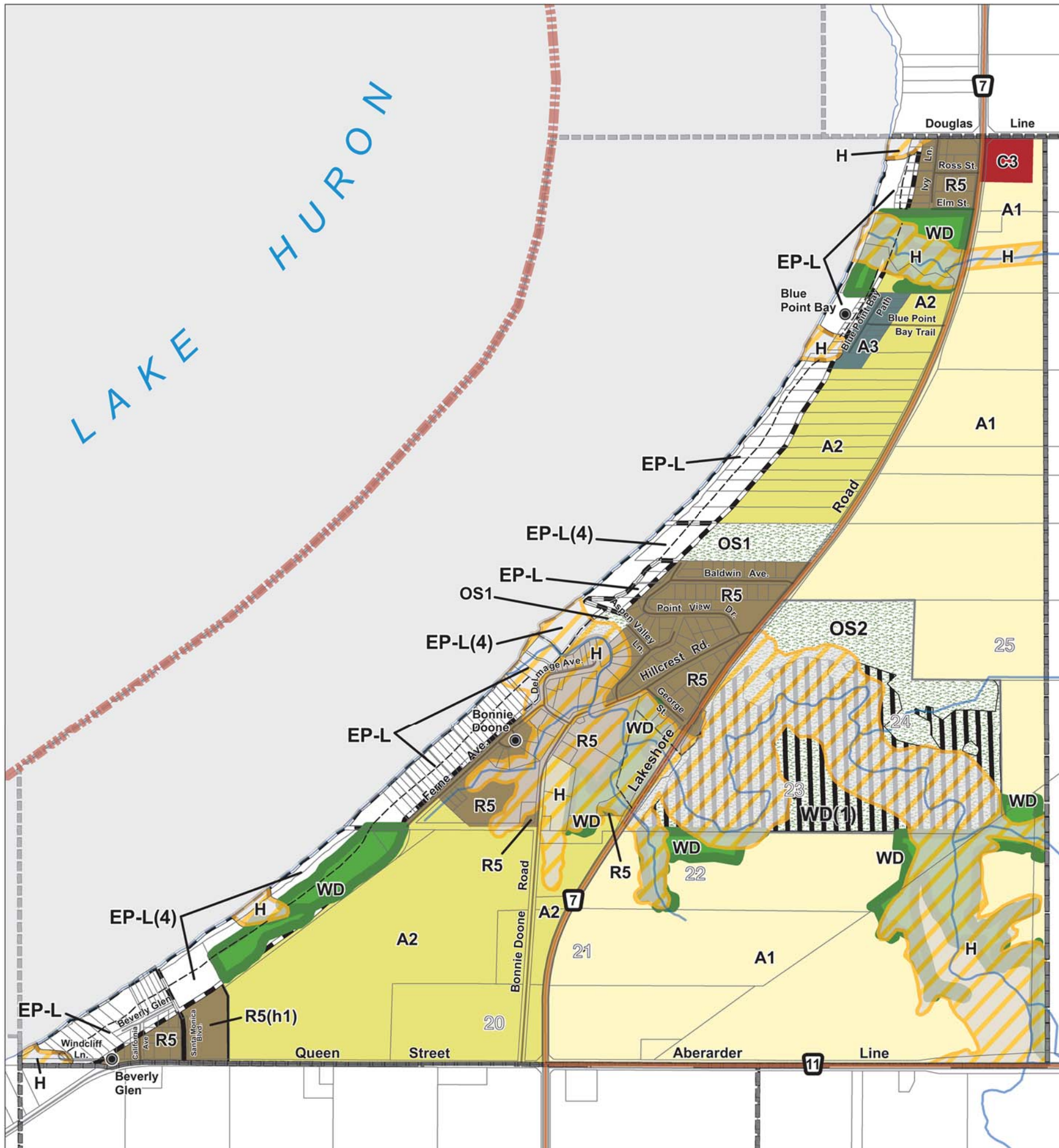
Lonny Napper, Mayor  
 Caroline DeSchutter, Clerk

## By-law Amendments





# Town of Plympton-Wyoming ZONING BY-LAW PART 4 to Schedule "A" (Beverly Glen - Bonnie Doone - Blue Point Bay)



### LEGEND

- Assessment Parcels
- Rivers - Streams - Drainage
- Roads
- County Road
- Provincial Highway
- Railroad
- Waterbodies
- Municipal Boundary
- Schedule Inset Boundaries ("Part 1"..... "Part 11")

### Zoning Index

- A1 Agricultural - 1
- A2 Agricultural - 2
- A3 Agricultural - 3
- R5 Residential - 5
- C3 Rural Commercial - 3
- OS1 Open Space - 1
- OS2 Open Space - 2
- EP-L Environmental Protection - Lakeshore
- EP-L(4) Environmental Protection - Lakeshore Exception 4
- WD Significant Woodlot
- WD(1) Woodlot Zone Exception
- H Hazard Area

- \* Temporary Use ...T1
- \* Zone Exceptions ...(-1), ...(-2)
- \* Holding Zones ...(-h)
- \* NOTE: For Zones with these suffixes refer to the text of the by-law for applicable zoning provisions.

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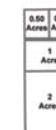
- Cadastral database is current to May 2010.
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Projection: UTM NAD 83 Zone 17

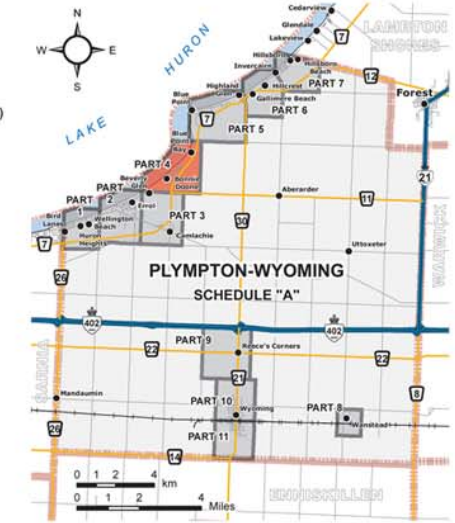
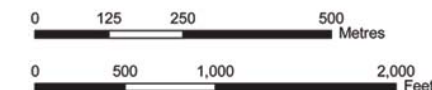
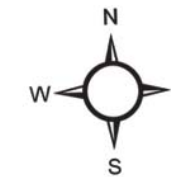
COUNTY OF LAMBTON  
Planning and Development Services, May 2011

[www.lambtononline.ca](http://www.lambtononline.ca)

### Area Estimator



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## Town of Plympton-Wyoming ZONING BY-LAW PART 4 to Schedule "A" (Beverly Glen - Bonnie Doone - Blue Point Bay)

to By-law No. 97 of 2003  
Passed this 26 day of Nov, 2003

Lonny Napper, Mayor

Caroline DeSchutter, Clerk

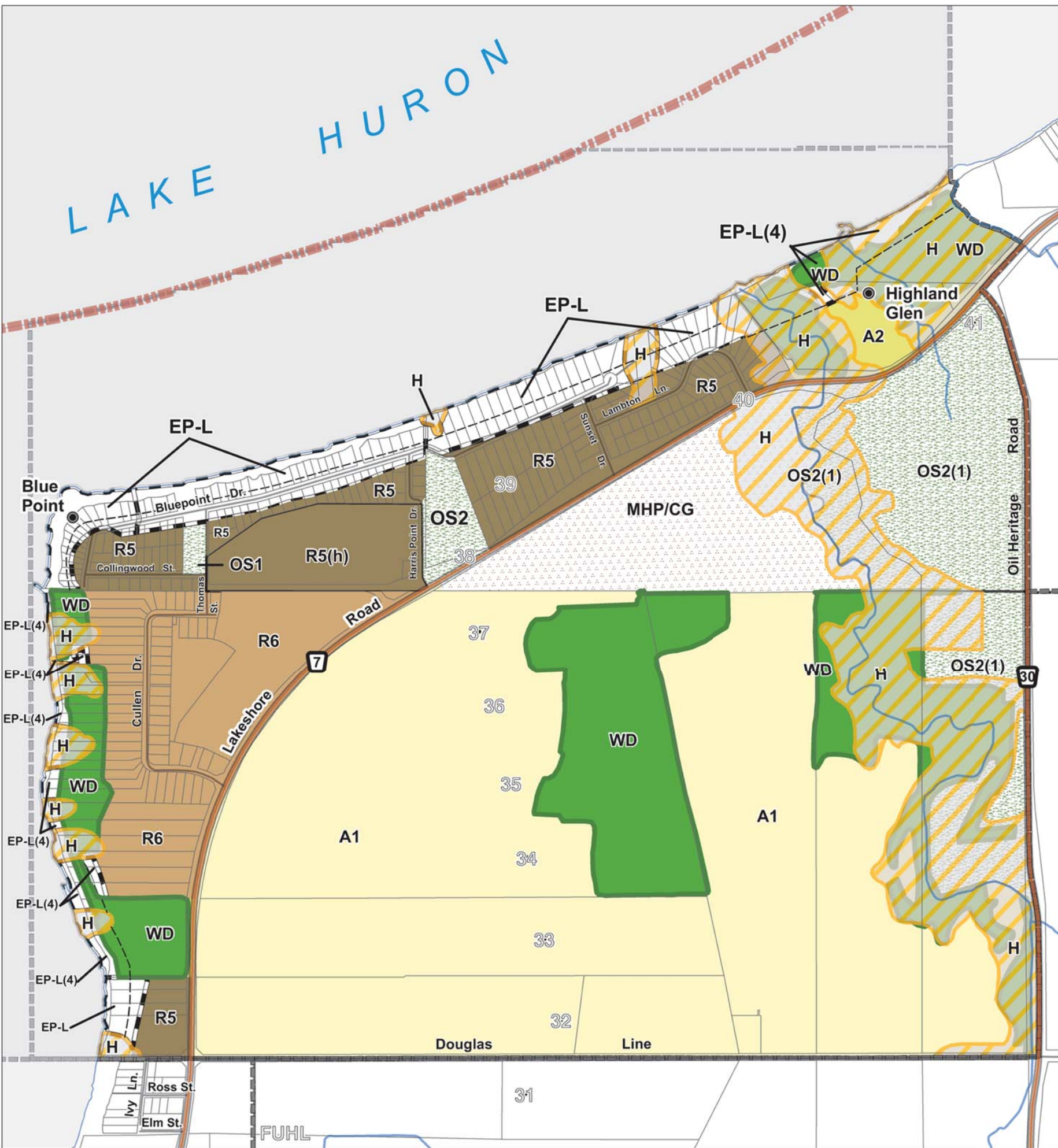
By-law Amendments





LAKE HURON

# Town of Plympton-Wyoming ZONING BY-LAW PART 5 to Schedule "A" (Blue Point - Highland Glen)



### LEGEND

- Assessment Parcels
- Waterbodies
- Rivers - Streams - Drainage
- Roads
- County Road
- Provincial Highway
- Railroad
- Municipal Boundary
- Schedule Inset Boundaries ("Part 1"....."Part 11")

### Zoning Index

- A1 Agricultural - 1
- A2 Agricultural - 2
- R5 Residential - 5
- R6 Residential - 6
- MHP/CG Mobile Home Park / Campground
- OS1 Open Space - 1
- OS2 Open Space - 2
- EP-L Environmental Protection - Lakeshore
- EP-L(4) Environmental Protection - Lakeshore Exception 4
- WD Significant Woodlot
- H Hazard Area

- \* Temporary Use ...-T1
- \* Zone Exceptions ...(-1), ...(-2)
- \* Holding Zones ...(-h)
- \* NOTE: For Zones with these suffixes refer to the text of the by-law for applicable zoning provisions.

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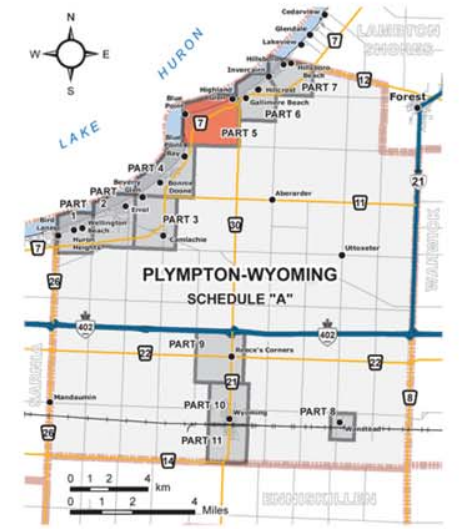
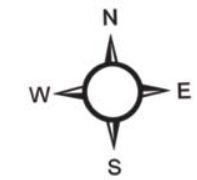
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Projection: UTM NAD 83 Zone 17  
 COUNTY OF LAMBTON  
 Planning and Development Services, May 2011  
 www.lambtononline.ca

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## Town of Plympton-Wyoming ZONING BY-LAW PART 5 to Schedule "A" (Blue Point - Highland Glen)

to By-law No. 97 of 2003

Passed this 26 day of Nov, 2003

Lonny Napper, Mayor

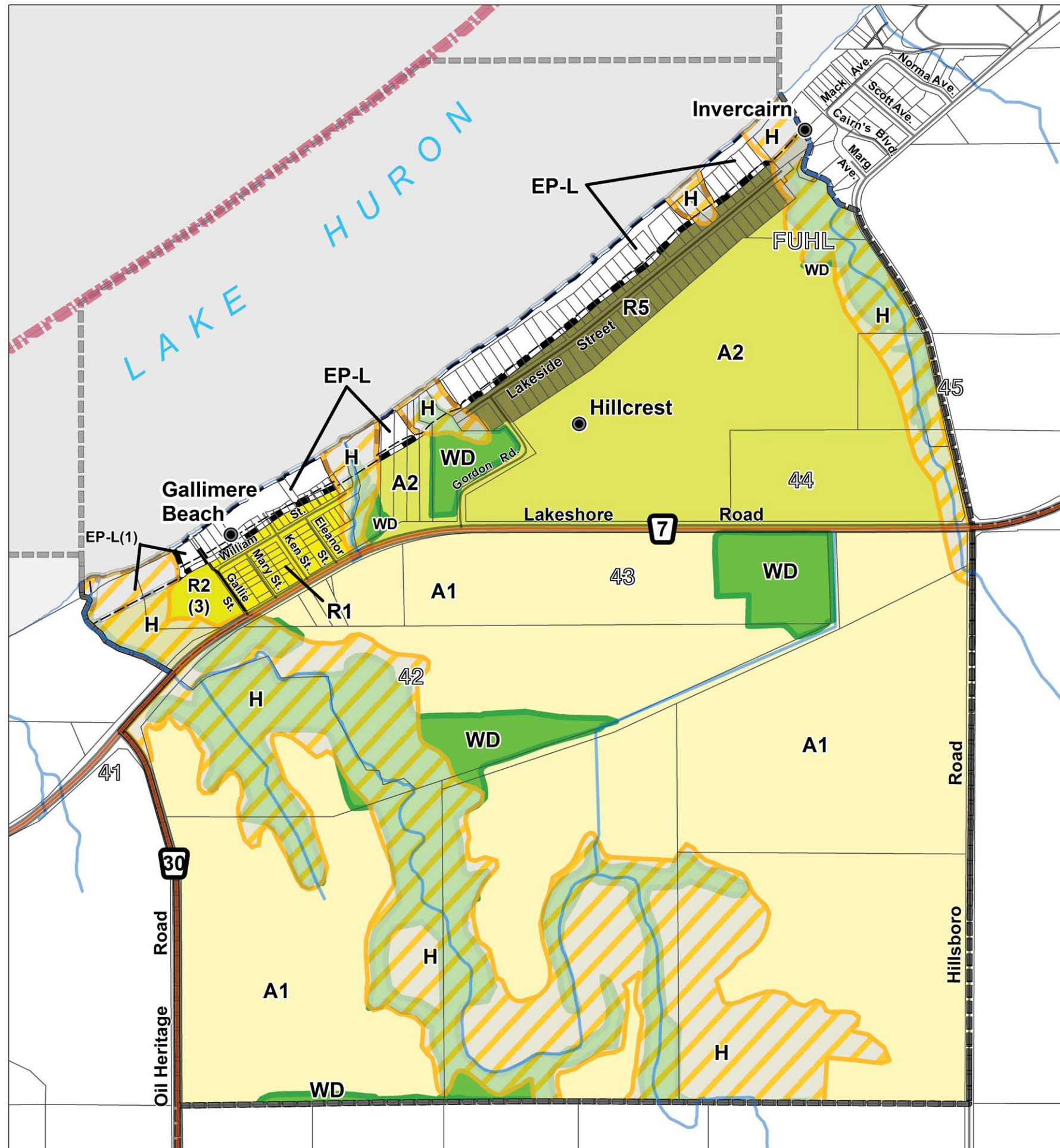
Caroline DeSchutter, Clerk

### By-law Amendments





# Town of Plympton-Wyoming ZONING BY-LAW PART 6 to Schedule "A" (Gallimere Beach - Hillcrest)



### LEGEND

- Assessment Parcels
- Rivers - Streams - Drainage
- Roads
- Provincial Highway
- Railroad
- Waterbodies
- Municipal Boundary
- Schedule Inset Boundaries ("Part 1"..... "Part 11")

### Zoning Index

- A1 Agricultural - 1
- A2 Agricultural - 2
- R1 Residential - 1
- R2 Residential - 2
- R5 Residential - 5
- EP-L Environmental Protection - Lakeshore
- EP-L(1) Environmental Protection - Lakeshore Exception 1
- WD Significant Woodlot
- H Hazard Area

- \* Temporary Use ...T1
- \* Zone Exceptions ...(-1), ...(-2)
- \* Holding Zones ...(h)
- \* NOTE: For Zones with these suffixes refer to the text of the by-law for applicable zoning provisions.

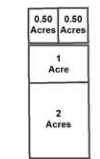
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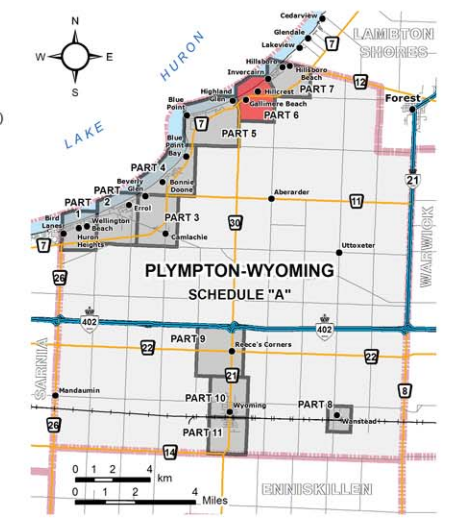
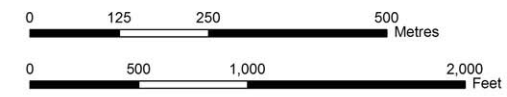
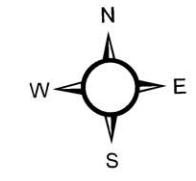
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Projection: UTM NAD 83 Zone 17  
 COUNTY OF LAMBTON  
 Planning and Development Services, October 2010  
[www.lambtononline.ca](http://www.lambtononline.ca)

### Area Estimator



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## Town of Plympton-Wyoming ZONING BY-LAW PART 6 to Schedule "A" (Gallimere Beach - Hillcrest)

to By-law No. 97 of 2003  
 Passed this 26 day of Nov, 2003

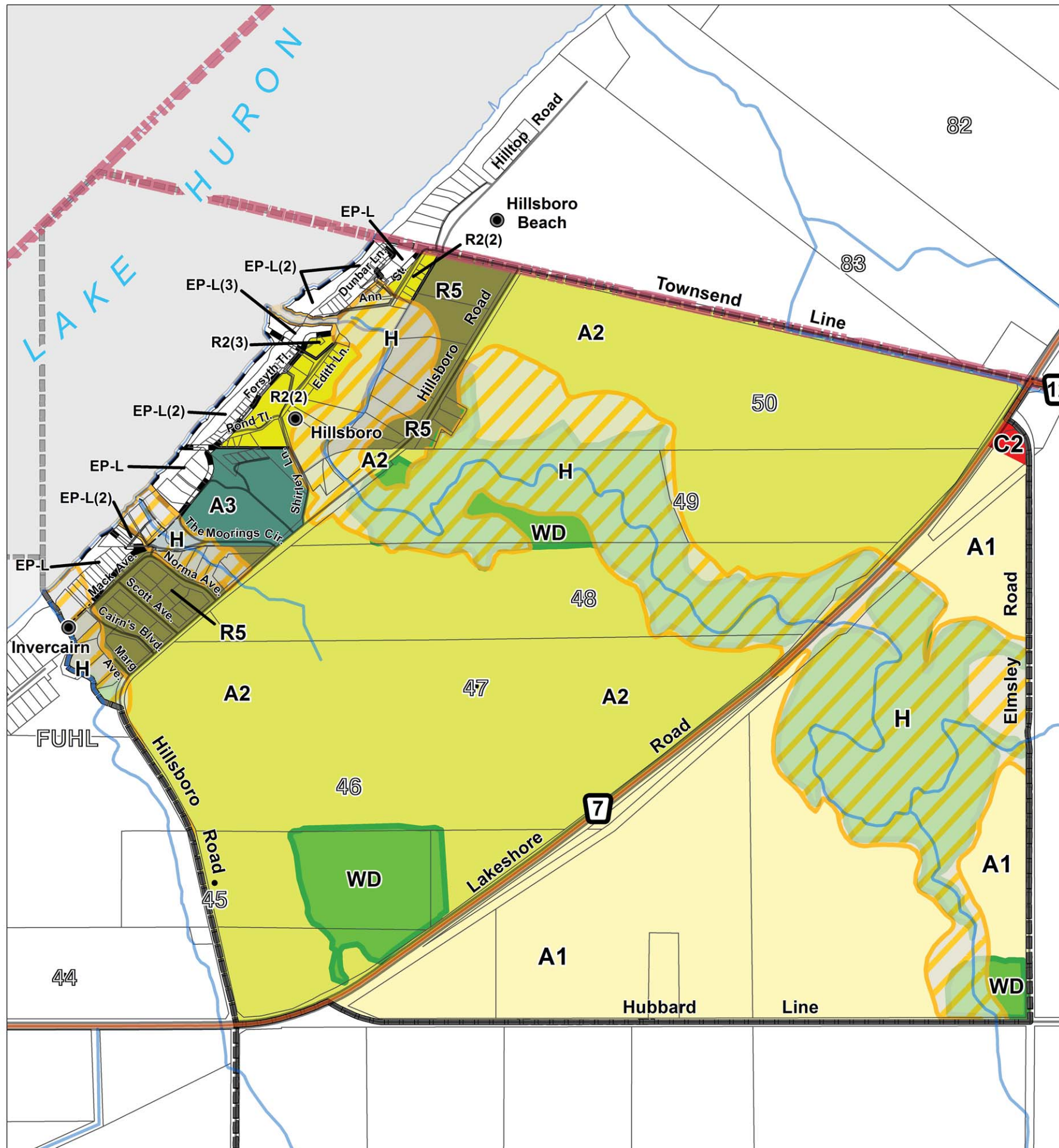
Lonny Napper, Mayor  
 Caroline DeSchutter, Clerk

### By-law Amendments





# Town of Plympton-Wyoming ZONING BY-LAW PART 7 to Schedule "A" (Invercairn - Hillsboro - Hillsboro Beach)



### LEGEND

- Assessment Parcels
- Rivers - Streams - Drainage
- Roads
- Provincial Highway
- Railroad
- Waterbodies
- Municipal Boundary
- Schedule Inset Boundaries ("Part 1"..... "Part 11")

### Zoning Index

- A2 Agricultural - 2
- A3 Agricultural - 3
- R2 Residential - 2
- R5 Residential - 5
- EP-L Environmental Protection - Lakeshore
- EP-L(2) Environmental Protection - Lakeshore Exception 2
- EP-L(3) Environmental Protection - Lakeshore Exception 3
- WD Significant Woodlot
- H Hazard Area

- \* Temporary Use ...T1
- \* Zone Exceptions ...(-1), ...(-2)
- \* Holding Zones ... (h)
- \* NOTE: For Zones with these suffixes refer to the text of the by-law for applicable zoning provisions.

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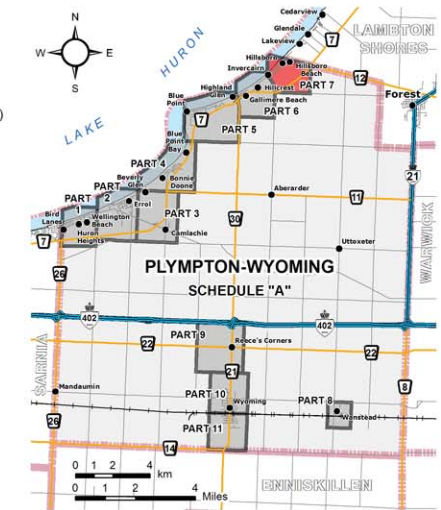
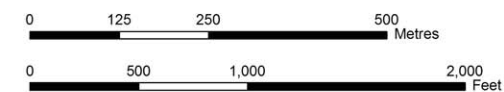
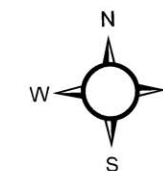
Projection: UTM NAD 83 Zone 17

COUNTY OF LAMBTON  
Planning and Development Services, October 2010  
www.lambtononline.ca

### Area Estimator



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## Town of Plympton-Wyoming ZONING BY-LAW PART 7 to Schedule "A" (Invercairn - Hillsboro - Hillsboro Beach)

to By-law No. 97 of 2003

Passed this 26 day of Nov, 2003

Lonny Napper, Mayor

Caroline DeSchutter, Clerk

By-law Amendments

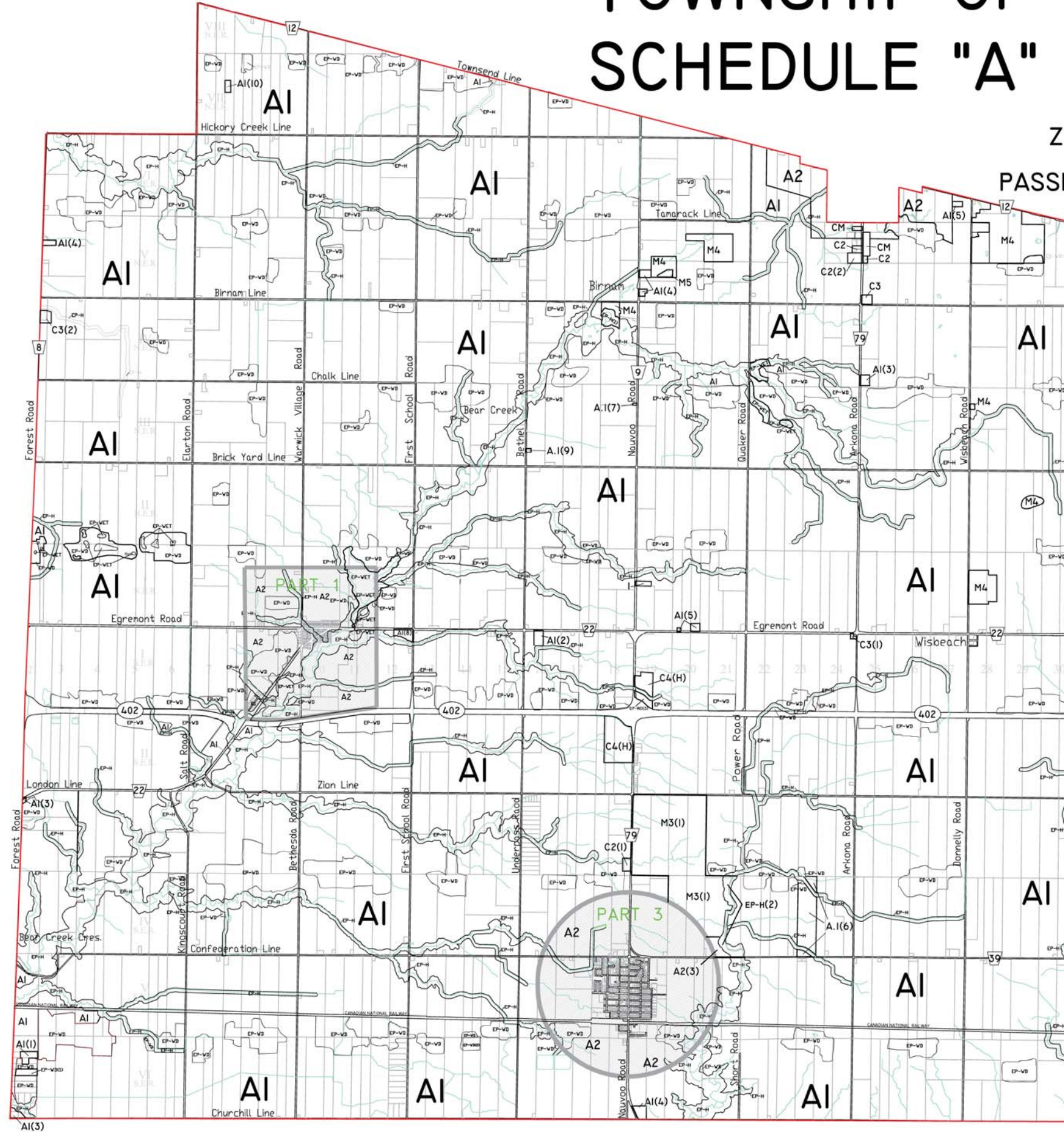




# TOWNSHIP OF WARWICK SCHEDULE "A"

ZONING BY-LAW NO. \_\_\_\_\_ OF 2000.

PASSED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2000.



MAYOR \_\_\_\_\_

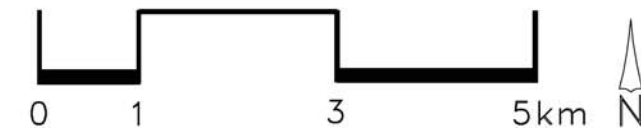
CLERK \_\_\_\_\_

## LEGEND

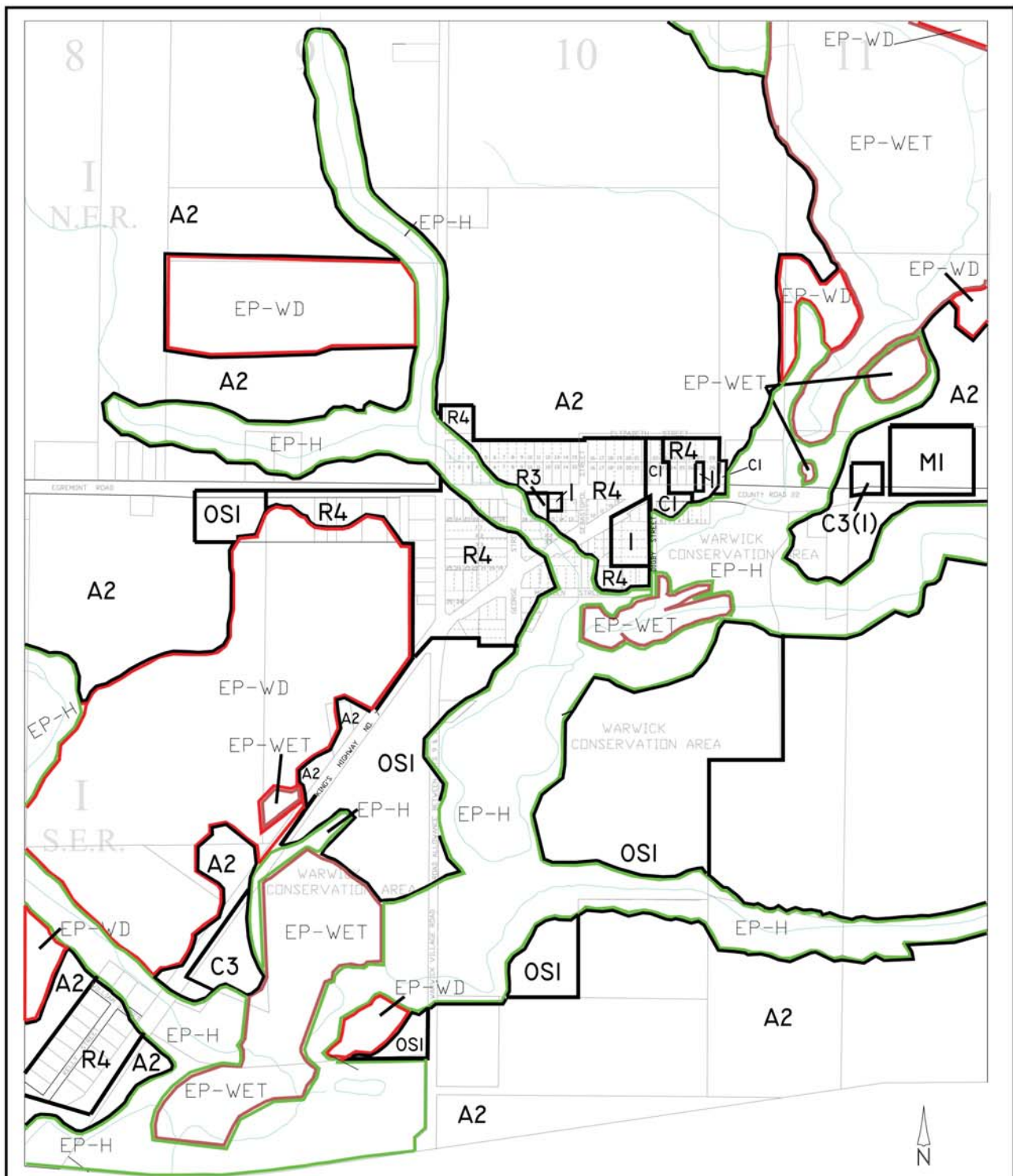
- AI AGRICULTURAL 1
- A2 AGRICULTURAL 2
- C2 HIGHWAY COMMERCIAL
- C3 RURAL COMMERCIAL
- C4 SERVICE CENTRE COMMERCIAL
- CM MIXED COMMERCIAL/INDUSTRIAL
- I INSTITUTIONAL
- M3 INDUSTRIAL WASTE DISPOSAL
- M4 EXTRACTIVE INDUSTRIAL
- M5 INDUSTRIAL RECYCLING
- EP-H ENVIRONMENTAL PROTECTION - HAZARD
- EP-WD ENVIRONMENTAL PROTECTION - WOODLOT
- EP-WET ENVIRONMENTAL PROTECTION - WETLAND

### ZONING BY-LAW AMENDMENTS:

- B/L 24/01 JUNE 25, 2001
- B/L 25/01 JUNE 25, 2001
- B/L 19/01 JULY 3, 2001
- B/L 27/02 FEBRUARY 13, 2002
- B/L 67/02 MAY 29, 2002
- Z/B 24/02 DECEMBER 5, 2002
- B/L 67/02 MAY 29, 2002
- Z/B 34/04 APRIL 21, 2004
- Z/B 63/06 MAY 26, 2006
- Z/B 26/07 MARCH 28, 2007
- Z/B 55/07 JUNE 27, 2007
- Z/B 10/08 FEBRUARY 27, 2008
- Z/B 29/08 MAY 14, 2008
- Z/B 10/09 JANUARY 27, 2009
- Z/B 10/09 NOVEMBER 4, 2009







WARWICK VILLAGE

PART 1 OF SCHEDULE 'A' TO  
 ZONING BY-LAW NO. \_\_\_ OF 2000.  
 PASSED THIS \_\_\_ DAY OF \_\_\_\_\_ 2000.

\_\_\_\_\_  
 MAYOR

\_\_\_\_\_  
 CLERK

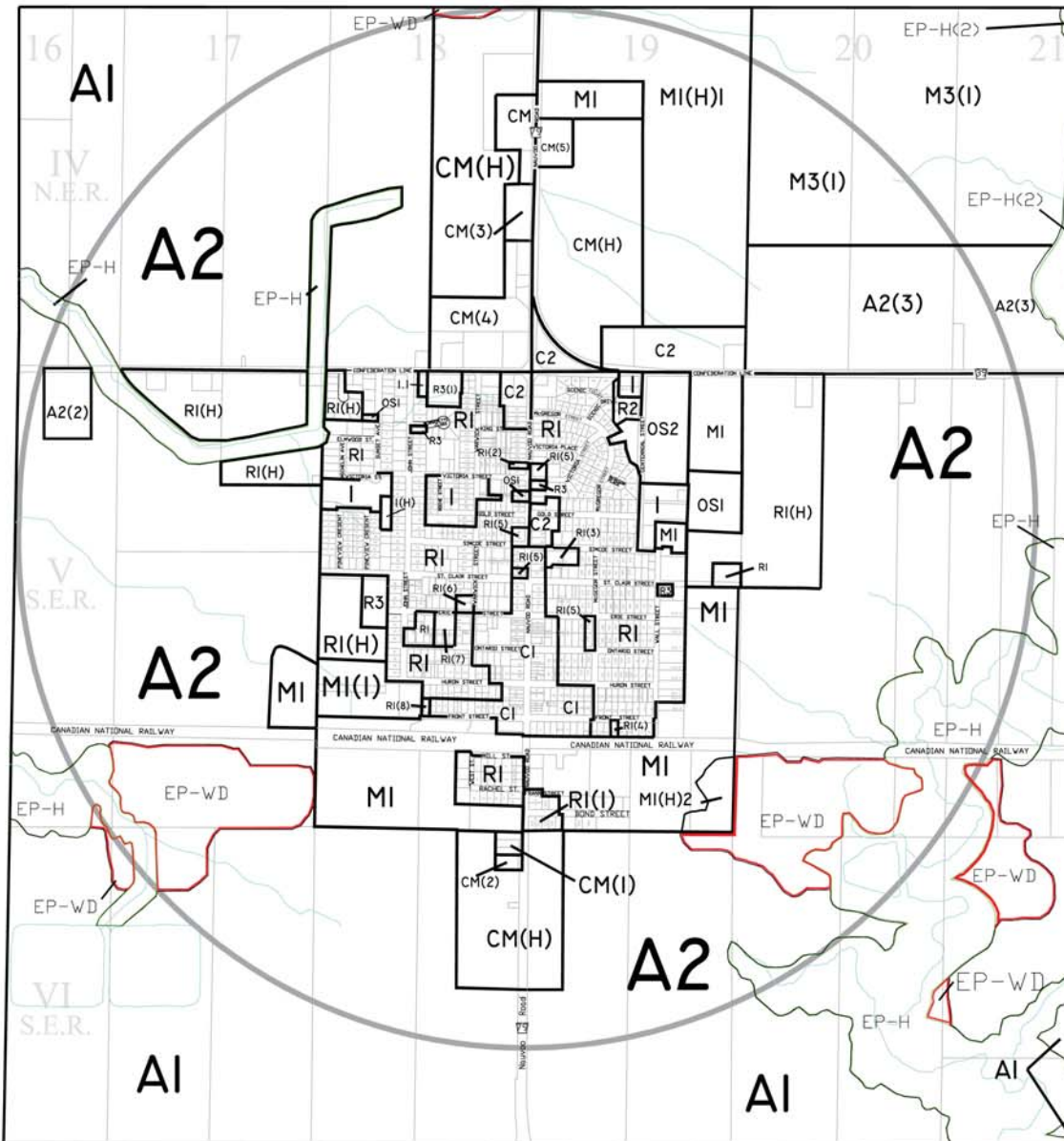
PLANNING & DEVELOPMENT DEPARTMENT  
 COUNTY OF LAMBTON  
 SEPTEMBER 2000

**LEGEND**

A2	AGRICULTURAL 2
R3	RESIDENTIAL 3
R4	RESIDENTIAL 4
C1	CENTRAL COMMERCIAL
C3	RURAL COMMERCIAL
M1	INDUSTRIAL
I	INSTITUTIONAL
OS1	OPEN SPACE 1
EP-H	ENVIRONMENTAL PROTECTION-HAZARD
EP-WD	ENVIRONMENTAL PROTECTION-WOODLOT
EP-WET	ENVIRONMENTAL PROTECTION-WETLAND

0 150 300 800m





AMENDED Z/B 36/04 APRIL 7, 2004  
 AMENDED Z/B 41/04 APRIL 21, 2004  
 AMENDED Z/B 43/06 APRIL 26, 2006

AMENDED Z/B 93/06 JULY 19, 2006  
 AMENDED Z/B 135/06 DECEMBER 20, 2006  
 AMENDED Z/B 32/07 APRIL 11, 2007

AMENDED Z/B 10/08 FEBRUARY 27, 2008  
 AMENDED Z/B 14/08 MARCH 12, 2008

### TOWNSHIP OF WARWICK

PART 3 TO SCHEDULE "A" OF THE  
 ZONING BY-LAW NO. \_\_\_\_\_ OF 2000.  
 PASSED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2000.

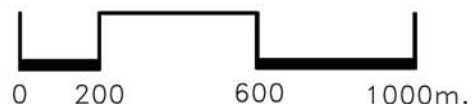
\_\_\_\_\_  
 MAYOR

\_\_\_\_\_  
 CLERK

PLANNING & DEVELOPMENT DEPARTMENT  
 COUNTY OF LAMBTON  
 SEPTEMBER 2000.

### LEGEND

- |     |                |    |                                |
|-----|----------------|----|--------------------------------|
| A2  | AGRICULTURAL 2 | I  | INSTITUTIONAL                  |
| OS1 | OPEN SPACE 1   | CI | CENTRAL COMMERCIAL             |
| OS2 | OPEN SPACE 2   | C2 | HIGHWAY COMMERCIAL             |
| RI  | RESIDENTIAL 1  | MI | INDUSTRIAL                     |
| R2  | RESIDENTIAL 2  | M3 | INDUSTRIAL WASTE DISPOSAL      |
| R3  | RESIDENTIAL 3  | CM | MIXED COMMERCIAL<br>INDUSTRIAL |





**APPENDIX C:**  
**Siemens SWT-2.3-113 Wind Turbine Generator Information**



ACOUSTICS



NOISE




VIBRATION





**SIEMENS**



SWT - 2.3 - 113

Turning moderate wind into maximum results



# At the leading edge of evolution

The new Siemens SWT-2.3-113 wind turbine is the ultimate choice for low to moderate wind conditions. The revolutionary direct drive generator and the new, optimized Quantum Blade are paired to extract as much energy as possible from the wind.

Efficient. Quiet. Robust and reliable. The Siemens SWT-2.3-113 is the new benchmark wind turbine for low to medium wind speeds. As a result of more than 30 years of research and development, it is designed to harvest more energy out of moderate wind conditions than anyone thought possible.

## Proven design

The SWT-2.3-113 is built around the same revolutionizing direct drive generator as the SWT-3.0-101. The direct drive turbine offers exceptional reliability and efficiency – with only 50% of the parts normally required for a conventional wind turbine. By using the same proven design and sharing the majority of components with its larger sibling, production costs and lead times can be kept down.

## Unique aerodynamics

The Quantum Blade combines exceptional aerodynamic performance with patented manufacturing technology. Based on innovative aerodynamic solutions in the root and tip sections, the Quantum Blade offers maximum efficiency at low to medium wind speeds.

## Maximum availability

Simplicity is the ultimate sophistication. With the simple and robust direct drive concept with 50% fewer parts, the SWT-2.3-113 wind turbine is designed for maximum availability. Furthermore, the spacious nacelle and the ergonomic working conditions facilitate serviceability and contribute to minimizing downtime for scheduled maintenance.

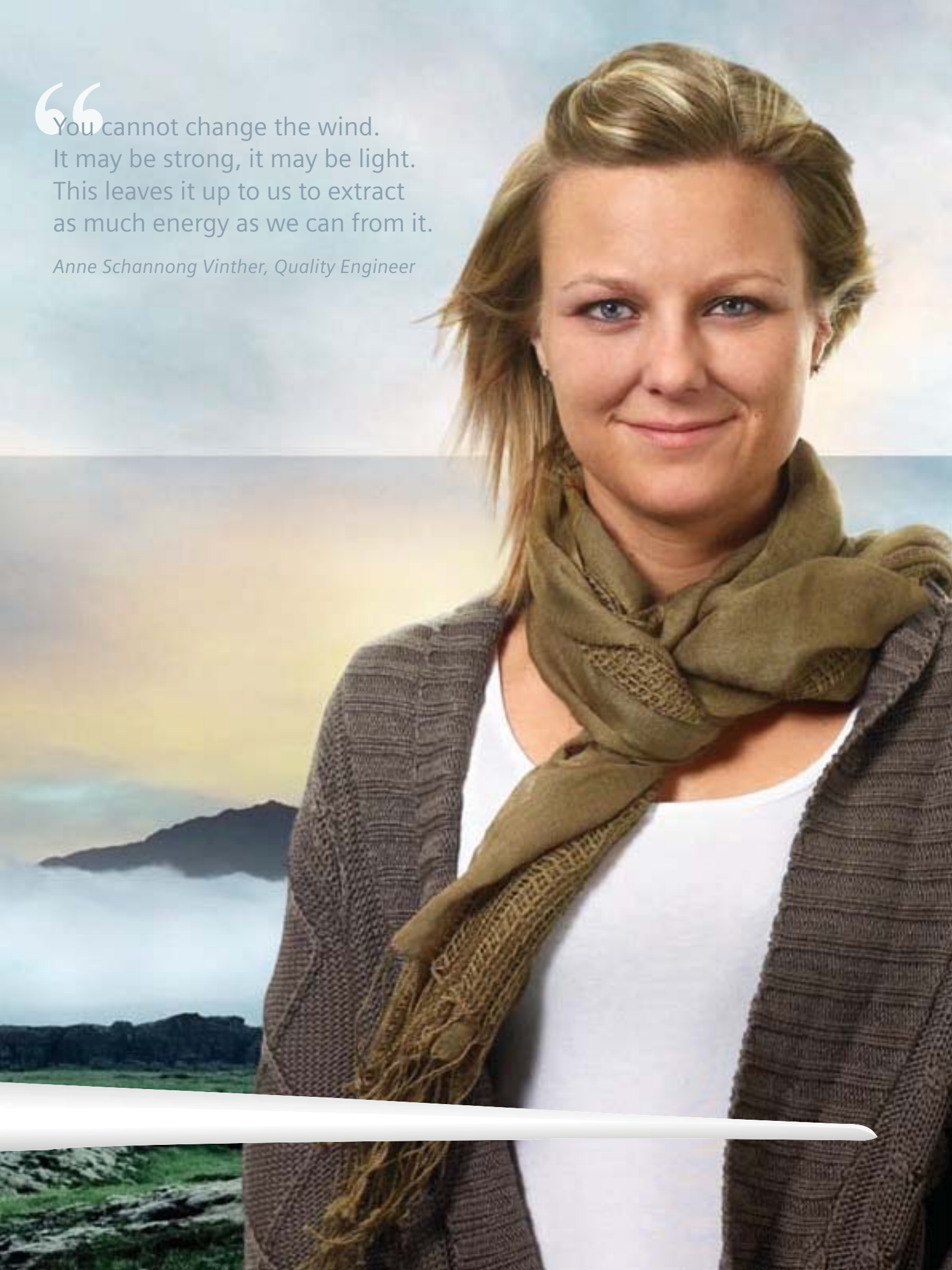




“

You cannot change the wind.  
It may be strong, it may be light.  
This leaves it up to us to extract  
as much energy as we can from it.

*Anne Schannong Vinther, Quality Engineer*





# Innovation for efficiency

Siemens direct drive technology and the new Quantum Blade represent groundbreaking wind turbine design and technology. The result of these two key innovations is a turbine with maximum efficiency and reliability, which helps to enable a solid return on investment.

## Maximized performance with 50% fewer parts

The Siemens direct drive design incorporates a permanent magnet generator with fewer moving parts than ever before.

The simple permanent magnet design offers increased efficiency directly by minimizing energy losses and indirectly by reducing maintenance needs. The outer rotor arrangement leads to a more compact and lightweight generator, making transportation and installation easier and faster.

## The B55 Quantum Blade

The new generation of Siemens wind turbine blades is lighter than previous designs but retains the superior

strength known from earlier generations of blades. Thanks to unique airfoils and redesigned tip and root sections, the blade offers superior performance at low to medium wind speeds. The root section uses Siemens "flatback" profiles to minimize root leakage and provide higher lift. The tip has also undergone a fine-tuning process to give enhanced lift and acoustic performance.

## One-piece moulding

Like other Siemens blades, the new Quantum Blades are manufactured in Siemens proprietary IntegralBlade® process. Each blade is moulded in one single production step from fiberglass-reinforced epoxy resin, resulting in a stronger, lighter blade without any joints.



# Technical specification

## Rotor

- Type: 3-bladed, horizontal axis
- Position: Upwind
- Diameter: 113 m
- Swept area: 10,000 m<sup>2</sup>
- Speed range: 6–13 rpm
- Power regulation: Pitch regulation with variable speed
- Rotor tilt: 6 degrees

## Blade

- Type: Self-supporting
- Blade length: 55 m
- Tip chord: 0.63 m
- Root chord: 4.2 m
- Aerodynamic profile: NB 1-7, SWPNA1\_XX12, FFAxxx
- Material: GRE
- Surface gloss: Semi-mat, <30 / ISO2813
- Surface colour: Light grey, RAL 7035

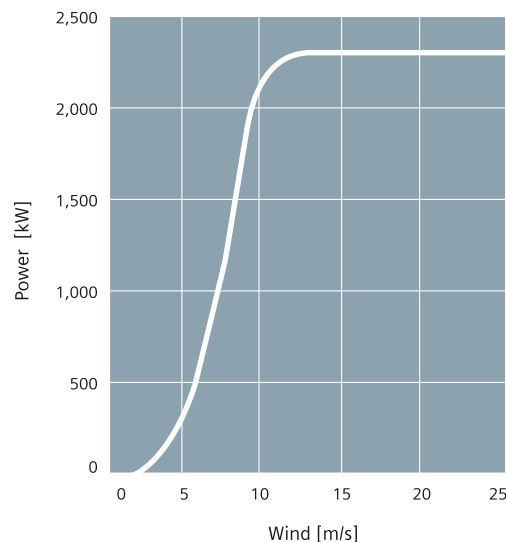
## Aerodynamic brake

- Type: Full span pitching
- Activation: Active, hydraulic

## Load-supporting parts

- Hub: Nodular cast iron
- Main shaft: Cast
- Nacelle bed plate: Cast

## Sales power curve



## Mechanical brake

- Type: Hydraulic disc brake
- Position: Generator rear end
- Number of callipers: 3

## Canopy

- Type: Totally enclosed
- Surface gloss: Silk mat, 30–40 / ISO2813
- Colour: Light grey, RAL 7035

## Generator

- Type: Synchronous, PMG
- Nominal power: 2,300 kW

## Grid terminals (LV)

- Nominal power: 2,300 kW
- Voltage: 690 V
- Frequency: 50 Hz or 60 Hz

## Yaw system

- Type: Active
- Yaw bearing: Externally geared
- Yaw drive: 8 (optional 10) electric gear motors
- Yaw brake: Passive friction brake

## Controller

- Type: Microprocessor
- SCADA system: WPS
- Controller designation: SWTC, STC-1, SCS-1

## Tower

- Type: Cylindrical and/or tapered tubular
- Hub height: 99.5 m or site-specific
- Corrosion protection: Painted
- Surface gloss: Silk mat, 30–40 / ISO2813
- Colour: Light grey, RAL 7035

## Operational data

- Cut-in wind speed: 3 m/s
- Nominal power at: 12–13 m/s
- Cut-out wind speed: 25 m/s
- Maximum 3 s gust: 59.5 m/s (IEC version)

## Weights (approximately)

- Rotor: 66,700 kg
- Nacelle: 73,000 kg
- Tower: Site-specific



**1** Quantum Blade

- Unique design and manufacturing process
- IntegralBlade® one-piece moulding for maximum strength
- Optimized aerodynamics for low to medium wind conditions
- Increased length for higher energy yield
- Blade root – designed for minimized root leakage and increased lift

**2** Direct drive generator

- Permanent magnet design
- Totally enclosed, easy to handle and lightweight design
- Optimum reliability and efficiency

**3** Nacelle

- Solid, compact and lightweight structure
- Spacious, ergonomic design – maximum serviceability
- 50% fewer parts compared to geared turbines

**4** Cooling

- Simple and robust LiquidLink® water cooling system
- Top-mounted passive cooling radiators
- High-efficient two-stage cooling as function of power





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The information in this document contains  
general descriptions of the technical options  
available, which may not apply in all cases.  
The required technical options should therefore  
be specified in the contract.



**APPENDIX D:**  
**Siemens SWT-2.3-113 Wind Turbine Generator**  
**Sound Power Data**

CONFIDENTIAL

(These materials have been supplied to the  
Ontario Ministry of Environment)



ACOUSTICS



NOISE



VIBRATION



# APPENDIX E: TRANSFORMER DRAWINGS



ACOUSTICS

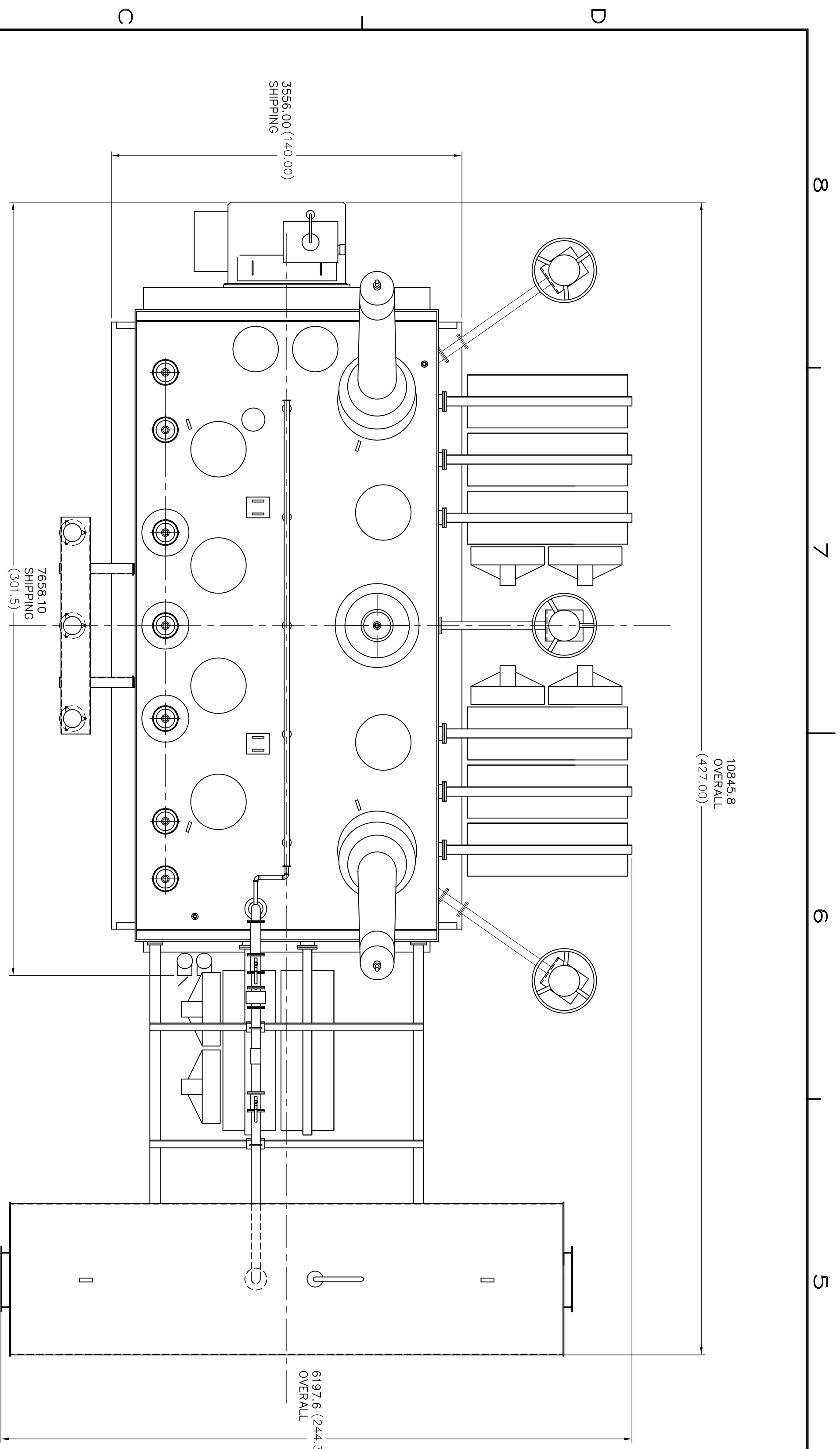


NOISE



VIBRATION





10845.8  
OVERALL  
(427.00)

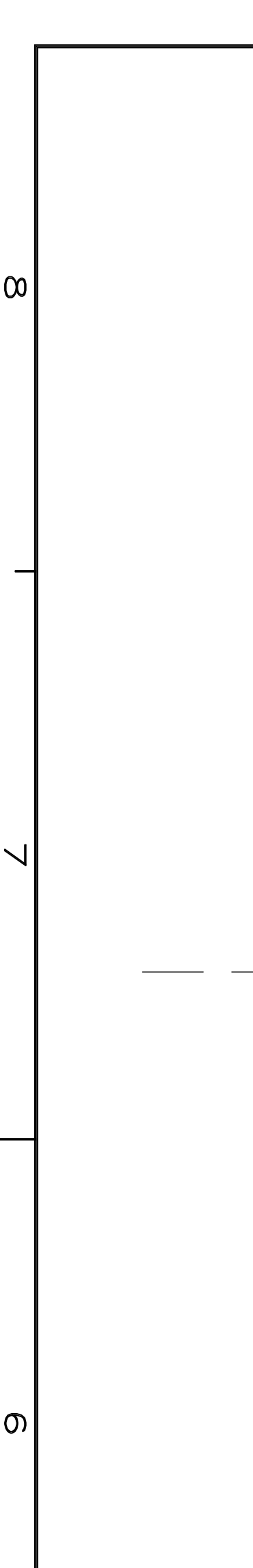
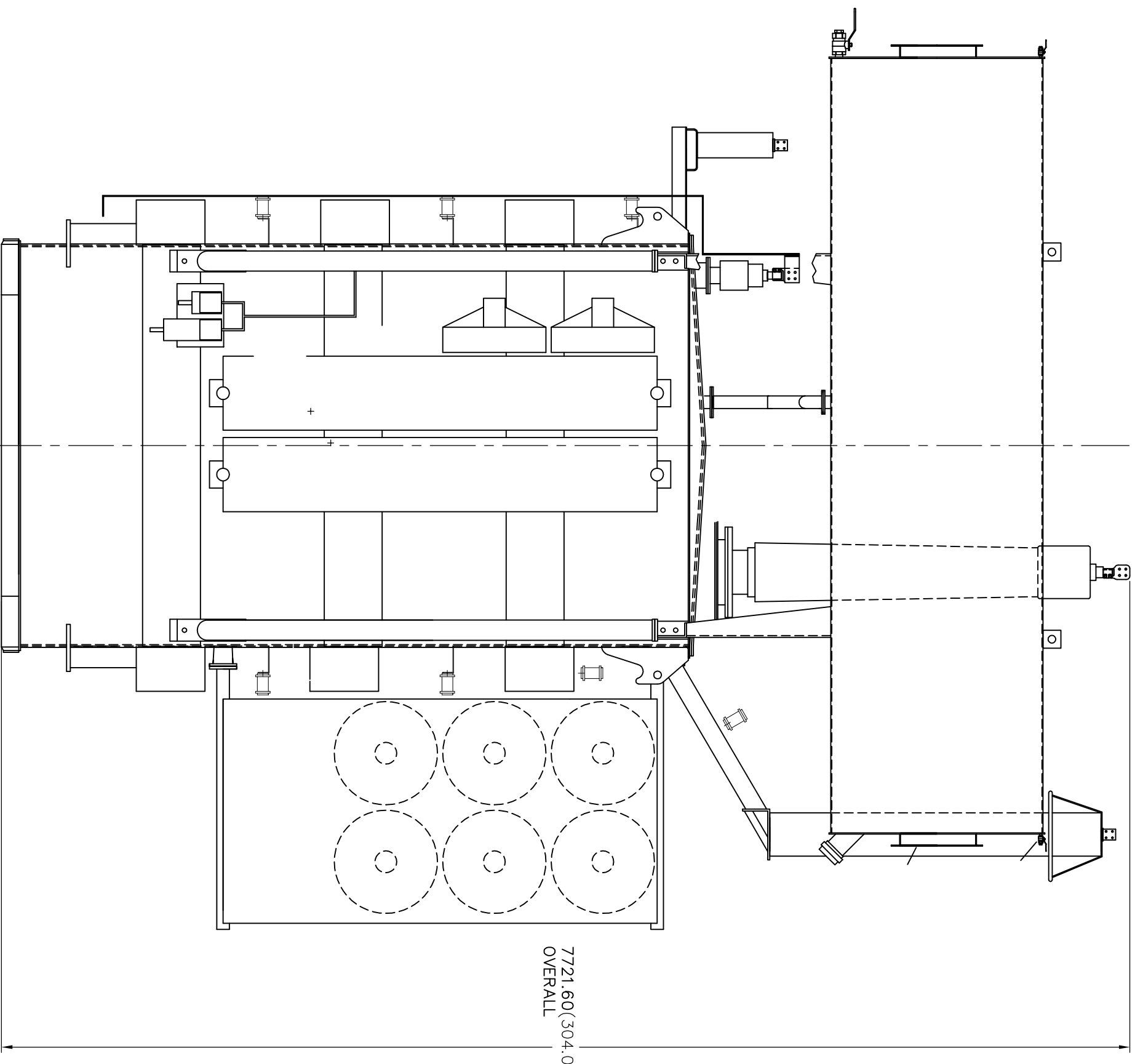
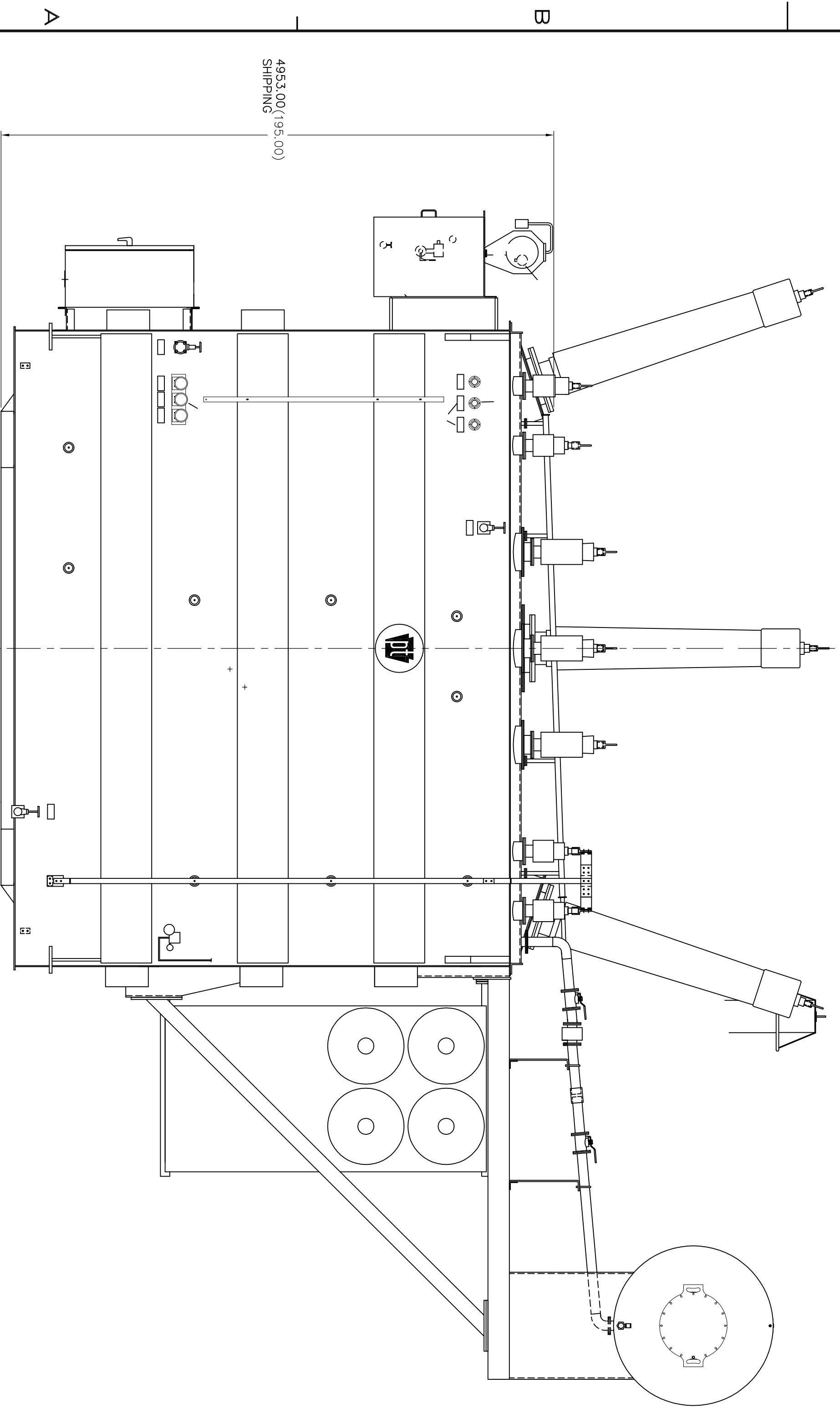
APPROXIMATE WEIGHT IN POUNDS

CORE AND COILS	[76,725.15 kg]	(169,150 lb)
TANK AND FITTINGS	[22,437.40 kg]	(49,466 lb)
LTC MECHANISM	[ 721.22 kg]	( 1,590 lb)
DETACHABLE RADIATORS	[ 994.84 kg]	( 2,197.20 lb)
CONSERVATOR AND SUPPORTS	[2,131.90 kg]	( 4,700 lb)
OIL [ 61,963.3 l ] (16,388 GALS.) MAIN TANK	[55,882.00 kg]	(122,760 lb)
OIL [ 461.8 l ] (122 GALS.) LTC COMPARTMENT	[ 413.68 kg]	( 912 lb)
OIL [ 2,343.8 l ] (612 GALS.) DETACHABLE RADIATORS	[2,286.11 kg]	( 5,040 lb)
OIL [ 3736.2 l ] (987 GALS.) CONSERVATOR	[3,965.00 kg]	( 8,740.3 lb)
TOTAL WEIGHT	[172,201.36 kg]	( 380,241 lb)
UNLANKING WEIGHT (NEAREST PIECE)	[81,431.82 kg]	( 181,150 lb)
SHIPPING WEIGHT	[105,105.45 kg]	( 231,110 lb)

DIMENSIONS - (INCHES)

MILLIMETERS	WEIGHTS - (KILOGRAMS)	VOLUME - (GALLONS)
-------------	-----------------------	--------------------

- <001> HV BUSHING
- <003> LV BUSHING
- <005> TV BUSHING
- <006> HO BUSHING
- <007> XO BUSHING
- <014> HV LIGHTNING ARRESTERS
- <016> LV LIGHTNING ARRESTERS
- <082> WEATHERPROOF COMPARTMENT FOR ABB TYPE LOAD TAP CHANGER INTERRUPTER AND SELECTOR WITH HINGED REMOVABLE FRONT DOOR AND LTC DRIVE MECHANISM
- <278> WEATHERPROOF NEMA-4 CONTROL CABINET FOR HOUSING FAN CONTROL EQUIPMENT, CURRENT TRANSFORMER LEADS & ACCESSORY LEADS WITH A 6.50" X 33.00" CUT-OUT DOOR EQUIPPED WITH PROVISIONS FOR PADLOCKING, GROUNDED WITH #10 BARE COPPER CABLE.
- <416> DETACHABLE PLATE TYPE RADIATORS.
- <418> COOLING FANS
- <485> DIAPHRAGM TYPE OIL CONSERVATOR WITH REMOVABLE BRACKETS



REV.	SWL	DATE	BY	CK	AP.	DESCRIPTION

REV.	SWL	DATE	BY	CK	AP.	DESCRIPTION

NO. UNITS ORDERED		SPEC.	
QWL, ADA, DATE		ORDER	
CK		TYPE	
AP			
DESCRIPTION			
DESIGN	OUTLINE OF ONAN/ONAF/ONAF - 3 PHASE - 60 HERTZ		
REFERENCE	CORE TYPE POWER TRANSFORMER (CONSERVATOR PRESERVATION)		
		BSPT.	
SCALE: NOT TO SCALE	CUSTOMER'S ORDER	CAD CODE	
<b>CONFIDENTIAL</b> MUST NOT BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF Pennsylvania Transformer Technology, Inc.		DRAWING	REV.
		SK042914	1



## ANSI PERFORMANCE DATA

**For: amec, GE**

RATING					
Type	PWR/GSU/Auto	CLASS	H Winding	X Winding	Y Winding
Phase	3		120000/69282V	34500/19919V	19919V
Hertz	60	ONAN	66 MVA	66 MVA	22 MVA
Temp Rise	<b>65°C</b>	ONAF	88 MVA	88 MVA	29.3 MVA
Insul. Liquid	OIL	ONAF	110 MVA	110 MVA	36.7MVA

ADDITIONAL TAP VOLTAGES	
H Winding:	+/- 10% in 16-1.25%(approx.) steps by UZFRN 250/600 LTC @ NEUTRAL END ( FC )
X Winding:	NO TAPS

INSULATION LEVELS (KV BIL)		
	Winding	Bushing
H Line	650	650
H Neutral	125	150
X Line	200	200
X Neutral	125	150
Y Line	125	150

DIELECTRIC TESTS		
Applied Voltage (To Other windings And ground)	H Winding	198 KV
	X Winding	70 KV
	Y Winding	50 KV
Induced Voltage	Line To Line	225 KV
	Line To Ground	130 KV

PERFORMANCE DATA: Based on <b>85°C</b> Reference Temperature and rated <b>66 MVA, 120 – 34.5</b> kV Base					
Losses and Exciting Current			Regulation @ <b>66 MVA</b> Base		
Excitation	% Ex. I	No Load	Total Loss	Power Factor	% Regulation
100%	0.5	<b>63000W *</b>	<b>183000W *</b>	1.0	0.50
105%	0.8	W		0.9	3.89
110%	1.2	W		0.8	5.13

AUXILIARY LOSSES		
Transformer KVA	Class	Aux Loss (Watts)
88000	ONAF	<b>4800 W</b>
110000	ONAF	<b>9600 W</b>
Sound Level: <b>70/71/72dB *</b>		

MECHANICAL DATA			
Dimensions		Assembled	Shipping
Height (in)	(A)	304	195
Width (in)	(B)	427	301
Depth (in)	(C)	244	140
Height Over Cover	(D)		
Untanking (Plus Sling)	(E)		
Weights (Approx. lbs)			
Core & Coils		169150	
Tank & Fittings		49466	
Oil ( ##### ) Gal Main		122760	
Oil ( -- ) Gal LTC		912	
Shipping Wt with rad & oil		220110	
<b>Total Weight</b>			

PERCENT IMPEDANCE VOLTS					
% IZ	Btwn Wdg	At MVA	%Izo	Btwn Wdg	At MVA
<b>8.0</b>	H-X	<b>66 *</b>			
	H-X				
	H-Y				

EFFICIENCIES @ 66 MVA Base @ 0.8 PF					
Load %	Full Load	¾ Load	½ Load	¼ Load	
100	99.66	99.69	99.65	99.47	

\* **Guaranteed Parameters**



**Transformer - Cedar Point**

NEMA  
Surface

$$L_w = L_p + 10 \cdot \log S$$

1 Ft ONAN / 6 Ft ONAF LwA  
**98.2**

Lp      S  
72      **413.6** m<sup>2</sup>  
**0.0**

Total Perimeter: 50.0  
 Height: 5.3  
 Top Surface: 151.0

	31.5	63	125	250	500	1000	2000	4000	8000	A
Adjustment Value	-3	3	5	0	0	-6	-11	-16	-23	
Sound Power Level	95.2	101.2	103.2	98.2	98.2	92.2	87.2	82.2	75.2	<b>98.6</b>

Tonal Penalty: 5  
 Penalized A-Weighted Sum: 103.6





# APPENDIX F: CALCULATION DETAILS



ACOUSTICS



NOISE



VIBRATION



Summary of Calculations - Condensed Overall, dBA Format

137 Non-Participating Receptor		414593	4766180	216.3													
Src ID	Src Name	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahous	Cmet	Refl	Lr	
40	Suncor WTG40	412134	4769169	298.0	104	82.8	0	0.0	-0.5	0.0	7.2	0.0	0.0	0.0	0.0	15	
42	Suncor WTG42	413558	4766376	307.5	104	71.5	0	0.0	-0.5	0.0	2.8	0.0	0.0	0.0	0.0	30	
43	Suncor WTG43	410885	4768546	299.5	104	83.9	0	0.0	-0.6	0.0	7.8	0.0	0.0	0.0	0.0	13	
46	Suncor WTG46	413838	4765546	309.7	104	70.9	0	0.0	-0.5	0.0	2.6	0.0	0.0	0.0	0.0	31	
50	Suncor WTG50	410398	4765477	305.2	104	83.6	0	0.0	-0.5	0.0	7.6	0.0	0.0	0.0	0.0	13	
69	Suncor WTG69	412533	4768085	302.6	104	80.0	0	0.0	-0.3	0.0	5.7	0.0	0.0	0.0	0.0	19	
70	Suncor WTG70	413660	4767965	304.4	104	77.1	0	0.0	-0.4	0.0	4.5	0.0	0.0	0.0	0.0	23	
71	Suncor WTG71	414270	4770586	304.2	104	83.9	0	0.0	-0.6	0.0	7.8	0.0	0.0	0.0	0.0	13	
72	Suncor WTG72	414073	4766424	309.5	104	66.3	0	0.0	-0.6	0.0	1.7	0.0	0.0	0.0	0.0	37	
76	Suncor WTG76	413336	4768393	303.5	103	79.1	0	0.0	-0.3	0.0	5.2	0.0	0.0	0.0	0.0	19	
79	Suncor WTG79	411606	4765300	305.5	104	80.9	0	0.0	-0.3	0.0	6.2	0.0	0.0	0.0	0.0	17	
80	Suncor WTG80	412204	4765168	306.0	104	79.3	0	0.0	-0.3	0.0	5.4	0.0	0.0	0.0	0.0	20	
81	Suncor WTG81	413092	4768868	301.5	104	80.8	0	0.0	-0.3	0.0	6.1	0.0	0.0	0.0	0.0	17	

786 Non-Participating Receptor		409137	4764918	208.0													
Src ID	Src Name	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahous	Cmet	Refl	Lr	
41	Suncor WTG41	410537	4769264	299.5	104	84.2	0	0.0	-0.6	0.0	8.0	0.0	0.0	0.0	0.0	12	
42	Suncor WTG42	413558	4766376	307.5	104	84.4	0	0.0	-0.6	0.0	8.1	0.0	0.0	0.0	0.0	12	
43	Suncor WTG43	410885	4768546	299.5	104	83.1	0	0.0	-0.5	0.0	7.4	0.0	0.0	0.0	0.0	14	
44	Suncor WTG44	409812	4769400	297.5	104	84.1	0	0.0	-0.6	0.0	8.0	0.0	0.0	0.0	0.0	13	
46	Suncor WTG46	413838	4765546	309.7	104	84.5	0	0.0	-0.6	0.0	8.2	0.0	0.0	0.0	0.0	12	
47	Suncor WTG47	408115	4768818	297.5	104	83.1	0	0.0	-0.5	0.0	7.4	0.0	0.0	0.0	0.0	14	
48	Suncor WTG48	408411	4768249	298.4	104	81.7	0	0.0	-0.4	0.0	6.6	0.0	0.0	0.0	0.0	16	
50	Suncor WTG50	410398	4765477	305.2	104	73.8	0	0.0	-0.5	0.0	3.4	0.0	0.0	0.0	0.0	27	
51	Suncor WTG51	408572	4766648	301.4	104	76.2	0	0.0	-0.4	0.0	4.2	0.0	0.0	0.0	0.0	24	
53	Suncor WTG53	408885	4765445	300.0	104	66.4	0	0.0	-0.6	0.0	1.7	0.0	0.0	0.0	0.0	36	
54	Suncor WTG54	407818	4765618	300.2	104	74.5	0	0.0	-0.4	0.0	3.6	0.0	0.0	0.0	0.0	26	
69	Suncor WTG69	412533	4768085	302.6	104	84.3	0	0.0	-0.6	0.0	8.1	0.0	0.0	0.0	0.0	12	
79	Suncor WTG79	411606	4765300	305.5	104	79.0	0	0.0	-0.3	0.0	5.3	0.0	0.0	0.0	0.0	20	
80	Suncor WTG80	412204	4765168	306.0	104	80.8	0	0.0	-0.3	0.0	6.1	0.0	0.0	0.0	0.0	17	

841 Participating Receptor		413085	4772491	204.6													
Src ID	Src Name	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahous	Cmet	Refl	Lr	
23	Suncor WTG23	416180	4775949	304.4	104	84.3	0	0.0	-0.6	0.0	8.1	0.0	0.0	0.0	0.0	12	
24	Suncor WTG24	416619	4775229	305.5	103	84.0	0	0.0	-0.6	0.0	7.6	0.0	0.0	0.0	0.0	12	
25	Suncor WTG25	417026	4774693	305.9	103	84.1	0	0.0	-0.6	0.0	7.7	0.0	0.0	0.0	0.0	12	
27	Suncor WTG27	416257	4774033	305.5	104	82.0	0	0.0	-0.4	0.0	6.7	0.0	0.0	0.0	0.0	16	
30	Suncor WTG30	414976	4774473	303.1	104	79.8	0	0.0	-0.3	0.0	5.6	0.0	0.0	0.0	0.0	19	
31	Suncor WTG31	414508	4773498	302.9	104	75.8	0	0.0	-0.4	0.0	4.1	0.0	0.0	0.0	0.0	25	
32	Suncor WTG32	413984	4773786	301.5	104	75.0	0	0.0	-0.4	0.0	3.8	0.0	0.0	0.0	0.0	26	
34	Suncor WTG34	413419	4773597	299.5	104	72.3	0	0.0	-0.5	0.0	3.0	0.0	0.0	0.0	0.0	29	
35	Suncor WTG35	413507	4771876	301.5	104	68.5	0	0.0	-0.5	0.0	2.1	0.0	0.0	0.0	0.0	34	
36	Suncor WTG36	412817	4771516	299.5	104	71.1	0	0.0	-0.5	0.0	2.7	0.0	0.0	0.0	0.0	31	
37	Suncor WTG37	412242	4771844	298.1	104	71.6	0	0.0	-0.5	0.0	2.8	0.0	0.0	0.0	0.0	30	
39	Suncor WTG39	410803	4771648	294.6	104	78.7	0	0.0	-0.4	0.0	5.2	0.0	0.0	0.0	0.0	20	
40	Suncor WTG40	412134	4769169	298.0	104	81.8	0	0.0	-0.4	0.0	6.6	0.0	0.0	0.0	0.0	16	
41	Suncor WTG41	410537	4769264	299.5	104	83.3	0	0.0	-0.5	0.0	7.5	0.0	0.0	0.0	0.0	14	
43	Suncor WTG43	410885	4768546	299.5	104	84.1	0	0.0	-0.6	0.0	8.0	0.0	0.0	0.0	0.0	13	
44	Suncor WTG44	409812	4769400	297.5	104	84.1	0	0.0	-0.6	0.0	7.9	0.0	0.0	0.0	0.0	13	
69	Suncor WTG69	412533	4768085	302.6	104	84.0	0	0.0	-0.6	0.0	7.9	0.0	0.0	0.0	0.0	13	
70	Suncor WTG70	413660	4767965	304.4	104	84.2	0	0.0	-0.6	0.0	8.0	0.0	0.0	0.0	0.0	12	
71	Suncor WTG71	414270	4770586	304.2	104	78.0	0	0.0	-0.4	0.0	4.9	0.0	0.0	0.0	0.0	22	
76	Suncor WTG76	413336	4768393	303.5	103	83.3	0	0.0	-0.5	0.0	7.2	0.0	0.0	0.0	0.0	13	
81	Suncor WTG81	413092	4768868	301.5	104	82.2	0	0.0	-0.4	0.0	6.9	0.0	0.0	0.0	0.0	15	
Transformer 1	Suncor Transformer 1	416857	4775052	210.9	104	84.2	0	0.0	0.3	4.2	7.3	0.0	0.0	0.0	0.0	8	





939 Non-Participating Receptor		417659	4776703	211.8													
Src ID	Src Name	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahous	Cmet	Refl	Lr	
7	Suncor WTG7	421230	4778184	307.7	103	82.8	0	0.0	-0.4	0.0	6.9	0.0	0.0	0.0	0.0	14	
10	Suncor WTG10	419153	4777370	306.5	102	75.3	0	0.0	-0.3	0.0	3.7	0.0	0.0	0.0	0.0	23	
13	Suncor WTG13	419265	4776572	307.5	103	75.2	0	0.0	-0.4	0.0	3.8	0.0	0.0	0.0	0.0	24	
14	Suncor WTG14	419035	4775996	309.6	103	74.8	0	0.0	-0.4	0.0	3.6	0.0	0.0	0.0	0.0	25	
15	Suncor WTG15	420667	4774508	319.5	103	82.4	0	0.0	-0.4	0.0	6.7	0.0	0.0	0.0	0.0	14	
16	Suncor WTG16	421160	4774048	317.0	103	83.9	0	0.0	-0.5	0.0	7.5	0.0	0.0	0.0	0.0	12	
17	Suncor WTG17	419179	4775153	310.3	104	77.7	0	0.0	-0.4	0.0	4.8	0.0	0.0	0.0	0.0	22	
18	Suncor WTG18	420545	4773644	319.5	104	83.5	0	0.0	-0.5	0.0	7.6	0.0	0.0	0.0	0.0	14	
19	Suncor WTG19	418499	4774532	309.1	103	78.4	0	0.0	-0.3	0.0	4.9	0.0	0.0	0.0	0.0	20	
20	Suncor WTG20	420881	4773009	317.8	103	84.8	0	0.0	-0.6	0.0	8.1	0.0	0.0	0.0	0.0	11	
21	Suncor WTG21	416732	4776214	304.1	102	71.4	0	0.0	-0.4	0.0	2.7	0.0	0.0	0.0	0.0	28	
22	Suncor WTG22	416903	4775746	305.5	103	72.8	0	0.0	-0.4	0.0	3.1	0.0	0.0	0.0	0.0	28	
23	Suncor WTG23	416180	4775949	304.4	104	75.4	0	0.0	-0.4	0.0	3.9	0.0	0.0	0.0	0.0	25	
24	Suncor WTG24	416619	4775229	305.5	103	76.1	0	0.0	-0.4	0.0	4.1	0.0	0.0	0.0	0.0	23	
25	Suncor WTG25	417026	4774693	305.9	103	77.5	0	0.0	-0.3	0.0	4.6	0.0	0.0	0.0	0.0	21	
27	Suncor WTG27	416257	4774033	305.5	104	80.6	0	0.0	-0.3	0.0	6.0	0.0	0.0	0.0	0.0	18	
30	Suncor WTG30	414976	4774473	303.1	104	81.9	0	0.0	-0.4	0.0	6.7	0.0	0.0	0.0	0.0	16	
31	Suncor WTG31	414508	4773498	302.9	104	84.1	0	0.0	-0.6	0.0	7.9	0.0	0.0	0.0	0.0	13	
32	Suncor WTG32	413984	4773786	301.5	104	84.4	0	0.0	-0.6	0.0	8.2	0.0	0.0	0.0	0.0	12	
82	Suncor WTG82	421271	4777618	309.5	104	82.4	0	0.0	-0.4	0.0	7.0	0.0	0.0	0.0	0.0	15	
Transformer 1	Suncor Transformer 1	416857	4775052	210.9	104	76.3	0	0.0	-0.9	0.0	4.1	0.0	0.0	0.0	0.0	24	
WTG P1	Proof Line WTG 1, Vestas V90	416282	4777012	284.3	106	74.0	0	0.0	-0.5	0.0	3.6	0.0	0.0	0.0	0.0	28	
WTG P2	Proof Line WTG 2, Vestas V82	416495	4777750	283.4	107	74.9	0	0.0	-0.3	0.0	4.0	0.0	0.0	0.0	0.0	29	
WTG P3	Proof Line WTG 3, Vestas V82	416902	4778472	280.8	107	76.7	0	0.0	-0.3	0.0	4.6	0.0	0.0	0.0	0.0	26	
WTG P4	Proof Line WTG 4, Vestas V82	417181	4778748	282.0	107	77.5	0	0.0	-0.3	0.0	4.8	0.0	0.0	0.0	0.0	25	
WTG P5	Proof Line WTG 5, Vestas V90	416615	4776648	285.0	106	71.4	0	0.0	-0.5	0.0	2.9	0.0	0.0	0.0	0.0	32	
WTG P6	Proof Line WTG 6, Vestas V82	416977	4777374	284.3	107	70.6	0	0.0	-0.4	0.0	2.9	0.0	0.0	0.0	0.0	34	
WTG R1	Ravenswood WTG1	420250	4780721	283.4	107	84.6	0	0.0	-0.7	0.0	8.1	0.0	0.0	0.0	0.0	15	
WTG R2	Ravenswood WTG2	420389	4780308	285.0	107	84.1	0	0.0	-0.6	0.0	7.8	0.0	0.0	0.0	0.0	16	

994 Non-Participating Receptor		419957	4773527	224.5													
Src ID	Src Name	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahous	Cmet	Refl	Lr	
7	Suncor WTG7	421230	4778184	307.7	103	84.7	0	0.0	-0.6	0.0	8.0	0.0	0.0	0.0	0.0	11	
8	Suncor WTG8	422865	4777232	314.6	103	84.5	0	0.0	-0.6	0.0	7.9	0.0	0.0	0.0	0.0	11	
9	Suncor WTG9	422893	4775653	317.6	103	82.2	0	0.0	-0.4	0.0	6.6	0.0	0.0	0.0	0.0	15	
10	Suncor WTG10	419153	4777370	306.5	102	82.9	0	0.0	-0.4	0.0	6.7	0.0	0.0	0.0	0.0	13	
11	Suncor WTG11	422661	4775136	317.9	103	81.0	0	0.0	-0.3	0.0	6.0	0.0	0.0	0.0	0.0	16	
13	Suncor WTG13	419265	4776572	307.5	103	80.9	0	0.0	-0.3	0.0	6.0	0.0	0.0	0.0	0.0	16	
14	Suncor WTG14	419035	4775996	309.6	103	79.4	0	0.0	-0.3	0.0	5.3	0.0	0.0	0.0	0.0	19	
15	Suncor WTG15	420667	4774508	319.5	103	72.7	0	0.0	-0.4	0.0	3.0	0.0	0.0	0.0	0.0	28	
16	Suncor WTG16	421160	4774048	317.0	103	73.4	0	0.0	-0.4	0.0	3.2	0.0	0.0	0.0	0.0	27	
17	Suncor WTG17	419179	4775153	310.3	104	76.1	0	0.0	-0.4	0.0	4.2	0.0	0.0	0.0	0.0	24	
18	Suncor WTG18	420545	4773644	319.5	104	66.7	0	0.0	-0.6	0.0	1.8	0.0	0.0	0.0	0.0	36	
19	Suncor WTG19	418499	4774532	309.1	103	76.0	0	0.0	-0.4	0.0	4.0	0.0	0.0	0.0	0.0	23	
20	Suncor WTG20	420881	4773009	317.8	103	71.5	0	0.0	-0.4	0.0	2.8	0.0	0.0	0.0	0.0	29	
21	Suncor WTG21	416732	4776214	304.1	102	83.5	0	0.0	-0.5	0.0	7.0	0.0	0.0	0.0	0.0	12	
22	Suncor WTG22	416903	4775746	305.5	103	82.5	0	0.0	-0.4	0.0	6.8	0.0	0.0	0.0	0.0	14	
23	Suncor WTG23	416180	4775949	304.4	104	84.0	0	0.0	-0.6	0.0	7.9	0.0	0.0	0.0	0.0	13	
24	Suncor WTG24	416619	4775229	305.5	103	82.5	0	0.0	-0.4	0.0	6.8	0.0	0.0	0.0	0.0	14	
25	Suncor WTG25	417026	4774693	305.9	103	81.0	0	0.0	-0.3	0.0	6.0	0.0	0.0	0.0	0.0	16	
26	Suncor WTG26	421548	4770968	323.2	104	80.6	0	0.0	-0.3	0.0	6.0	0.0	0.0	0.0	0.0	18	
27	Suncor WTG27	416257	4774033	305.5	104	82.5	0	0.0	-0.4	0.0	7.0	0.0	0.0	0.0	0.0	15	
29	Suncor WTG29	420519	4770628	325.0	104	80.4	0	0.0	-0.3	0.0	6.0	0.0	0.0	0.0	0.0	18	
82	Suncor WTG82	421271	4777618	309.5	104	83.7	0	0.0	-0.5	0.0	7.7	0.0	0.0	0.0	0.0	13	
Jericho_WTG35	Jericho WTG 35	423023	4774153	300.4	103	80.9	0	0.0	-0.4	0.0	6.3	0.0	0.0	0.0	0.0	16	
Jericho_WTG36	Jericho WTG 36	423163	4773804	301.0	103	81.2	0	0.0	-0.4	0.0	6.5	0.0	0.0	0.0	0.0	16	
Jericho_WTG37	Jericho WTG 37	422709	4773370	301.4	103	79.8	0	0.0	-0.3	0.0	5.8	0.0	0.0	0.0	0.0	18	
Jericho_WTG38	Jericho WTG 38	422315	4772336	302.0	103	79.4	0	0.0	-0.3	0.0	5.7	0.0	0.0	0.0	0.0	18	
Jericho_WTG40	Jericho WTG 40	424739	4774512	303.9	103	84.8	0	0.0	-0.7	0.0	8.4	0.0	0.0	0.0	0.0	11	
Jericho_WTG43	Jericho WTG 43	424568	4773358	306.5	103	84.3	0	0.0	-0.6	0.0	8.1	0.0	0.0	0.0	0.0	11	
Jericho_WTG88	Jericho WTG 88	423333	4771025	307.6	103	83.5	0	0.0	-0.6	0.0	7.7	0.0	0.0	0.0	0.0	13	
Jericho_WTG89	Jericho WTG 89	423570	4770500	310.0	103	84.5	0	0.0	-0.6	0.0	8.2	0.0	0.0	0.0	0.0	11	
Transformer 1	Suncor Transformer 1	416857	4775052	210.9	104	81.8	0	0.0	-0.7	0.0	6.6	0.0	0.0	0.0	0.0	16	
WTG P5	Proof Line WTG 5, Vestas V90	416615	4776648	285.0	106	84.2	0	0.0	-0.7	0.0	8.1	0.0	0.0	0.0	0.0	14	
WTG P6	Proof Line WTG 6, Vestas V82	416977	4777374	284.3	107	84.7	0	0.0	-0.7	0.0	8.2	0.0	0.0	0.0	0.0	15	





1052 Non-Participating Receptor		422149	4779830	210.5													
Src ID	Src Name	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahous	Cmet	Refl	Lr	
1	Suncor WTG1	423325	4779948	306.2	103	72.5	0	0.0	-0.4	0.0	3.0	0.0	0.0	0.0	0.0	28	
2	Suncor WTG2	423377	4779348	307.5	103	73.4	0	0.0	-0.4	0.0	3.2	0.0	0.0	0.0	0.0	27	
4	Suncor WTG4	422879	4778982	307.8	103	72.0	0	0.0	-0.4	0.0	2.9	0.0	0.0	0.0	0.0	29	
5	Suncor WTG5	423245	4778344	309.5	103	76.3	0	0.0	-0.4	0.0	4.1	0.0	0.0	0.0	0.0	23	
6	Suncor WTG6	422802	4778020	310.4	103	76.7	0	0.0	-0.3	0.0	4.3	0.0	0.0	0.0	0.0	22	
7	Suncor WTG7	421230	4778184	307.7	103	76.5	0	0.0	-0.4	0.0	4.2	0.0	0.0	0.0	0.0	23	
8	Suncor WTG8	422865	4777232	314.6	103	79.6	0	0.0	-0.3	0.0	5.4	0.0	0.0	0.0	0.0	18	
9	Suncor WTG9	422893	4775653	317.6	103	83.6	0	0.0	-0.5	0.0	7.3	0.0	0.0	0.0	0.0	13	
10	Suncor WTG10	419153	4777370	306.5	102	82.8	0	0.0	-0.4	0.0	6.7	0.0	0.0	0.0	0.0	13	
11	Suncor WTG11	422661	4775136	317.9	103	84.5	0	0.0	-0.6	0.0	7.9	0.0	0.0	0.0	0.0	11	
13	Suncor WTG13	419265	4776572	307.5	103	83.8	0	0.0	-0.5	0.0	7.5	0.0	0.0	0.0	0.0	12	
14	Suncor WTG14	419035	4775996	309.6	103	84.9	0	0.0	-0.6	0.0	8.1	0.0	0.0	0.0	0.0	11	
82	Suncor WTG82	421271	4777618	309.5	104	78.5	0	0.0	-0.4	0.0	5.1	0.0	0.0	0.0	0.0	21	
Jericho_WTG1	Jericho WTG 01	422934	4782626	271.7	103	80.3	0	0.0	-0.4	0.0	6.0	0.0	0.0	0.0	0.0	17	
Jericho_WTG11	Jericho WTG 11	423300	4781540	279.4	103	77.3	0	0.0	-0.3	0.0	4.8	0.0	0.0	0.0	0.0	21	
Jericho_WTG12	Jericho WTG 12	423455	4781110	282.9	103	76.3	0	0.0	-0.3	0.0	4.4	0.0	0.0	0.0	0.0	23	
Jericho_WTG13	Jericho WTG 13	425096	4781354	278.0	103	81.4	0	0.0	-0.4	0.0	6.6	0.0	0.0	0.0	0.0	15	
Jericho_WTG14	Jericho WTG 14	425407	4780588	284.0	103	81.5	0	0.0	-0.5	0.0	6.6	0.0	0.0	0.0	0.0	15	
Jericho_WTG15	Jericho WTG 15	425432	4779689	286.0	103	81.3	0	0.0	-0.4	0.0	6.5	0.0	0.0	0.0	0.0	16	
Jericho_WTG16	Jericho WTG 16	425427	4779324	288.0	103	81.4	0	0.0	-0.4	0.0	6.6	0.0	0.0	0.0	0.0	15	
Jericho_WTG17	Jericho WTG 17	425438	4779000	288.5	103	81.6	0	0.0	-0.5	0.0	6.7	0.0	0.0	0.0	0.0	15	
Jericho_WTG18	Jericho WTG 18	424671	4777622	292.9	103	81.5	0	0.0	-0.5	0.0	6.6	0.0	0.0	0.0	0.0	15	
Jericho_WTG2	Jericho WTG 02	425395	4782628	270.0	103	83.6	0	0.0	-0.6	0.0	7.8	0.0	0.0	0.0	0.0	12	
Jericho_WTG21	Jericho WTG 21	426904	4779457	287.7	103	84.6	0	0.0	-0.6	0.0	8.3	0.0	0.0	0.0	0.0	11	
Jericho_WTG23	Jericho WTG 23	426912	4779124	290.0	103	84.7	0	0.0	-0.7	0.0	8.3	0.0	0.0	0.0	0.0	11	
Jericho_WTG25	Jericho WTG 25	426702	4778724	289.4	103	84.4	0	0.0	-0.6	0.0	8.2	0.0	0.0	0.0	0.0	11	
Jericho_WTG3	Jericho WTG 03	425072	4782306	270.9	103	82.7	0	0.0	-0.5	0.0	7.2	0.0	0.0	0.0	0.0	14	
WTG R1	Ravenswood WTG1	420250	4780721	283.4	107	77.4	0	0.0	-0.3	0.0	4.8	0.0	0.0	0.0	0.0	25	
WTG R2	Ravenswood WTG2	420389	4780308	285.0	107	76.2	0	0.0	-0.3	0.0	4.4	0.0	0.0	0.0	0.0	27	
WTG R3	Ravenswood WTG3	420207	4781572	278.1	107	79.3	0	0.0	-0.3	0.0	5.6	0.0	0.0	0.0	0.0	23	
WTG R4	Ravenswood WTG4	421256	4780873	281.1	107	73.8	0	0.0	-0.4	0.0	3.6	0.0	0.0	0.0	0.0	30	
WTG R5	Ravenswood WTG5	420208	4781269	280.0	107	78.7	0	0.0	-0.2	0.0	5.3	0.0	0.0	0.0	0.0	24	
WTG R6	Ravenswood WTG6	420923	4780537	284.5	107	74.0	0	0.0	-0.4	0.0	3.7	0.0	0.0	0.0	0.0	30	





Summary of Calculations - Octave Band Format

939 Non-Participating Receptor		417659 4776703 211.8																
Src ID	Src Name	Band	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahou	Cmet	Refl	Lr	Band
7	Suncor WTG7	63	421230	4778183	307.7	85	82.8	0	0.0	-3.6	0.0	0.5	0.0	0.0	0.0	0.0	5	63
7	Suncor WTG7	125	421230	4778183	307.7	91	82.8	0	0.0	1.6	0.0	1.6	0.0	0.0	0.0	0.0	5	125
7	Suncor WTG7	250	421230	4778183	307.7	97	82.8	0	0.0	-0.1	0.0	4.0	0.0	0.0	0.0	0.0	10	250
7	Suncor WTG7	500	421230	4778183	307.7	97	82.8	0	0.0	-1.1	0.0	7.5	0.0	0.0	0.0	0.0	8	500
7	Suncor WTG7	1000	421230	4778183	307.7	97	82.8	0	0.0	-1.1	0.0	14.1	0.0	0.0	0.0	0.0	2	1000
7	Suncor WTG7	2000	421230	4778183	307.7	95	82.8	0	0.0	-1.1	0.0	37.4	0.0	0.0	0.0	0.0	--	2000
7	Suncor WTG7	4000	421230	4778183	307.7	84	82.8	0	0.0	-1.1	0.0	126.7	0.0	0.0	0.0	0.0	--	4000
7	Suncor WTG7	8000	421230	4778183	307.7	66	82.8	0	0.0	-1.1	0.0	452.0	0.0	0.0	0.0	0.0	--	8000
10	Suncor WTG10	63	419153	4777370	306.5	84	75.3	0	0.0	-3.0	0.0	0.2	0.0	0.0	0.0	0.0	12	63
10	Suncor WTG10	125	419153	4777370	306.5	90	75.3	0	0.0	1.8	0.0	0.7	0.0	0.0	0.0	0.0	12	125
10	Suncor WTG10	250	419153	4777370	306.5	96	75.3	0	0.0	0.1	0.0	1.7	0.0	0.0	0.0	0.0	19	250
10	Suncor WTG10	500	419153	4777370	306.5	95	75.3	0	0.0	-0.9	0.0	3.2	0.0	0.0	0.0	0.0	18	500
10	Suncor WTG10	1000	419153	4777370	306.5	96	75.3	0	0.0	-0.9	0.0	6.0	0.0	0.0	0.0	0.0	16	1000
10	Suncor WTG10	2000	419153	4777370	306.5	94	75.3	0	0.0	-0.9	0.0	15.8	0.0	0.0	0.0	0.0	4	2000
10	Suncor WTG10	4000	419153	4777370	306.5	84	75.3	0	0.0	-0.9	0.0	53.7	0.0	0.0	0.0	0.0	--	4000
10	Suncor WTG10	8000	419153	4777370	306.5	67	75.3	0	0.0	-0.9	0.0	191.6	0.0	0.0	0.0	0.0	--	8000
13	Suncor WTG13	63	419265	4776572	307.5	85	75.2	0	0.0	-3.0	0.0	0.2	0.0	0.0	0.0	0.0	12	63
13	Suncor WTG13	125	419265	4776572	307.5	91	75.2	0	0.0	1.8	0.0	0.7	0.0	0.0	0.0	0.0	13	125
13	Suncor WTG13	250	419265	4776572	307.5	97	75.2	0	0.0	0.1	0.0	1.7	0.0	0.0	0.0	0.0	20	250
13	Suncor WTG13	500	419265	4776572	307.5	97	75.2	0	0.0	-0.9	0.0	3.1	0.0	0.0	0.0	0.0	19	500
13	Suncor WTG13	1000	419265	4776572	307.5	97	75.2	0	0.0	-0.9	0.0	5.9	0.0	0.0	0.0	0.0	17	1000
13	Suncor WTG13	2000	419265	4776572	307.5	95	75.2	0	0.0	-0.9	0.0	15.6	0.0	0.0	0.0	0.0	5	2000
13	Suncor WTG13	4000	419265	4776572	307.5	84	75.2	0	0.0	-0.9	0.0	52.9	0.0	0.0	0.0	0.0	--	4000
13	Suncor WTG13	8000	419265	4776572	307.5	66	75.2	0	0.0	-0.9	0.0	188.7	0.0	0.0	0.0	0.0	--	8000
14	Suncor WTG14	63	419035	4775996	309.6	85	74.8	0	0.0	-3.0	0.0	0.2	0.0	0.0	0.0	0.0	13	63
14	Suncor WTG14	125	419035	4775996	309.6	91	74.8	0	0.0	1.8	0.0	0.6	0.0	0.0	0.0	0.0	13	125
14	Suncor WTG14	250	419035	4775996	309.6	97	74.8	0	0.0	0.1	0.0	1.6	0.0	0.0	0.0	0.0	21	250
14	Suncor WTG14	500	419035	4775996	309.6	97	74.8	0	0.0	-0.9	0.0	3.0	0.0	0.0	0.0	0.0	20	500
14	Suncor WTG14	1000	419035	4775996	309.6	97	74.8	0	0.0	-0.9	0.0	5.7	0.0	0.0	0.0	0.0	18	1000
14	Suncor WTG14	2000	419035	4775996	309.6	95	74.8	0	0.0	-0.9	0.0	15.0	0.0	0.0	0.0	0.0	6	2000
14	Suncor WTG14	4000	419035	4775996	309.6	84	74.8	0	0.0	-0.9	0.0	50.8	0.0	0.0	0.0	0.0	--	4000
14	Suncor WTG14	8000	419035	4775996	309.6	66	74.8	0	0.0	-0.9	0.0	181.2	0.0	0.0	0.0	0.0	--	8000
15	Suncor WTG15	63	420667	4774508	319.5	85	82.4	0	0.0	-3.5	0.0	0.5	0.0	0.0	0.0	0.0	5	63
15	Suncor WTG15	125	420667	4774508	319.5	91	82.4	0	0.0	1.6	0.0	1.5	0.0	0.0	0.0	0.0	5	125
15	Suncor WTG15	250	420667	4774508	319.5	97	82.4	0	0.0	-0.1	0.0	3.9	0.0	0.0	0.0	0.0	11	250
15	Suncor WTG15	500	420667	4774508	319.5	97	82.4	0	0.0	-1.1	0.0	7.2	0.0	0.0	0.0	0.0	8	500
15	Suncor WTG15	1000	420667	4774508	319.5	97	82.4	0	0.0	-1.1	0.0	13.6	0.0	0.0	0.0	0.0	2	1000
15	Suncor WTG15	2000	420667	4774508	319.5	95	82.4	0	0.0	-1.1	0.0	36.0	0.0	0.0	0.0	0.0	--	2000
15	Suncor WTG15	4000	420667	4774508	319.5	84	82.4	0	0.0	-1.1	0.0	122.1	0.0	0.0	0.0	0.0	--	4000
15	Suncor WTG15	8000	420667	4774508	319.5	66	82.4	0	0.0	-1.1	0.0	435.4	0.0	0.0	0.0	0.0	--	8000



ACOUSTICS



NOISE



VIBRATION

Where: Lr = Lx - Adiv + K0 + Dc - Agnd - Abar - Aatm - Afol - Ahou - Cmet + Refl



Src ID	Src Name	Band	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahous	Cmet	Refl	Lr	Band
16	Suncor WTG16	63	421160	4774047	317.0	85	83.9	0	0.0	-3.9	0.0	0.5	0.0	0.0	0.0	0.0	4	63
16	Suncor WTG16	125	421160	4774047	317.0	91	83.9	0	0.0	1.5	0.0	1.8	0.0	0.0	0.0	0.0	3	125
16	Suncor WTG16	250	421160	4774047	317.0	97	83.9	0	0.0	-0.2	0.0	4.6	0.0	0.0	0.0	0.0	9	250
16	Suncor WTG16	500	421160	4774047	317.0	97	83.9	0	0.0	-1.2	0.0	8.5	0.0	0.0	0.0	0.0	6	500
16	Suncor WTG16	1000	421160	4774047	317.0	97	83.9	0	0.0	-1.2	0.0	16.1	0.0	0.0	0.0	0.0	--	1000
16	Suncor WTG16	2000	421160	4774047	317.0	95	83.9	0	0.0	-1.2	0.0	42.5	0.0	0.0	0.0	0.0	--	2000
16	Suncor WTG16	4000	421160	4774047	317.0	84	83.9	0	0.0	-1.2	0.0	144.1	0.0	0.0	0.0	0.0	--	4000
16	Suncor WTG16	8000	421160	4774047	317.0	66	83.9	0	0.0	-1.2	0.0	513.8	0.0	0.0	0.0	0.0	--	8000
17	Suncor WTG17	63	419179	4775153	310.3	85	77.7	0	0.0	-3.0	0.0	0.3	0.0	0.0	0.0	0.0	10	63
17	Suncor WTG17	125	419179	4775153	310.3	91	77.7	0	0.0	1.8	0.0	0.9	0.0	0.0	0.0	0.0	10	125
17	Suncor WTG17	250	419179	4775153	310.3	98	77.7	0	0.0	0.1	0.0	2.3	0.0	0.0	0.0	0.0	18	250
17	Suncor WTG17	500	419179	4775153	310.3	98	77.7	0	0.0	-0.9	0.0	4.2	0.0	0.0	0.0	0.0	17	500
17	Suncor WTG17	1000	419179	4775153	310.3	99	77.7	0	0.0	-0.9	0.0	8.0	0.0	0.0	0.0	0.0	14	1000
17	Suncor WTG17	2000	419179	4775153	310.3	96	77.7	0	0.0	-0.9	0.0	21.0	0.0	0.0	0.0	0.0	--	2000
17	Suncor WTG17	4000	419179	4775153	310.3	84	77.7	0	0.0	-0.9	0.0	71.2	0.0	0.0	0.0	0.0	--	4000
17	Suncor WTG17	8000	419179	4775153	310.3	66	77.7	0	0.0	-0.9	0.0	254.0	0.0	0.0	0.0	0.0	--	8000
18	Suncor WTG18	63	420545	4773644	319.5	85	83.5	0	0.0	-3.8	0.0	0.5	0.0	0.0	0.0	0.0	5	63
18	Suncor WTG18	125	420545	4773644	319.5	91	83.5	0	0.0	1.6	0.0	1.7	0.0	0.0	0.0	0.0	4	125
18	Suncor WTG18	250	420545	4773644	319.5	98	83.5	0	0.0	-0.2	0.0	4.4	0.0	0.0	0.0	0.0	10	250
18	Suncor WTG18	500	420545	4773644	319.5	98	83.5	0	0.0	-1.1	0.0	8.1	0.0	0.0	0.0	0.0	8	500
18	Suncor WTG18	1000	420545	4773644	319.5	99	83.5	0	0.0	-1.1	0.0	15.4	0.0	0.0	0.0	0.0	1	1000
18	Suncor WTG18	2000	420545	4773644	319.5	96	83.5	0	0.0	-1.1	0.0	40.7	0.0	0.0	0.0	0.0	--	2000
18	Suncor WTG18	4000	420545	4773644	319.5	84	83.5	0	0.0	-1.1	0.0	137.9	0.0	0.0	0.0	0.0	--	4000
18	Suncor WTG18	8000	420545	4773644	319.5	66	83.5	0	0.0	-1.1	0.0	491.7	0.0	0.0	0.0	0.0	--	8000
19	Suncor WTG19	63	418499	4774532	309.1	85	78.4	0	0.0	-3.0	0.0	0.3	0.0	0.0	0.0	0.0	9	63
19	Suncor WTG19	125	418499	4774532	309.1	91	78.4	0	0.0	1.8	0.0	1.0	0.0	0.0	0.0	0.0	10	125
19	Suncor WTG19	250	418499	4774532	309.1	97	78.4	0	0.0	0.1	0.0	2.4	0.0	0.0	0.0	0.0	16	250
19	Suncor WTG19	500	418499	4774532	309.1	97	78.4	0	0.0	-0.9	0.0	4.5	0.0	0.0	0.0	0.0	15	500
19	Suncor WTG19	1000	418499	4774532	309.1	97	78.4	0	0.0	-0.9	0.0	8.5	0.0	0.0	0.0	0.0	11	1000
19	Suncor WTG19	2000	418499	4774532	309.1	95	78.4	0	0.0	-0.9	0.0	22.5	0.0	0.0	0.0	0.0	--	2000
19	Suncor WTG19	4000	418499	4774532	309.1	84	78.4	0	0.0	-0.9	0.0	76.4	0.0	0.0	0.0	0.0	--	4000
19	Suncor WTG19	8000	418499	4774532	309.1	66	78.4	0	0.0	-0.9	0.0	272.3	0.0	0.0	0.0	0.0	--	8000
20	Suncor WTG20	63	420881	4773009	317.8	85	84.8	0	0.0	-4.1	0.0	0.6	0.0	0.0	0.0	0.0	3	63
20	Suncor WTG20	125	420881	4773009	317.8	91	84.8	0	0.0	1.5	0.0	2.0	0.0	0.0	0.0	0.0	2	125
20	Suncor WTG20	250	420881	4773009	317.8	97	84.8	0	0.0	-0.3	0.0	5.1	0.0	0.0	0.0	0.0	7	250
20	Suncor WTG20	500	420881	4773009	317.8	97	84.8	0	0.0	-1.2	0.0	9.5	0.0	0.0	0.0	0.0	4	500
20	Suncor WTG20	1000	420881	4773009	317.8	97	84.8	0	0.0	-1.2	0.0	17.9	0.0	0.0	0.0	0.0	--	1000
20	Suncor WTG20	2000	420881	4773009	317.8	95	84.8	0	0.0	-1.2	0.0	47.4	0.0	0.0	0.0	0.0	--	2000
20	Suncor WTG20	4000	420881	4773009	317.8	84	84.8	0	0.0	-1.2	0.0	160.7	0.0	0.0	0.0	0.0	--	4000
20	Suncor WTG20	8000	420881	4773009	317.8	66	84.8	0	0.0	-1.2	0.0	573.1	0.0	0.0	0.0	0.0	--	8000
21	Suncor WTG21	63	416732	4776214	304.1	84	71.4	0	0.0	-3.0	0.0	0.1	0.0	0.0	0.0	0.0	16	63
21	Suncor WTG21	125	416732	4776214	304.1	90	71.4	0	0.0	1.8	0.0	0.4	0.0	0.0	0.0	0.0	17	125
21	Suncor WTG21	250	416732	4776214	304.1	96	71.4	0	0.0	0.1	0.0	1.1	0.0	0.0	0.0	0.0	24	250



ACOUSTICS



NOISE



VIBRATION

Where: Lr = Lx - Adiv + K0 + Dc - Agnd - Abar - Aatm - Afol - Ahous - Cmet + Refl



Src ID	Src Name	Band	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahous	Cmet	Refl	Lr	Band
21	Suncor WTG21	500	416732	4776214	304.1	95	71.4	0	0.0	-0.9	0.0	2.0	0.0	0.0	0.0	0.0	23	500
21	Suncor WTG21	1000	416732	4776214	304.1	96	71.4	0	0.0	-0.9	0.0	3.9	0.0	0.0	0.0	0.0	22	1000
21	Suncor WTG21	2000	416732	4776214	304.1	94	71.4	0	0.0	-0.9	0.0	10.2	0.0	0.0	0.0	0.0	14	2000
21	Suncor WTG21	4000	416732	4776214	304.1	84	71.4	0	0.0	-0.9	0.0	34.5	0.0	0.0	0.0	0.0	--	4000
21	Suncor WTG21	8000	416732	4776214	304.1	67	71.4	0	0.0	-0.9	0.0	123.0	0.0	0.0	0.0	0.0	--	8000
22	Suncor WTG22	63	416903	4775746	305.5	85	72.8	0	0.0	-3.0	0.0	0.2	0.0	0.0	0.0	0.0	15	63
22	Suncor WTG22	125	416903	4775746	305.5	91	72.8	0	0.0	1.8	0.0	0.5	0.0	0.0	0.0	0.0	16	125
22	Suncor WTG22	250	416903	4775746	305.5	97	72.8	0	0.0	0.1	0.0	1.3	0.0	0.0	0.0	0.0	23	250
22	Suncor WTG22	500	416903	4775746	305.5	97	72.8	0	0.0	-0.9	0.0	2.4	0.0	0.0	0.0	0.0	22	500
22	Suncor WTG22	1000	416903	4775746	305.5	97	72.8	0	0.0	-0.9	0.0	4.5	0.0	0.0	0.0	0.0	21	1000
22	Suncor WTG22	2000	416903	4775746	305.5	95	72.8	0	0.0	-0.9	0.0	11.8	0.0	0.0	0.0	0.0	11	2000
22	Suncor WTG22	4000	416903	4775746	305.5	84	72.8	0	0.0	-0.9	0.0	40.1	0.0	0.0	0.0	0.0	--	4000
22	Suncor WTG22	8000	416903	4775746	305.5	66	72.8	0	0.0	-0.9	0.0	143.0	0.0	0.0	0.0	0.0	--	8000
23	Suncor WTG23	63	416180	4775949	304.4	85	75.4	0	0.0	-3.0	0.0	0.2	0.0	0.0	0.0	0.0	12	63
23	Suncor WTG23	125	416180	4775949	304.4	91	75.4	0	0.0	1.8	0.0	0.7	0.0	0.0	0.0	0.0	13	125
23	Suncor WTG23	250	416180	4775949	304.4	98	75.4	0	0.0	0.1	0.0	1.7	0.0	0.0	0.0	0.0	20	250
23	Suncor WTG23	500	416180	4775949	304.4	98	75.4	0	0.0	-0.9	0.0	3.2	0.0	0.0	0.0	0.0	20	500
23	Suncor WTG23	1000	416180	4775949	304.4	99	75.4	0	0.0	-0.9	0.0	6.1	0.0	0.0	0.0	0.0	18	1000
23	Suncor WTG23	2000	416180	4775949	304.4	96	75.4	0	0.0	-0.9	0.0	16.1	0.0	0.0	0.0	0.0	5	2000
23	Suncor WTG23	4000	416180	4775949	304.4	84	75.4	0	0.0	-0.9	0.0	54.5	0.0	0.0	0.0	0.0	--	4000
23	Suncor WTG23	8000	416180	4775949	304.4	66	75.4	0	0.0	-0.9	0.0	194.3	0.0	0.0	0.0	0.0	--	8000
24	Suncor WTG24	63	416619	4775229	305.5	85	76.1	0	0.0	-3.0	0.0	0.2	0.0	0.0	0.0	0.0	11	63
24	Suncor WTG24	125	416619	4775229	305.5	91	76.1	0	0.0	1.8	0.0	0.7	0.0	0.0	0.0	0.0	12	125
24	Suncor WTG24	250	416619	4775229	305.5	97	76.1	0	0.0	0.1	0.0	1.9	0.0	0.0	0.0	0.0	19	250
24	Suncor WTG24	500	416619	4775229	305.5	97	76.1	0	0.0	-0.9	0.0	3.5	0.0	0.0	0.0	0.0	18	500
24	Suncor WTG24	1000	416619	4775229	305.5	97	76.1	0	0.0	-0.9	0.0	6.6	0.0	0.0	0.0	0.0	16	1000
24	Suncor WTG24	2000	416619	4775229	305.5	95	76.1	0	0.0	-0.9	0.0	17.5	0.0	0.0	0.0	0.0	2	2000
24	Suncor WTG24	4000	416619	4775229	305.5	84	76.1	0	0.0	-0.9	0.0	59.2	0.0	0.0	0.0	0.0	--	4000
24	Suncor WTG24	8000	416619	4775229	305.5	66	76.1	0	0.0	-0.9	0.0	211.1	0.0	0.0	0.0	0.0	--	8000
25	Suncor WTG25	63	417026	4774693	305.9	85	77.5	0	0.0	-3.0	0.0	0.3	0.0	0.0	0.0	0.0	10	63
25	Suncor WTG25	125	417026	4774693	305.9	91	77.5	0	0.0	1.8	0.0	0.9	0.0	0.0	0.0	0.0	10	125
25	Suncor WTG25	250	417026	4774693	305.9	97	77.5	0	0.0	0.1	0.0	2.2	0.0	0.0	0.0	0.0	17	250
25	Suncor WTG25	500	417026	4774693	305.9	97	77.5	0	0.0	-0.9	0.0	4.1	0.0	0.0	0.0	0.0	16	500
25	Suncor WTG25	1000	417026	4774693	305.9	97	77.5	0	0.0	-0.9	0.0	7.7	0.0	0.0	0.0	0.0	13	1000
25	Suncor WTG25	2000	417026	4774693	305.9	95	77.5	0	0.0	-0.9	0.0	20.4	0.0	0.0	0.0	0.0	--	2000
25	Suncor WTG25	4000	417026	4774693	305.9	84	77.5	0	0.0	-0.9	0.0	69.1	0.0	0.0	0.0	0.0	--	4000
25	Suncor WTG25	8000	417026	4774693	305.9	66	77.5	0	0.0	-0.9	0.0	246.6	0.0	0.0	0.0	0.0	--	8000
27	Suncor WTG27	63	416257	4774033	305.5	85	80.6	0	0.0	-3.0	0.0	0.4	0.0	0.0	0.0	0.0	7	63
27	Suncor WTG27	125	416257	4774033	305.5	91	80.6	0	0.0	1.8	0.0	1.2	0.0	0.0	0.0	0.0	7	125
27	Suncor WTG27	250	416257	4774033	305.5	98	80.6	0	0.0	0.1	0.0	3.2	0.0	0.0	0.0	0.0	14	250
27	Suncor WTG27	500	416257	4774033	305.5	98	80.6	0	0.0	-0.9	0.0	5.8	0.0	0.0	0.0	0.0	13	500
27	Suncor WTG27	1000	416257	4774033	305.5	99	80.6	0	0.0	-0.9	0.0	11.0	0.0	0.0	0.0	0.0	8	1000
27	Suncor WTG27	2000	416257	4774033	305.5	96	80.6	0	0.0	-0.9	0.0	29.2	0.0	0.0	0.0	0.0	--	2000



ACOUSTICS



NOISE



VIBRATION

Where: Lr = Lx - Adiv + K0 + Dc - Agnd - Abar - Aatm - Afol - Ahous - Cmet + Refl



Src ID	Src Name	Band	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahou	Cmet	Refl	Lr	Band
27	Suncor WTG27	4000	416257	4774033	305.5	84	80.6	0	0.0	-0.9	0.0	98.9	0.0	0.0	0.0	0.0	--	4000
27	Suncor WTG27	8000	416257	4774033	305.5	66	80.6	0	0.0	-0.9	0.0	352.7	0.0	0.0	0.0	0.0	--	8000
30	Suncor WTG30	63	414976	4774473	303.1	85	81.9	0	0.0	-3.3	0.0	0.4	0.0	0.0	0.0	0.0	6	63
30	Suncor WTG30	125	414976	4774473	303.1	91	81.9	0	0.0	1.7	0.0	1.4	0.0	0.0	0.0	0.0	6	125
30	Suncor WTG30	250	414976	4774473	303.1	98	81.9	0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	12	250
30	Suncor WTG30	500	414976	4774473	303.1	98	81.9	0	0.0	-1.0	0.0	6.7	0.0	0.0	0.0	0.0	11	500
30	Suncor WTG30	1000	414976	4774473	303.1	99	81.9	0	0.0	-1.0	0.0	12.8	0.0	0.0	0.0	0.0	5	1000
30	Suncor WTG30	2000	414976	4774473	303.1	96	81.9	0	0.0	-1.0	0.0	33.7	0.0	0.0	0.0	0.0	--	2000
30	Suncor WTG30	4000	414976	4774473	303.1	84	81.9	0	0.0	-1.0	0.0	114.4	0.0	0.0	0.0	0.0	--	4000
30	Suncor WTG30	8000	414976	4774473	303.1	66	81.9	0	0.0	-1.0	0.0	407.9	0.0	0.0	0.0	0.0	--	8000
31	Suncor WTG31	63	414508	4773498	302.9	85	84.1	0	0.0	-3.9	0.0	0.6	0.0	0.0	0.0	0.0	4	63
31	Suncor WTG31	125	414508	4773498	302.9	91	84.1	0	0.0	1.5	0.0	1.8	0.0	0.0	0.0	0.0	3	125
31	Suncor WTG31	250	414508	4773498	302.9	98	84.1	0	0.0	-0.2	0.0	4.7	0.0	0.0	0.0	0.0	9	250
31	Suncor WTG31	500	414508	4773498	302.9	98	84.1	0	0.0	-1.2	0.0	8.7	0.0	0.0	0.0	0.0	7	500
31	Suncor WTG31	1000	414508	4773498	302.9	99	84.1	0	0.0	-1.2	0.0	16.4	0.0	0.0	0.0	0.0	--	1000
31	Suncor WTG31	2000	414508	4773498	302.9	96	84.1	0	0.0	-1.2	0.0	43.4	0.0	0.0	0.0	0.0	--	2000
31	Suncor WTG31	4000	414508	4773498	302.9	84	84.1	0	0.0	-1.2	0.0	147.3	0.0	0.0	0.0	0.0	--	4000
31	Suncor WTG31	8000	414508	4773498	302.9	66	84.1	0	0.0	-1.2	0.0	525.4	0.0	0.0	0.0	0.0	--	8000
32	Suncor WTG32	63	413984	4773786	301.5	85	84.4	0	0.0	-4.0	0.0	0.6	0.0	0.0	0.0	0.0	4	63
32	Suncor WTG32	125	413984	4773786	301.5	91	84.4	0	0.0	1.5	0.0	1.9	0.0	0.0	0.0	0.0	3	125
32	Suncor WTG32	250	413984	4773786	301.5	98	84.4	0	0.0	-0.2	0.0	4.9	0.0	0.0	0.0	0.0	9	250
32	Suncor WTG32	500	413984	4773786	301.5	98	84.4	0	0.0	-1.2	0.0	9.1	0.0	0.0	0.0	0.0	6	500
32	Suncor WTG32	1000	413984	4773786	301.5	99	84.4	0	0.0	-1.2	0.0	17.2	0.0	0.0	0.0	0.0	--	1000
32	Suncor WTG32	2000	413984	4773786	301.5	96	84.4	0	0.0	-1.2	0.0	45.4	0.0	0.0	0.0	0.0	--	2000
32	Suncor WTG32	4000	413984	4773786	301.5	84	84.4	0	0.0	-1.2	0.0	153.8	0.0	0.0	0.0	0.0	--	4000
32	Suncor WTG32	8000	413984	4773786	301.5	66	84.4	0	0.0	-1.2	0.0	548.5	0.0	0.0	0.0	0.0	--	8000
82	Suncor WTG82	63	421271	4777618	309.5	85	82.4	0	0.0	-3.5	0.0	0.5	0.0	0.0	0.0	0.0	5	63
82	Suncor WTG82	125	421271	4777618	309.5	91	82.4	0	0.0	1.6	0.0	1.5	0.0	0.0	0.0	0.0	5	125
82	Suncor WTG82	250	421271	4777618	309.5	98	82.4	0	0.0	-0.1	0.0	3.9	0.0	0.0	0.0	0.0	11	250
82	Suncor WTG82	500	421271	4777618	309.5	98	82.4	0	0.0	-1.1	0.0	7.2	0.0	0.0	0.0	0.0	10	500
82	Suncor WTG82	1000	421271	4777618	309.5	99	82.4	0	0.0	-1.1	0.0	13.6	0.0	0.0	0.0	0.0	4	1000
82	Suncor WTG82	2000	421271	4777618	309.5	96	82.4	0	0.0	-1.1	0.0	36.0	0.0	0.0	0.0	0.0	--	2000
82	Suncor WTG82	4000	421271	4777618	309.5	84	82.4	0	0.0	-1.1	0.0	122.2	0.0	0.0	0.0	0.0	--	4000
82	Suncor WTG82	8000	421271	4777618	309.5	66	82.4	0	0.0	-1.1	0.0	435.7	0.0	0.0	0.0	0.0	--	8000
Transformer 1	Suncor Transformer 1	32	416857	4775052	210.9	61	76.3	0	0.0	-5.5	0.0	0.1	0.0	0.0	0.0	0.0	--	32
Transformer 1	Suncor Transformer 1	63	416857	4775052	210.9	80	76.3	0	0.0	-5.5	0.0	0.2	0.0	0.0	0.0	0.0	9	63
Transformer 1	Suncor Transformer 1	125	416857	4775052	210.9	92	76.3	0	0.0	3.6	0.0	0.8	0.0	0.0	0.0	0.0	12	125
Transformer 1	Suncor Transformer 1	250	416857	4775052	210.9	95	76.3	0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	16	250
Transformer 1	Suncor Transformer 1	500	416857	4775052	210.9	100	76.3	0	0.0	-1.7	0.0	3.5	0.0	0.0	0.0	0.0	22	500
Transformer 1	Suncor Transformer 1	1000	416857	4775052	210.9	97	76.3	0	0.0	-1.7	0.0	6.7	0.0	0.0	0.0	0.0	16	1000
Transformer 1	Suncor Transformer 1	2000	416857	4775052	210.9	93	76.3	0	0.0	-1.7	0.0	17.7	0.0	0.0	0.0	0.0	1	2000
Transformer 1	Suncor Transformer 1	4000	416857	4775052	210.9	88	76.3	0	0.0	-1.7	0.0	60.2	0.0	0.0	0.0	0.0	--	4000
Transformer 1	Suncor Transformer 1	8000	416857	4775052	210.9	79	76.3	0	0.0	-1.7	0.0	214.6	0.0	0.0	0.0	0.0	--	8000



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Where: Lr = Lx - Adiv + K0 + Dc - Agnd - Abar - Aatm - Afol - Ahous - Cmet + Refl



Src ID	Src Name	Band	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahous	Cmet	Refl	Lr	Band
WTG P1	Proof Line WTG 1, Vestas V90	63	416282	4777012	284.3	87	74.0	0	0.0	-3.0	0.0	0.2	0.0	0.0	0.0	0.0	16	63
WTG P1	Proof Line WTG 1, Vestas V90	125	416282	4777012	284.3	94	74.0	0	0.0	1.8	0.0	0.6	0.0	0.0	0.0	0.0	18	125
WTG P1	Proof Line WTG 1, Vestas V90	250	416282	4777012	284.3	98	74.0	0	0.0	0.1	0.0	1.5	0.0	0.0	0.0	0.0	22	250
WTG P1	Proof Line WTG 1, Vestas V90	500	416282	4777012	284.3	100	74.0	0	0.0	-0.9	0.0	2.7	0.0	0.0	0.0	0.0	24	500
WTG P1	Proof Line WTG 1, Vestas V90	1000	416282	4777012	284.3	100	74.0	0	0.0	-0.9	0.0	5.2	0.0	0.0	0.0	0.0	22	1000
WTG P1	Proof Line WTG 1, Vestas V90	2000	416282	4777012	284.3	97	74.0	0	0.0	-0.9	0.0	13.7	0.0	0.0	0.0	0.0	10	2000
WTG P1	Proof Line WTG 1, Vestas V90	4000	416282	4777012	284.3	92	74.0	0	0.0	-0.9	0.0	46.3	0.0	0.0	0.0	0.0	--	4000
WTG P1	Proof Line WTG 1, Vestas V90	8000	416282	4777012	284.3	83	74.0	0	0.0	-0.9	0.0	165.2	0.0	0.0	0.0	0.0	--	8000
WTG P2	Proof Line WTG 2, Vestas V82	63	416495	4777750	283.4	89	74.9	0	0.0	-3.0	0.0	0.2	0.0	0.0	0.0	0.0	17	63
WTG P2	Proof Line WTG 2, Vestas V82	125	416495	4777750	283.4	96	74.9	0	0.0	1.8	0.0	0.6	0.0	0.0	0.0	0.0	19	125
WTG P2	Proof Line WTG 2, Vestas V82	250	416495	4777750	283.4	101	74.9	0	0.0	0.1	0.0	1.6	0.0	0.0	0.0	0.0	24	250
WTG P2	Proof Line WTG 2, Vestas V82	500	416495	4777750	283.4	101	74.9	0	0.0	-0.9	0.0	3.0	0.0	0.0	0.0	0.0	24	500
WTG P2	Proof Line WTG 2, Vestas V82	1000	416495	4777750	283.4	102	74.9	0	0.0	-0.9	0.0	5.7	0.0	0.0	0.0	0.0	22	1000
WTG P2	Proof Line WTG 2, Vestas V82	2000	416495	4777750	283.4	99	74.9	0	0.0	-0.9	0.0	15.2	0.0	0.0	0.0	0.0	9	2000
WTG P2	Proof Line WTG 2, Vestas V82	4000	416495	4777750	283.4	97	74.9	0	0.0	-0.9	0.0	51.4	0.0	0.0	0.0	0.0	--	4000
WTG P2	Proof Line WTG 2, Vestas V82	8000	416495	4777750	283.4	87	74.9	0	0.0	-0.9	0.0	183.2	0.0	0.0	0.0	0.0	--	8000
WTG P3	Proof Line WTG 3, Vestas V82	63	416902	4778472	280.8	89	76.7	0	0.0	-3.0	0.0	0.2	0.0	0.0	0.0	0.0	15	63
WTG P3	Proof Line WTG 3, Vestas V82	125	416902	4778472	280.8	96	76.7	0	0.0	1.8	0.0	0.8	0.0	0.0	0.0	0.0	17	125
WTG P3	Proof Line WTG 3, Vestas V82	250	416902	4778472	280.8	101	76.7	0	0.0	0.1	0.0	2.0	0.0	0.0	0.0	0.0	22	250
WTG P3	Proof Line WTG 3, Vestas V82	500	416902	4778472	280.8	101	76.7	0	0.0	-0.9	0.0	3.7	0.0	0.0	0.0	0.0	21	500
WTG P3	Proof Line WTG 3, Vestas V82	1000	416902	4778472	280.8	102	76.7	0	0.0	-0.9	0.0	7.0	0.0	0.0	0.0	0.0	19	1000
WTG P3	Proof Line WTG 3, Vestas V82	2000	416902	4778472	280.8	99	76.7	0	0.0	-0.9	0.0	18.6	0.0	0.0	0.0	0.0	4	2000
WTG P3	Proof Line WTG 3, Vestas V82	4000	416902	4778472	280.8	97	76.7	0	0.0	-0.9	0.0	63.1	0.0	0.0	0.0	0.0	--	4000
WTG P3	Proof Line WTG 3, Vestas V82	8000	416902	4778472	280.8	87	76.7	0	0.0	-0.9	0.0	225.1	0.0	0.0	0.0	0.0	--	8000
WTG P4	Proof Line WTG 4, Vestas V82	63	417181	4778747	282.0	89	77.5	0	0.0	-3.0	0.0	0.3	0.0	0.0	0.0	0.0	14	63
WTG P4	Proof Line WTG 4, Vestas V82	125	417181	4778747	282.0	96	77.5	0	0.0	1.8	0.0	0.9	0.0	0.0	0.0	0.0	16	125
WTG P4	Proof Line WTG 4, Vestas V82	250	417181	4778747	282.0	101	77.5	0	0.0	0.1	0.0	2.2	0.0	0.0	0.0	0.0	21	250
WTG P4	Proof Line WTG 4, Vestas V82	500	417181	4778747	282.0	101	77.5	0	0.0	-0.9	0.0	4.1	0.0	0.0	0.0	0.0	20	500
WTG P4	Proof Line WTG 4, Vestas V82	1000	417181	4778747	282.0	102	77.5	0	0.0	-0.9	0.0	7.7	0.0	0.0	0.0	0.0	17	1000
WTG P4	Proof Line WTG 4, Vestas V82	2000	417181	4778747	282.0	99	77.5	0	0.0	-0.9	0.0	20.3	0.0	0.0	0.0	0.0	2	2000
WTG P4	Proof Line WTG 4, Vestas V82	4000	417181	4778747	282.0	97	77.5	0	0.0	-0.9	0.0	68.8	0.0	0.0	0.0	0.0	--	4000
WTG P4	Proof Line WTG 4, Vestas V82	8000	417181	4778747	282.0	87	77.5	0	0.0	-0.9	0.0	245.5	0.0	0.0	0.0	0.0	--	8000
WTG P5	Proof Line WTG 5, Vestas V90	63	416615	4776648	285.0	87	71.4	0	0.0	-3.0	0.0	0.1	0.0	0.0	0.0	0.0	19	63
WTG P5	Proof Line WTG 5, Vestas V90	125	416615	4776648	285.0	94	71.4	0	0.0	1.8	0.0	0.4	0.0	0.0	0.0	0.0	21	125
WTG P5	Proof Line WTG 5, Vestas V90	250	416615	4776648	285.0	98	71.4	0	0.0	0.1	0.0	1.1	0.0	0.0	0.0	0.0	25	250
WTG P5	Proof Line WTG 5, Vestas V90	500	416615	4776648	285.0	100	71.4	0	0.0	-0.9	0.0	2.0	0.0	0.0	0.0	0.0	28	500
WTG P5	Proof Line WTG 5, Vestas V90	1000	416615	4776648	285.0	100	71.4	0	0.0	-0.9	0.0	3.8	0.0	0.0	0.0	0.0	26	1000
WTG P5	Proof Line WTG 5, Vestas V90	2000	416615	4776648	285.0	97	71.4	0	0.0	-0.9	0.0	10.1	0.0	0.0	0.0	0.0	16	2000
WTG P5	Proof Line WTG 5, Vestas V90	4000	416615	4776648	285.0	92	71.4	0	0.0	-0.9	0.0	34.3	0.0	0.0	0.0	0.0	--	4000
WTG P5	Proof Line WTG 5, Vestas V90	8000	416615	4776648	285.0	83	71.4	0	0.0	-0.9	0.0	122.5	0.0	0.0	0.0	0.0	--	8000
WTG P6	Proof Line WTG 6, Vestas V82	63	416977	4777374	284.3	89	70.6	0	0.0	-3.0	0.0	0.1	0.0	0.0	0.0	0.0	21	63
WTG P6	Proof Line WTG 6, Vestas V82	125	416977	4777374	284.3	96	70.6	0	0.0	1.7	0.0	0.4	0.0	0.0	0.0	0.0	23	125
WTG P6	Proof Line WTG 6, Vestas V82	250	416977	4777374	284.3	101	70.6	0	0.0	0.1	0.0	1.0	0.0	0.0	0.0	0.0	29	250



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Where: Lr = Lx - Adiv + K0 + Dc - Agnd - Abar - Aatm - Afol - Ahous - Cmet + Refl



Src ID	Src Name	Band	X	Y	Z	Lx	Adiv	K0	Dc	Agnd	Abar	Aatm	Afol	Ahous	Cmet	Refl	Lr	Band
WTG P6	Proof Line WTG 6, Vestas V82	500	416977	4777374	284.3	101	70.6	0	0.0	-0.9	0.0	1.9	0.0	0.0	0.0	0.0	29	500
WTG P6	Proof Line WTG 6, Vestas V82	1000	416977	4777374	284.3	102	70.6	0	0.0	-0.9	0.0	3.5	0.0	0.0	0.0	0.0	28	1000
WTG P6	Proof Line WTG 6, Vestas V82	2000	416977	4777374	284.3	99	70.6	0	0.0	-0.9	0.0	9.3	0.0	0.0	0.0	0.0	19	2000
WTG P6	Proof Line WTG 6, Vestas V82	4000	416977	4777374	284.3	97	70.6	0	0.0	-0.9	0.0	31.4	0.0	0.0	0.0	0.0	--	4000
WTG P6	Proof Line WTG 6, Vestas V82	8000	416977	4777374	284.3	87	70.6	0	0.0	-0.9	0.0	112.2	0.0	0.0	0.0	0.0	--	8000
WTG R1	Ravenswood WTG1	63	420250	4780721	283.4	89	84.6	0	0.0	-4.4	0.0	0.6	0.0	0.0	0.0	0.0	8	63
WTG R1	Ravenswood WTG1	125	420250	4780721	283.4	96	84.6	0	0.0	1.4	0.0	2.0	0.0	0.0	0.0	0.0	8	125
WTG R1	Ravenswood WTG1	250	420250	4780721	283.4	101	84.6	0	0.0	-0.4	0.0	5.0	0.0	0.0	0.0	0.0	11	250
WTG R1	Ravenswood WTG1	500	420250	4780721	283.4	101	84.6	0	0.0	-1.3	0.0	9.2	0.0	0.0	0.0	0.0	8	500
WTG R1	Ravenswood WTG1	1000	420250	4780721	283.4	102	84.6	0	0.0	-1.3	0.0	17.5	0.0	0.0	0.0	0.0	1	1000
WTG R1	Ravenswood WTG1	2000	420250	4780721	283.4	99	84.6	0	0.0	-1.3	0.0	46.2	0.0	0.0	0.0	0.0	--	2000
WTG R1	Ravenswood WTG1	4000	420250	4780721	283.4	97	84.6	0	0.0	-1.3	0.0	156.7	0.0	0.0	0.0	0.0	--	4000
WTG R1	Ravenswood WTG1	8000	420250	4780721	283.4	87	84.6	0	0.0	-1.3	0.0	558.9	0.0	0.0	0.0	0.0	--	8000
WTG R2	Ravenswood WTG2	63	420389	4780308	285.0	89	84.1	0	0.0	-4.3	0.0	0.6	0.0	0.0	0.0	0.0	9	63
WTG R2	Ravenswood WTG2	125	420389	4780308	285.0	96	84.1	0	0.0	1.4	0.0	1.9	0.0	0.0	0.0	0.0	9	125
WTG R2	Ravenswood WTG2	250	420389	4780308	285.0	101	84.1	0	0.0	-0.3	0.0	4.7	0.0	0.0	0.0	0.0	12	250
WTG R2	Ravenswood WTG2	500	420389	4780308	285.0	101	84.1	0	0.0	-1.3	0.0	8.7	0.0	0.0	0.0	0.0	9	500
WTG R2	Ravenswood WTG2	1000	420389	4780308	285.0	102	84.1	0	0.0	-1.3	0.0	16.5	0.0	0.0	0.0	0.0	2	1000
WTG R2	Ravenswood WTG2	2000	420389	4780308	285.0	99	84.1	0	0.0	-1.3	0.0	43.7	0.0	0.0	0.0	0.0	--	2000
WTG R2	Ravenswood WTG2	4000	420389	4780308	285.0	97	84.1	0	0.0	-1.3	0.0	148.2	0.0	0.0	0.0	0.0	--	4000
WTG R2	Ravenswood WTG2	8000	420389	4780308	285.0	87	84.1	0	0.0	-1.3	0.0	528.6	0.0	0.0	0.0	0.0	--	8000



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Where:  $Lr = Lx - Adiv + K0 + Dc - Agnd - Abar - Aatm - Afol - Ahous - Cmet + Refl$



# APPENDIX G: WIND SHEAR COEFFICIENT SUMMARY



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# Technical Memorandum

**To:** Daniel Visser  
Suncor Energy

**From:** Batoul Maklad and Andre Shoucri  
GENIVAR Inc.

**Date:** August 27, 2012

**Subject:** Cedar Point Shear Calculations.

## Purpose:

The purpose of this memorandum is to calculate the shear profile exponent for the Cedar Point Wind Power Project meteorological tower 151, using a binned shear method. Specifically, the calculated shear exponent will be used to inform a sound calculation for a proposed turbine layout under the Ontario Ministry of Environment (MOE) noise guidelines. Generally, turbine noise emission varies with wind speed. The IEC 61400-11 standard stipulates that turbine noise emissions should be specified for reference wind speed conditions. The reference conditions are the wind speed at a height of 10 meters assuming a logarithmic shear profile with a roughness length on 0.05 meters. If the shear conditions at a project vary from these reference conditions, then the manufacturer specified sound emission may need to be adjusted for any sound modeling.

## Shear Calculation Methodology:

GENIVAR used two levels of measured wind data to calculate the shear profile for Site 151. Shear exponents were binned by season, and time of day; these bins were then used to extrapolate wind speeds to hub height. The estimate of wind speeds at a higher height was found using the equation 1:

$$V_u = V_l * \left( \frac{H_u}{H_l} \right)^\alpha \quad (1)$$

Where:

$V_u$  = Estimated upper height wind velocity

$V_l$  = Measured wind speed at the lower height

$H_l$  = Lower height where  $V_l$  is measured

$H_u$  = Upper height where  $V_u$  is defined (typically turbine hub height)

$\alpha$  = Wind shear coefficient

The wind shear coefficient,  $\alpha$ , is calculated based on the local measured wind speed at the top and middle heights. It is defined by:

$$\alpha = \frac{\ln\left(\frac{V_u}{V_l}\right)}{\ln\left(\frac{H_u}{H_l}\right)} \quad (2)$$

The average shear exponents were calculated for a set of 24 time-of-day bins and 12 season bins. These binned shear values were calculated using the measured wind speeds at two different heights, as shown in equation 2. The site is equipped with one propeller style anemometer (RM Young 05103-5 model) at the 77 m, 60 m, 40 m, and 10 m monitoring heights. The top level, 82 m monitoring height is a cup-style anemometer (Vector A100L2 model). Due to their different distance constant and response characteristic, these anemometer models might have wind speed



measurement bias. Consequently, using the top-level cup anemometer and a lower-level propeller-style anemometer could bias the shear exponent and the extrapolated wind speed calculation. Accordingly, the shear profile for this measurement site was calculated based on two different heights of the same sensor type – that is, a combination of the 77 m, 60 m, 40 m, and 10 m propeller-style anemometers.

**Results:**

Table 1 summarizes the shear exponent calculated over every combination of the 77 m, 60 m, 40 m, and 10 m propeller-style anemometers. Note that the average shear profile exponent varies with respect the wind speed measurement heights.

**Table 1: Shear Exponent Calculated Over Various Measurement Heights**

Site	Measurement Heights (m)	Effective Shear Exponent	Average Applied Shear Exponent	Equivalent Roughness Length for Logarithmic Profile (m)
151	40 - 10	0.18	0.18	0.25
	60 - 10	0.19	0.19	0.25
	60 - 40	0.25	0.25	0.27
	77 - 10	0.21	0.21	0.26
	77 - 40	0.26	0.26	0.27
	77 - 60	0.29	0.28	0.28

For Suncor’s purposes, the shear calculated between the 77 m and 10 m RM Young anemometers was of particular interest. The average shear profile exponent between these heights would best inform future sound calculation because it relates the IEC 61400-11 reference height (10 m) and a height that is close to many turbine hub heights (77 m)<sup>1</sup>. From Table 1, the average applied shear exponent value between the 10 m and 77 m heights is 0.21; which corresponds to a logarithmic profile roughness length of 0.26 m. This roughness length is higher than the reference conditions specified in the IEC 61400-11 standard. Adjusting for this difference in roughness length would serve to decrease the reference-height wind speed for a fixed turbine sound emission. Furthermore, Table 2 shows more detailed description of the shear profile exponent by time-of-day and month-of-year. Note that this table shows that the calculated shear exponents over summer night-times (July to September, 11PM to 7AM) are significantly higher than those observed at other times throughout the year.

<sup>1</sup> Note that wind speeds measured at 10 m are influenced by ground effects therefore using these wind speeds for shear calculation may not represent the shear characteristic for the swept area of the turbine rotor. Furthermore, the 10 m measurement height was added later in the measurement campaign and has a significantly shorter period of record than those of the higher heights. However, in efforts to ensure the difference in available data did not bias the results, the shear exponent was also calculated over the truncated period where data from all the measurement heights is available. This calculation did not reveal any significant differences in the shear over both periods



**Table 2: Shear Exponent for 24 Time-of-Day Bins and 12 Season Bins between 77 and 10 m Wind Speed Data**

		Month											
		1	2	3	4	5	6	7	8	9	10	11	12
Hour	1	0.21	0.21	0.25	0.25	0.28	0.28	0.32	0.34	0.34	0.31	0.23	0.18
	2	0.21	0.21	0.26	0.26	0.27	0.28	0.33	0.33	0.34	0.31	0.23	0.18
	3	0.21	0.21	0.25	0.26	0.31	0.28	0.32	0.33	0.33	0.31	0.23	0.18
	4	0.20	0.21	0.24	0.25	0.28	0.26	0.32	0.33	0.35	0.30	0.24	0.18
	5	0.21	0.20	0.24	0.24	0.27	0.26	0.31	0.33	0.35	0.29	0.24	0.18
	6	0.20	0.20	0.25	0.23	0.25	0.24	0.29	0.32	0.34	0.30	0.24	0.19
	7	0.20	0.20	0.24	0.21	0.20	0.19	0.24	0.30	0.32	0.29	0.24	0.19
	8	0.20	0.18	0.21	0.16	0.14	0.14	0.17	0.24	0.26	0.26	0.23	0.19
	9	0.19	0.16	0.15	0.11	0.10	0.12	0.13	0.18	0.18	0.20	0.20	0.18
	10	0.17	0.15	0.11	0.09	0.09	0.11	0.12	0.16	0.15	0.17	0.15	0.16
	11	0.15	0.12	0.10	0.08	0.08	0.09	0.11	0.15	0.14	0.16	0.12	0.14
	12	0.13	0.10	0.09	0.07	0.08	0.09	0.11	0.14	0.12	0.15	0.12	0.13
	13	0.12	0.10	0.09	0.07	0.08	0.08	0.10	0.14	0.11	0.15	0.12	0.13
	14	0.12	0.10	0.09	0.08	0.10	0.08	0.12	0.14	0.11	0.15	0.13	0.14
	15	0.13	0.11	0.10	0.09	0.10	0.09	0.12	0.15	0.12	0.17	0.14	0.14
	16	0.14	0.12	0.12	0.10	0.11	0.10	0.14	0.16	0.14	0.17	0.15	0.15
	17	0.16	0.16	0.14	0.12	0.11	0.11	0.15	0.19	0.17	0.21	0.19	0.17
	18	0.18	0.19	0.17	0.15	0.13	0.13	0.18	0.22	0.23	0.25	0.22	0.17
	19	0.18	0.20	0.20	0.20	0.18	0.17	0.22	0.26	0.30	0.27	0.23	0.17
	20	0.19	0.21	0.23	0.23	0.25	0.24	0.28	0.31	0.33	0.28	0.23	0.17
	21	0.19	0.21	0.24	0.23	0.26	0.25	0.32	0.33	0.34	0.28	0.24	0.18
	22	0.20	0.21	0.25	0.23	0.27	0.26	0.33	0.34	0.32	0.29	0.24	0.18
	23	0.21	0.22	0.25	0.24	0.27	0.27	0.33	0.34	0.34	0.29	0.24	0.17
	24	0.21	0.21	0.26	0.25	0.28	0.27	0.33	0.33	0.34	0.30	0.23	0.18

Average Wind Shear for Summer Nighttime (July - September, 11pm to 7am) = 0.33



## Sample Calculation for Wind Shear Adjustment, Proof Line and Ravenswood Suncor Cedar Point Wind Project

The sample wind shear calculation converts the wind speed provided for the Proof Line/Ravenswood project at 10m height and a wind shear of 0.2255, to an 80m height wind speed and then converts the 80m height wind speed to a 10m height wind speed for the Suncor Cedar Point project utilizing a summer average nighttime wind shear of 0.33.

$$\begin{aligned} \text{Proof Line Wind Shear}^1 &= 0.2255 \\ \text{Suncor Wind Shear}^2 &= 0.33 \end{aligned}$$

$$\begin{aligned} H_1 &= 10 \\ H_2 &= 80 \end{aligned}$$

### Adjustment for Proof Line (10m to 80m)

PWL (dBA)	10m WS	80m WS
102.5	6.0	9.6
104.2	7.0	11.2
107.3	8.0	12.8
109.0	9.0	14.4
109.8	10.0	16.0
108.6	11.0	17.6
107.4	12.0	19.2

### Adjustment for Suncor (80m to 10m)

80m WS	10m WS	Criteria (dBA)
9.6	4.8	40
11.2	5.6	40
12.8	6.4	40
14.4	7.2	43
16.0	8.0	45
17.6	8.9	49
19.2	9.7	51

**Sample Calculation** (conversion from 10m height to 80m height):

$$\begin{aligned} V_1 &= 8 \text{ m/s} \\ \alpha &= 0.2255 \\ H_1 &= 10\text{m} \\ H_2 &= 80\text{m} \end{aligned} \quad \begin{aligned} V_2 &= V_1(H_2/H_1)^\alpha \\ V_2 &= 12.8\text{m/s} \end{aligned}$$

(Conversion from 80m height to 10m height):

$$\begin{aligned} V_2 &= 12.8\text{m/s} \\ \alpha &= 0.33 \\ H_1 &= 10\text{m} \\ H_2 &= 80\text{m} \end{aligned} \quad \begin{aligned} V_1 &= V_2(H_1/H_2)^\alpha \\ V_1 &= 6.4\text{m/s} \end{aligned}$$

The following table presents the adjusted sound power levels for the Vestas V82 wind turbine generators.

PWL (dBA)	10m WS	Criteria (dBA)
107.3	6.0	40
109.0	7.0	43
109.8	8.0	45
108.6	9.0	49
107.4	10.0	51

<sup>1</sup> - M.K. Ince and Associates Ltd., *Proof Line Wind Farm Environmental Noise Impact Report*, November 10, 2006.

<sup>2</sup> - GENIVAR Technical Memorandum, *Cedar Point Shear Calculations*, August 27, 2012.