

**APPENDIX F**  
**NEIGHBOURING SOLAR PROJECT NOISE REPORTS**



Axio Power Canada Inc./  
SunEdison Canada

Noise Study Report

For

Kingston Gardiner Hwy 2 South  
Solar Energy Project

H335467  
Rev. 0  
January 26, 2012

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Project Report

January 26, 2012

# Axio Power Canada Inc./SunEdison Canada Kingston Gardiner Hwy 2 South Solar Energy Project

## Noise Study Report

### Table of Contents

#### Report Disclaimer

#### Executive Summary

<b>1. Introduction</b> .....	<b>1</b>
1.1 Project Description .....	1
1.2 Renewable Energy Approval Legislative Requirements .....	1
<b>2. Facility Description</b> .....	<b>2</b>
2.1 Project Location .....	2
2.2 Acoustical Environment .....	2
2.3 Life of Project.....	2
2.4 Operating Hours .....	4
2.5 Approach to the Study.....	4
<b>3. Noise Source</b> .....	<b>5</b>
3.1 Substation Transformer.....	5
3.2 Inverter Units .....	5
3.3 Noise Summary Table .....	6
3.4 Adjacent Solar Projects.....	6
<b>4. Point of Reception</b> .....	<b>7</b>
<b>5. Mitigation Measures</b> .....	<b>8</b>
<b>6. Impact Assessment</b> .....	<b>9</b>
6.1 Compliance With Performance Limits .....	9
<b>7. Conclusions and Recommendations</b> .....	<b>14</b>
<b>8. References</b> .....	<b>15</b>

**Appendix A** Land Use Zoning Designation Plan, and Area Location Plan

**Appendix B** Noise Sources

**Appendix C** Noise Map from CADNA-A

**Appendix D** CADNA-A Sample Calculations



## List of Tables

<b>Number</b>	<b>Title</b>
Table 2.1	General Project Description
Table 3.1	Noise Source Summary (Day and Night Time)
Table 4.1	Point of Reception Noise Impact (Day and Night Time)
Table 6.1	Performance Limits (One-Hour $L_{eq}$ ) by Time of Day for Class 3 Areas
Table 6.2	Calculated Sound Pressure Levels at POR (shaded rows correspond to representative POR)
Table 6.3	Parcels Partially Affected by the Project's noise emission

## List of Figures

<b>Number</b>	<b>Title</b>
Figure 2.1	Site Layout Plan
Figure 2.2	CADNA-A Configurations

## Executive Summary

This report presents the results of the noise assessment study required for Solar Facilities under Ontario Regulation 359/09 and 521/10, as part of the Renewable Energy Approval (REA) Process.

Axio Power Canada Inc./SunEdison Canada (the “Client”) is proposing to develop a 10-Megawatt (MW) solar photovoltaic (PV) project Kingston Gardiner Hwy 2 South Solar Energy Project (the “Project”). The Project is located on approximately 34 hectares of land on Part of Lot 40, Concession 3, Loyalist Township, County of Lennox and Addington.

This Noise Assessment Report has been prepared based on the document entitled “Basic Comprehensive Certificates of Approval (Air) – User Guide” by the Ontario Ministry of the Environment (MOE, 2004). The sound pressure levels at the points of reception (POR) have been estimated using ISO 9613-2, implemented in the CADNA-A computer code. The performance limits used for verification of compliance correspond to the values for rural areas of 40 dBA. The results presented in this report are based on the best available information at this time. It is the intention that, in the detailed engineering phase of the project, certified noise data based on final plans and designs will confirm the conclusions of this noise study.

The results obtained in this study show that the sound pressure levels at POR will not exceed MOE requirements for rural areas of 40 dBA.

## 1. Introduction

### 1.1 Project Description

Axio Power Canada Inc./SunEdison Canada (the “Client”) is proposing to develop a 10-Megawatt (MW) solar photovoltaic (PV) project titled Kingston Gardiner Hwy 2 South Solar Energy Project (the “Project”). The Project Location<sup>1</sup> is situated on approximately 34 hectares (ha) of land on Part of Lot 40, Concession 3, Loyalist Township (lower tier municipality), County of Lennox and Addington (upper tier municipality).

The Project is proposed to be constructed on privately owned land that is currently vacant and covered by woodland and seasonal vegetation. The Project is located immediately south of Highway 2 (Regional Road 2) approximately 3.6-km east of the village of Odessa and 5-km west of the City of Kingston.

The proposed Project is a renewable energy generation facility which will use solar photovoltaic technology to generate electricity. Electricity generated by solar photovoltaic panels will be converted from Direct Current (DC) to Alternating Current (AC) by inverter units which will also step-up the voltage to 27.6 kV. A main transformer, located in the substation, will step up the voltage from the inverter units to 44 kV prior to being sent to the existing local distribution line. In order to meet the Ontario Power Authority (OPA)’s Feed-In-Tariff (FIT) Program requirements, a specific percentage of equipment will be manufactured in Ontario.

The construction of the Project will begin once the Renewable Energy Approval (REA) has been obtained and a power purchase agreement is finalized with the OPA. The construction period is estimated to be approximately 6 months. Operationally, the anticipated lifespan of the Project will be 30 years.

### 1.2 Renewable Energy Approval Legislative Requirements

Ontario Regulation 359/09 and 521/10, made under the Environmental Protection Act identify the Renewable Energy Approval (REA) requirements for green energy projects in Ontario. As per Section 4 of the Ontario Regulation 359/09 and its amendment (Ontario Regulation 521/10), ground mounted solar facilities with a name plate capacity greater than 12 kilowatts (kW) are classified as a Class 3 solar facility, and therefore, require an REA.

Section 13 of the Ontario Regulation 359/09 requires proponents of Class 3 solar facilities to complete a Noise Study Report in accordance with Appendix A of the publication “Basic Comprehensive Certificates of Approval (Air) – User Guide, 2004” by the Ministry of the Environment (MOE, 2004).

The Noise Study Report is to include a general description of the facility, noise sources and points of reception (POR), assessment of compliance, as well as all the supporting information relevant to the Project. A draft of the Noise Study Report must be made available to the public, the local municipality and identified Aboriginal communities, at least 60 days prior to the final public consultation meeting in accordance with Ontario Regulation 359/09 and 521/10.

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<sup>1</sup> “Project Location” in the context of this study is an area occupied by the Project infrastructure.

## 2. Facility Description

The Project will utilize photovoltaic (PV) panels installed on fixed racking structures mounted on the ground. The PV panels generate DC electricity which will be converted to AC electricity by inverter units. The Project layout is based on 10 inverter units (i.e., building enclosures), each one containing two inverters and one medium-voltage transformer, and one 10-MVA/44-kV substation transformer. The 27.6-kV power, collected from the inverter units, will be stepped-up to 44 kV by the substation transformer prior to being sent to the existing local distribution line.

Since the panels will be ground-mounted and the total nameplate capacity is over 12 kW, the Project is considered to be a Class 3 Solar Facility, according to the classification presented in Ontario Regulation 521/10.

**Table 2.1 General Project Description**

Project Description	Ground-mounted Solar PV, Class 3
System Nameplate Capacity	10 MW AC
Local Distribution Company	Hydro One Networks Inc.

### 2.1 Project Location

The Project Location consists of undeveloped land totalling approximately 34 hectares, located 3.6 km east of the village of Odessa and 5 km west of the City of Kingston. Figure 2.1 shows the site layout plan while the zoning designation plan (Figure A.1) and area location plan (Figure A.2) drawings are included in Appendix A. 124 points of reception are located within 1.2-km from the Project Site<sup>2</sup> boundary.

### 2.2 Acoustical Environment

The Project Location is mainly surrounded by farmland, with some wooded areas to the north and south sides. The spot sound measurements taken around the site showed sound pressure levels somewhat above those typical of rural areas (> 40 dBA). Traffic noise is perceived from Highway 2 to the north.

No industrial facilities or airports are found within 5-km from the site.

### 2.3 Life of Project

The expected life of the Project is 30 years. At that time (or earlier if the 20 year power purchase agreement is not extended), the Project will be decommissioned or refurbished depending on market conditions and/or technological changes.

<sup>2</sup> "Project Site" in the context of this study is the complete area designated for the Project but not necessary occupied with the project infrastructure. Project Location is always contained within Project Site.





- LEGEND**
- Existing Features**
- # Noise Receptor
  - # Representative Noise Receptor
  - Road
  - Topographic Contour (5 m interval)
  - Watercourse
  - Transmission Line
  - ▭ Parcel
- Proposed Project Components**
- ▲ Communication Tower
  - ▭ Project Site
  - ▭ Project Location
  - +<sup>Sub#</sup> Substation Transformer
  - +<sup>Inv#</sup> Inverter Unit
  - ▭ Laydown Area
  - Panel Layout
  - Access Road
  - Transmission Line
  - ⊕ Substation
  - ⊙ Connection Point



Notes:  
 1. OBM and NRVIS data downloaded from LIO, with permission.  
 2. Spatial Referencing UTM NAD 83.  
 3. Air photos from CRCA, flown Spring 2008, scale 1:2000.

Figure 2.1  
 Axio Power Canada Inc./SunEdison Canada  
**Kingston Gardiner Hwy 2 South**  
 Site Layout Plan **HATCH™**



## 2.4 Operating Hours

Solar PV facilities produce electricity during the daytime hours, when the sun’s rays are collected by the panels. After sunset, the facility will not receive solar radiation to generate any electricity. Under these conditions the inverters will not produce any noise and the transformers will be energized, but not in operation (no fans in operation).

## 2.5 Approach to the Study

The sound pressure levels at the POR were predicted using procedures from ISO 9613-2, which is a widely used and generally accepted standard for the evaluation of noise impact in environmental assessments. The sound power level for the inverter units was provided by the manufacturer while the sound power level for the substation transformer was estimated. The software package CADNA-A, which implements ISO-9613-2, was used to predict the noise levels at the closest POR. This numerical modeling software is able to simulate sound sources as well as sound mitigation measures taking into account atmospheric and ground attenuation. Some of the CADNA-A configurations used in the modeling are shown in Figure 2.2. The height contours for the site were taken from the Ontario Base Maps (OBM).

For modeling purposes, the vegetation that blocks some of the POR from the sources has not been incorporated.

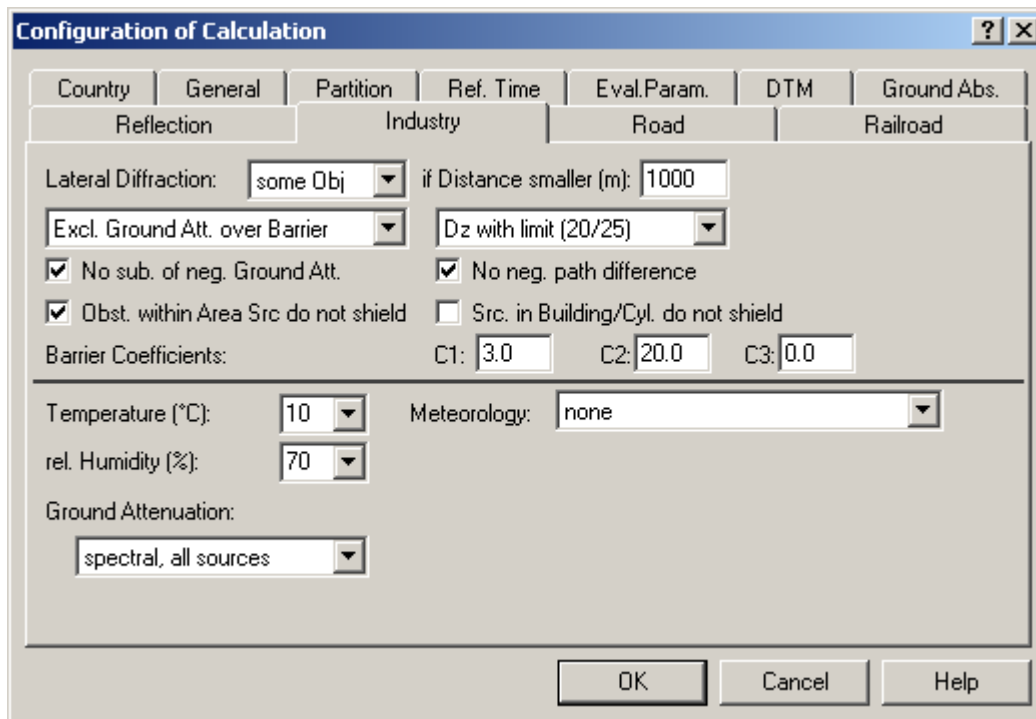


Figure 2.2 CADNA-A Configurations

### 3. Noise Source

The main sources of noise from the Project will be 10 inverter units, each one containing two inverters and one medium-voltage transformer, and a substation containing the main step up transformer. The Client provided a layout of the solar PV facility (see Figure 2.1). The coordinates of each noise source are presented in Table B.1 of Appendix B.

All noise sources were modeled as non-directional point sources.

Switchgear and a small step-down transformer used for lighting, located at the substation, do not emit any significant noise and consequently have not been considered as sources of noise.

For the purpose of this study it is assumed that all inverters and transformers will be operating 24 hours at full capacity.

#### 3.1 Substation Transformer

A step-up transformer that will step-up the 27.6-kV power to the 44 kV, required by the local distribution company, will be located in the substation. The 27-kV/44-kV/10-MVA transformer will be supplied by Magna Electric Corporation (Figure B.3). The sound power levels resulting from the operation of the transformer were using data from NEMA TRI – 1993 (2000) and 35-m<sup>2</sup> transformer surface area. This standard provides maximum sound level values for transformers, and manufacturers routinely meet this specification. Hence, the results based on NEMA may slightly overestimate the impact on POR since the actual transformer is expected to be quieter.

The NEMA levels were then converted into frequency spectra using empirical correlations for transformer noise (Crocker, 2007). This calculation is available in Figure B.1 of Appendix B.

Power transformers are considered by the MOE to be tonal noise sources. A 5-dB penalty was added to the sound power spectrum, as recommended by Publication NPC-104, “Sound Level Adjustments” for tonality. Table B.2 in Appendix B shows the frequency spectrum used to model the substation transformer. Figure B.3 presents dimensions for this transformer that are expected to be similar to the installed dimensions.

#### 3.2 Inverter Units

The Client will use ten SMA Sunny Central 1000MV (SC1000MV) inverter units in the Project. Each SC1000MV inverter unit comprises of two inverters and one medium voltage transformer contained in an e-house or enclosure (see Appendix B). The main sources of noise are the cooling/ventilation fans, the electrical components of the inverters and the medium-voltage transformer. It is assumed that the current configuration of the SC1000MV unit, as specified in Appendix B, will be modified, where required according to the CADNA-A model, to have the following features: 1) all ventilation openings will be equipped with acoustical louvers (silencers); 2) all external walls will be soundproof (i.e., sound emissions through the walls will be significantly lower than the sound emissions through the louvers).

The installed capacity of each inverter unit is 1 MW. SMA provided third-octave noise data for the SC1000MV unit, which takes into account combined noise emissions from the two inverters and transformer (see Appendix B). The provided third octave spectrum was converted to a full octave spectrum for use with CADNA-A model (calculations are available in Figure B.2 of Appendix B). A

5-dBA penalty was added to the frequency spectrum, as stipulated in Publication NPC-104, “Sound Level Adjustments,” to allow for tonality. The frequency spectra used for SC1000MV units is shown in Table B.2, Appendix B.

Although for the modeling purposes it was assumed that the facility will operate 24 hours at full capacity, in reality at night the facility will be idle. Under these conditions the inverters do not produce noise. The transformers (at the substation and clusters) are energized and make some magnetostrictive noise at a reduced level, but no cooling fans are in operation.

### 3.3 Noise Summary Table

A summary of the sound sources described above, including sound level, characteristics and proposed noise control measures, is presented in Table 3.1.

**Table 3.1 Noise Source Summary (Day and Night Time)**

Source ID	Description	Total Sound Power Level (dBA)	Source Location	Sound Characteristics	Noise Control Measures
Sub	27-kV/44-kV/10-MVA Substation transformer	90.8	O	S-T	U
Inv1	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv2	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv3	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv4	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv5	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv6	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv7	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv8	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv9	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S
Inv10	Sunny Central 1000MV inverter unit	102.2	O	S-T	E-S

**Notes:**

1. □ A 5-dBA penalty is included in this table.
2. □ Location: Inside building (I), Outside building (O).
3. □ Sound Characteristics: Steady (S), Tonal (T), Impulsive (I), Quasi-Steady Impulsive (QSI).
4. □ Noise Control: Silencer (S), Acoustic lining (A), Barrier (B), Lagging (L), Enclosure (E), Other (O), Uncontrolled (U).

### 3.4 Adjacent Solar Projects

To identify the adjacent solar projects Hatch’s internal database of solar projects and MOE records available in [http://www.ene.gov.on.ca/environment/en/subject/renewable\\_energy/projects/index.htm](http://www.ene.gov.on.ca/environment/en/subject/renewable_energy/projects/index.htm) were searched (Jan 16, 2011).

There are no POR that are within 1 km of equipment in the Project and any adjacent project. As a result, there are no adjacent projects included in this study.



## 4. Point of Reception

The POR used in this study were initially identified from the OBM and high resolution aerial photography within 1.2-km distance from the Project Site boundary. Following this, the potential noise receptors located closest to the Project Location were then visually verified during a site visit held in September 2010. Based on this, a number of additional receptors (residential buildings) that were observed at the time of the inspection were added to the model.

The total number of POR considered in this study, within a 1.2-km distance from the Project Site boundary, is 124 (see Figure A.1 and Figure A.2 in Appendix A). Three of these noise receptors, identified in Table 4.1, were chosen as representative receptors for evaluating the noise contribution from each individual source (i.e., the substation and 10 inverters). These three receptors were chosen in order to represent sound pressure level contributions on different areas around the Project Location. The complete set of results for all 124 noise receptors is provided in Table 6.2 with corresponding noise maps from CADNA-A included in Appendix C.

For this study, the elevation above ground used for the POR is 4.5 m. Also, noise compliance was verified within 30-m distance from any given POR located at 1.5 m above the ground level.

**Table 4.1 Point of Reception Noise Impact (Day and Night Time)**

Source ID	POR 1		POR 7		POR 16	
	Distance (m)	Leq Sound Level (dBA)	Distance (m)	Leq Sound Level (dBA)	Distance (m)	Leq Sound Level (dBA)
Sub	156	35.6	161	35.4	778	20.6
Inv1	264	27.3	202	29.9	581	19.8
Inv2	126	34.7	271	27.0	693	18.1
Inv3	297	26.2	347	24.7	527	20.8
Inv4	219	29.1	407	23.2	658	18.6
Inv5	386	23.7	491	21.4	508	21.1
Inv6	348	24.7	547	20.4	654	18.7
Inv7	502	21.2	635	19.0	531	20.7
Inv8	487	21.5	689	18.2	682	18.3
Inv9	629	19.1	779	17.0	590	19.7
Inv10	628	19.1	833	16.4	737	17.5

## 5. Mitigation Measures

Mitigation for operation of the solar facility has been modeled and shown to be feasible in the form of soundproof (i.e., sound emissions through the walls will be significantly lower than the sound emissions through the louvers) enclosures with acoustical louvers for all inverter units. The noise reduction and sound transmission characteristics of the acoustical louvers considered in this study are presented in Table B.3 of Appendix B. Technical specifications of the proposed louvers are included in Appendix B as well.

## 6. Impact Assessment

The purpose of the acoustic assessment report is to demonstrate that the facility is in compliance with the noise performance limits. The Project will be located in a Class 3 Area, based on the classification defined in Publication NPC-232 by the MOE. Class 3 area means a rural area with an acoustical environment that is dominated by natural sounds with little or no traffic noise.

Table 6.1 shows the performance limits set by the MOE for Class 3 Areas, according to Publication NPC-232.

**Table 6.1 Performance Limits (One-Hour  $L_{eq}$ ) by Time of Day for Class 3 Areas**

Time of Day	One Hour $L_{eq}$ (dBA) Class 3 Area
07:00 to 19:00	45.0
19:00 to 23:00	40.0
23:00 to 07:00	40.0

The solar facility will be operating during the daylight hours, that is, between 07:00 and 19:00 during most days of the year. However, in the summer months the sun may shine until past 19:00, or before 07:00. As such, during the summer the facility will be operating at the time when the applicable performance limit changes from 45 dBA to 40 dBA. Also, the transformers remain energized at night. In order to account for this the study assumes that the facility will be operating 24 hours and compares the impact from the facility with the 40-dBA limit. In reality, the cooling fans will not be in operation at night.

For this study, the overall ground attenuation coefficient was estimated to be 0.7. Appendix D includes a list of all the parameters used in the CADNA-A model to predict the sound pressure levels at the POR.

The modelling does not consider the effect of the solar panels on the predicted sound pressure levels at the points of reception. The solar panels may act as barriers to further reduce noise at the POR.

### 6.1 Compliance With Performance Limits

Table 6.2 presents the predicted sound pressure levels for the POR located within 1.2 km from the Project Site. Sound pressure contours at 4.5-m and 1.5-m are available in Figure C.1 and Figure C.2. Appendix D includes a detailed calculation log of the representative POR with the highest sound pressure level.

Effect of the noise emissions at the POR was also assessed by intersecting the 40-dBA sound pressure contours calculated at 1.5 m above ground with 30-m radius circles placed around the POR (Figure C.2). The results show that none of the 30-m radius zones are affected by the noise emissions.

**Table 6.2 Calculated Sound Pressure Levels at POR (shaded rows correspond to representative POR)  
Existing = Existing dwelling**

ID	Description	Total Sound Pressure (dBA)	Performance Limit (dBA)	Height (m)	UTM Coordinates NAD83 Zone18			Min dist. to source (m)
					X (m)	Y (m)	Z (m)	
1	Existing	39.7	40.0	4.5	366773	4903320	134.5	126
2	Existing	36.6	40.0	4.5	366859	4903323	134.5	201
3	Existing	35.3	40.0	4.5	366876	4903397	134.5	242
4	Existing	37.9	40.0	4.5	366782	4903432	134.5	153
5	Existing	33.4	40.0	4.5	367019	4903279	134.4	335
6	Existing	33.9	40.0	4.5	366950	4903384	134.5	309
7	Existing	37.7	40.0	4.5	366476	4903421	134.5	161
8	Existing	33.4	40.0	4.5	366973	4903383	134.5	329
9	Existing	32.3	40.0	4.5	367088	4903275	134.3	394
10	Existing	36.3	40.0	4.5	366439	4903427	134.5	198
11	Existing	31.6	40.0	4.5	367172	4903163	133.1	429
12	Existing	34.8	40.0	4.5	366391	4903443	134.5	248
13	Existing	31.5	40.0	4.5	367092	4903373	134.5	436
14	Existing	35.3	40.0	4.5	366449	4903496	134.5	212
15	Existing	30.2	40.0	4.5	367240	4903233	133.5	521
16	Existing	30.0	40.0	4.5	366166	4902770	129.5	508
17	Existing	29.8	40.0	4.5	366157	4902750	129.5	524
18	Existing	29.3	40.0	4.5	366180	4902639	128.5	547
19	Existing	29.1	40.0	4.5	366041	4902939	130.1	563
20	Existing	29.1	40.0	4.5	366034	4902964	130.2	557
21	Existing	29.1	40.0	4.5	366029	4903026	130.7	536
22	Existing	29.0	40.0	4.5	366017	4903032	130.7	545
23	Existing	28.6	40.0	4.5	366018	4902893	129.6	599
24	Existing	28.8	40.0	4.5	365998	4903069	130.9	551
25	Existing	28.7	40.0	4.5	365990	4903082	130.9	555
26	Existing	28.3	40.0	4.5	366304	4902384	126.6	542
27	Existing	28.4	40.0	4.5	366372	4902339	126.3	518
28	Existing	28.2	40.0	4.5	365968	4902982	130.1	609
29	Existing	27.9	40.0	4.5	365963	4902878	129.5	656
30	Existing	28.0	40.0	4.5	365942	4903033	130.4	615
31	Existing	26.9	40.0	4.5	367524	4903182	129.5	761
32	Existing	28.0	40.0	4.5	366039	4903555	134.5	588
33	Existing	27.1	40.0	4.5	365957	4903545	134.1	653
34	Existing	26.6	40.0	4.5	365864	4903408	132.8	687
35	Existing	26.0	40.0	4.5	365769	4903004	129.5	790
36	Existing	25.9	40.0	4.5	365767	4902982	129.5	798
37	Existing	26.4	40.0	4.5	365856	4903450	133.0	707
38	Existing	26.2	40.0	4.5	365899	4903590	134.2	725
39	Existing	25.4	40.0	4.5	366132	4902195	124.5	793
40	Existing	25.8	40.0	4.5	365786	4903405	132.5	762

ID	Description	Total Sound Pressure (dBA)	Performance Limit (dBA)	Height (m)	UTM Coordinates NAD83 Zone18			Min dist. to source (m)
					X (m)	Y (m)	Z (m)	
41	Existing	25.2	40.0	4.5	366115	4902187	124.3	812
42	Existing	26.0	40.0	4.5	365916	4903656	134.5	747
43	Existing	25.6	40.0	4.5	365772	4903432	132.6	782
44	Existing	25.1	40.0	4.5	365675	4903041	129.5	871
45	Existing	24.7	40.0	4.5	366062	4902160	123.6	871
46	Existing	24.7	40.0	4.5	365642	4903198	130.4	885
47	Existing	24.2	40.0	4.5	365751	4902462	124.9	1011
48	Existing	24.8	40.0	4.5	365762	4903627	134.0	863
49	Existing	24.6	40.0	4.5	365686	4903496	132.8	883
50	Existing	23.4	40.0	4.5	367854	4903074	124.5	1023
51	Existing	24.3	40.0	4.5	365602	4903245	130.7	924
52	Existing	24.0	40.0	4.5	365980	4902130	122.8	954
53	Existing	24.5	40.0	4.5	365781	4903713	134.5	890
54	Existing	24.4	40.0	4.5	367146	4904098	138.7	872
55	Existing	23.2	40.0	4.5	367888	4903013	124.5	1035
56	Existing	23.0	40.0	4.5	367909	4903049	124.5	1065
57	Existing	23.5	40.0	4.5	365676	4902425	124.5	1094
58	Existing	24.0	40.0	4.5	365654	4903592	133.4	946
59	Existing	24.0	40.0	4.5	365730	4903727	134.5	941
60	Existing	22.5	40.0	4.5	367926	4903216	124.5	1145
61	Existing	22.7	40.0	4.5	367944	4903078	124.5	1108
62	Existing	23.1	40.0	4.5	365879	4902086	121.9	1061
63	Existing	23.3	40.0	4.5	365489	4903250	130.6	1038
64	Existing	23.3	40.0	4.5	365646	4903743	134.5	1021
65	Existing	23.0	40.0	4.5	367312	4904188	139.5	1046
66	Existing	22.4	40.0	4.5	365807	4902040	121.2	1147
67	Existing	23.0	40.0	4.5	365650	4903811	134.5	1054
68	Existing	22.5	40.0	4.5	366536	4901668	119.3	1046
69	Existing	22.2	40.0	4.5	366382	4901674	119.5	1082
70	Existing	22.6	40.0	4.5	365526	4903684	133.6	1100
71	Existing	22.2	40.0	4.5	366329	4901680	119.5	1096
72	Existing	22.5	40.0	4.5	365500	4903658	133.3	1114
73	Existing	22.2	40.0	4.5	365512	4903779	134.3	1155
74	Existing	21.7	40.0	4.5	366199	4901665	119.1	1166
75	Existing	21.4	40.0	4.5	366245	4901600	117.0	1203
76	Existing	21.3	40.0	4.5	366085	4901666	117.8	1223
77	Existing	21.2	40.0	4.5	366069	4901660	117.4	1237
78	Existing	21.2	40.0	4.5	366190	4901603	116.6	1225
79	Existing	21.5	40.0	4.5	365415	4903793	134.0	1248
80	Existing	21.0	40.0	4.5	366139	4901589	115.5	1261
81	Existing	20.7	40.0	4.5	366016	4901609	115.0	1308
82	Existing	20.8	40.0	4.5	366826	4901429	115.3	1265
83	Existing	20.7	40.0	4.5	365991	4901610	114.8	1322

ID	Description	Total Sound Pressure (dBA)	Performance Limit (dBA)	Height (m)	UTM Coordinates NAD83 Zone18			Min dist. to source (m)
					X (m)	Y (m)	Z (m)	
84	Existing	20.7	40.0	4.5	367679	4901743	114.7	1237
85	Existing	20.4	40.0	4.5	367768	4901816	114.6	1242
86	Existing	20.6	40.0	4.5	366861	4901414	115.5	1282
87	Existing	20.9	40.0	4.5	365339	4903808	134.0	1322
88	Existing	20.3	40.0	4.5	367795	4901814	114.5	1262
89	Existing	20.4	40.0	4.5	367715	4901725	114.0	1274
90	Existing	20.4	40.0	4.5	365815	4901666	115.8	1388
91	Existing	20.4	40.0	4.5	366875	4901385	115.2	1313
92	Existing	20.7	40.0	4.5	365271	4903752	133.5	1361
93	Existing	20.2	40.0	4.5	365766	4901673	116.2	1417
94	Existing	20.6	40.0	4.5	365288	4903813	133.9	1370
95	Existing	20.4	40.0	4.5	365265	4903816	133.9	1393
96	Existing	20.4	40.0	4.5	365270	4903845	134.1	1401
97	Existing	19.4	40.0	4.5	367907	4901809	110.8	1347
98	Existing	20.1	40.0	4.5	365215	4903835	134.0	1446
99	Existing	20.0	40.0	4.5	365213	4903857	134.1	1457
100	Existing	17.9	40.0	4.5	368194	4902084	110.3	1435
101	Existing	19.8	40.0	4.5	365178	4903844	134.0	1483
102	Existing	19.8	40.0	4.5	365123	4903732	133.3	1492
103	Existing	19.6	40.0	4.5	365110	4903782	133.7	1522
104	Existing	18.2	40.0	4.5	368362	4902275	112.2	1523
105	Existing	19.5	40.0	4.5	365135	4903856	134.2	1527
106	Existing	19.4	40.0	4.5	365118	4903868	134.3	1548
107	Existing	17.8	40.0	4.5	368397	4902267	110.8	1559
108	Existing	18.9	40.0	4.5	365041	4903916	134.5	1638
109	Existing	18.7	40.0	4.5	365011	4903913	134.5	1664
110	Existing	18.4	40.0	4.5	364922	4903826	134.2	1713
111	Existing	18.4	40.0	4.5	364942	4903879	134.5	1714
112	Existing	18.2	40.0	4.5	364883	4903837	134.3	1753
113	Existing	18.2	40.0	4.5	364872	4903824	134.2	1759
114	Existing	17.7	40.0	4.5	364823	4903911	134.5	1836
115	Existing	17.7	40.0	4.5	365499	4904756	134.5	1775
116	Existing	17.5	40.0	4.5	364792	4903920	134.5	1868
117	Existing	16.6	40.0	4.5	365182	4904745	134.5	1985
118	Existing	16.6	40.0	4.5	365211	4904781	134.5	1989
119	Existing	16.6	40.0	4.5	364893	4904450	134.5	2037
120	Existing	16.5	40.0	4.5	365148	4904745	134.5	2010
121	Existing	16.4	40.0	4.5	364855	4904442	134.5	2066
122	Existing	16.4	40.0	4.5	364836	4904433	134.5	2077
123	Existing	16.2	40.0	4.5	364677	4904232	134.5	2105
124	Existing	16.2	40.0	4.5	364705	4904280	134.5	2104

In order to account for the potential noise impacts to vacant lots surrounding the Project Location (i.e., those that could have an inhabited building constructed on the lot at a future date), a comparison was made between the Zoning Designation (Figure A.1 in Appendix A), the noise receptors, land parcels surrounding the Project Location and the noise contours shown in Figure C.1 and Figure C.2 in Appendix C. The results from the comparison are summarized in Table 6.3 below and show that the 40-dBA noise contour partially encroaches onto five parcels surrounding the Project Location.

Effect of the noise emissions at the POR was also assessed by intersecting the 40-dBA sound pressure noise contours calculated at 1.5-m above ground with 30-m radius circles placed around the POR (Figure C.2). The results show that none of the 30-m radius zones are affected by the noise emissions.

**Table 6.3 Parcels Partially Affected by the Project’s noise emission**

Parcels ID	PIN	Zoning	Description
PR01	451300047	Rural	Contains an existing noise receptor
PR02	451300049	Rural	Vacant lot
PR03	N/A*	Rural	Contains existing noise receptors
PR04	451300050	Rural	Contains an existing noise receptor
PR05	451300134	Rural	Vacant lot

\*(N/A – no parcel PIN information available at time of study)

The noise receptors located on parcels PR01, PR03 and PR04 were included in the CADNA-A model and determined to be compliant with the MOE performance limits.

As described in 1.(4)4. of Ontario Regulation 521/10, a noise receptor on a vacant lot (where no building permit has been issued) is considered to be the location “. . . at which a building would reasonably be expected to be located, having regard to the existing zoning by-law and the typical building pattern in the area . . .”. For parcel PR02, a building would reasonably be expected to be located anywhere adjacent to Hwy 2 South outside of the 40-dBA contour line encroachment. Presently there is limited access to the PR05 parcel. However, should more complete access be made available in the future there is sufficient land to build a residence that is unaffected by the 40-dBA contour line. Hence, for both vacant lot parcels, there is sufficient room on the unaffected property for a future dwelling (i.e., noise receptor) to be built on the property, be below 40-dBA and, thus, be compliant with the MOE performance limits.

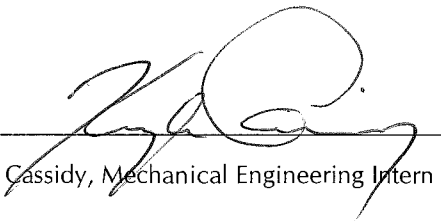
Based on the above, the results show that all POR are compliant with MOE guidelines based on the performance limits.

## 7. Conclusions and Recommendations

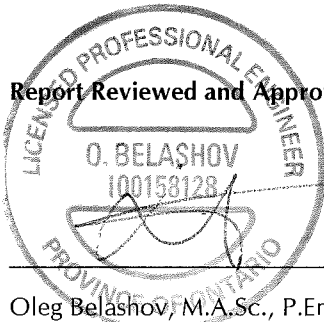
For the Kingston Gardiner Hwy 2 South Solar Energy Project, the sound pressure levels at the POR have been estimated using the CADNA-A model, based on ISO 9613-2. The performance limits used for comparison correspond to Class 3 areas, with a 40-dBA threshold. Mitigation for operation of the Project has been modeled and shown to be feasible.

Based on the results obtained in this study, it is concluded that the sound pressure levels at the POR resulting from the Project operation will be below MOE requirements for Class 3 areas of 40 dBA at all time.

### Report Prepared By

  
\_\_\_\_\_  
Kyle Cassidy, Mechanical Engineering Intern

### Report Reviewed and Approved By

  
\_\_\_\_\_  
Oleg Belashov, M.A.Sc., P.Eng.

Jan 26, 2012



## 8. References

Ontario Regulation 359/09. Environmental Protection Act. Renewable Energy Approvals Under Part V.0.1 of the Act.

Ontario Regulation 521/10 made under Environmental Protection Act amending O.Reg. 359/09.

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Handbook of Noise and Vibration Control; Malcolm J. Crocker, 2007;

IEEE. 2006. C57.12.90-2006: Standard Test Code for Liquid-Immersed, Power and Regulating Transformers. pp 64 to 76.

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MOE. 1995. Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban). Publication NPC-205. Ontario Ministry of the Environment. 6 pp + Annex.

MOE. 1995. Sound Level Limits for Stationary Sources in Class 3 Areas (Rural). Publication NPC-232. Ontario Ministry of the Environment. 8 pp + Annex.

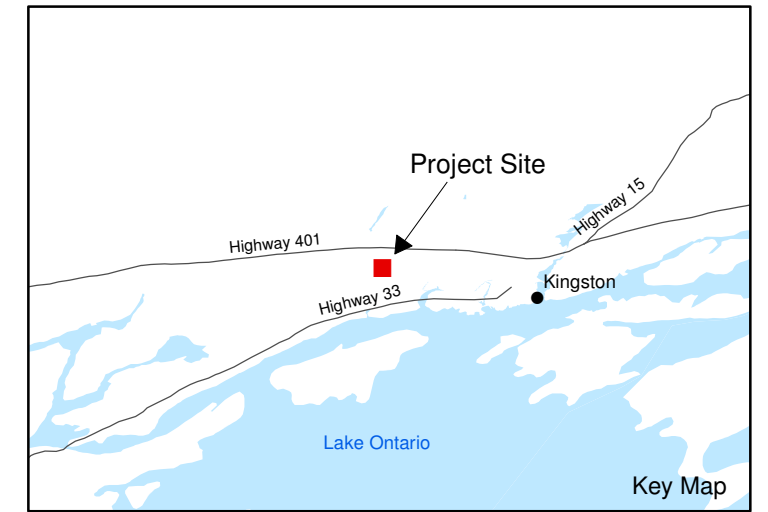
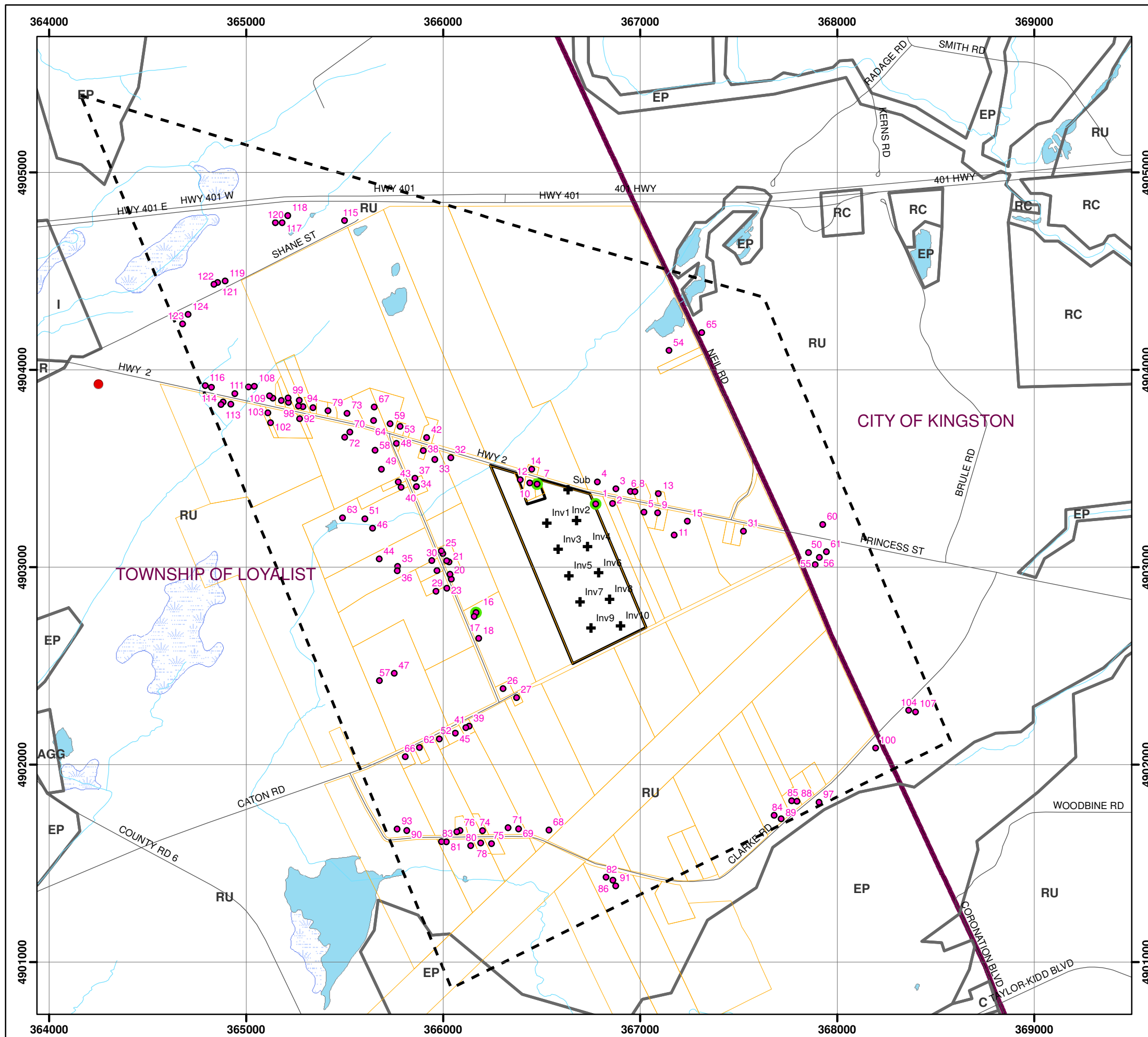
NEMA. 2000. Standards Publication No. TR 1-1993 (R2000): Transformers, Regulators and Reactors. National Electrical Manufacturers Association. 31 pp. (This reference probably not needed now).

International Organization for Standardization (ISO). Standard 1996-1: Description, Measurement and Assessment of Environmental Noise – Part 1: Basic Quantities and Assessment Procedures.

International Organization for Standardization (ISO). Standard 1913-2:Acoustics – Attenuation of sound during propagation outdoors – Part 2: General Method of Calculation.

**Appendix A**

**Land Use Zoning Designation Plan,  
and Area Location Plan**



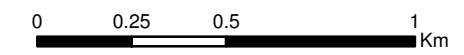
**LEGEND**

- Sub Substation Transformer
- Inv# Inverter Unit
- # Noise Receptor
- # Representative Noise Receptor
- Road
- Watercourse
- 1200m Envelope
- Project Site
- Parcel
- Municipality
- Water Body
- Wetland Area
- Zone Boundary

**Zones**

- AGG** Aggregate
- C** Commercial
- EP** Environmental Protection
- FA** Fringe Area
- I** Industrial
- RC** Rural Commercial
- RU** Rural

Notes:  
 1. OBM and NRVIS data downloaded from LIO, with permission.  
 2. Spatial Referencing UTM NAD 83.  
 3. Land use information obtained from the Township of Loyalist and City of Kingston Official Plans.

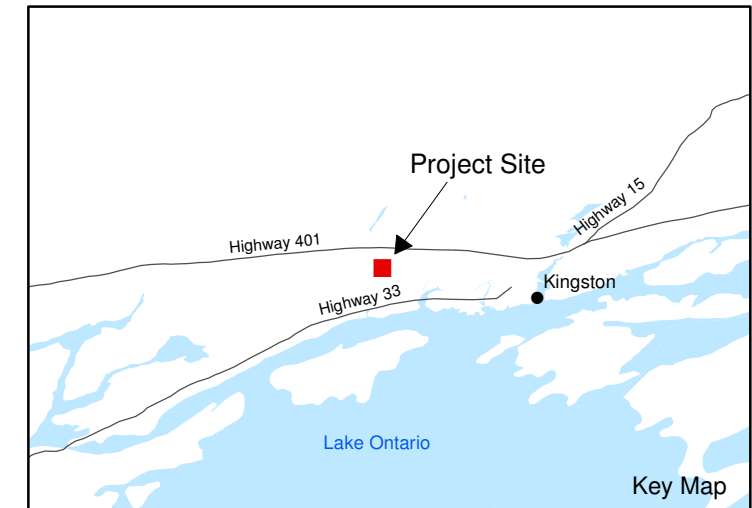
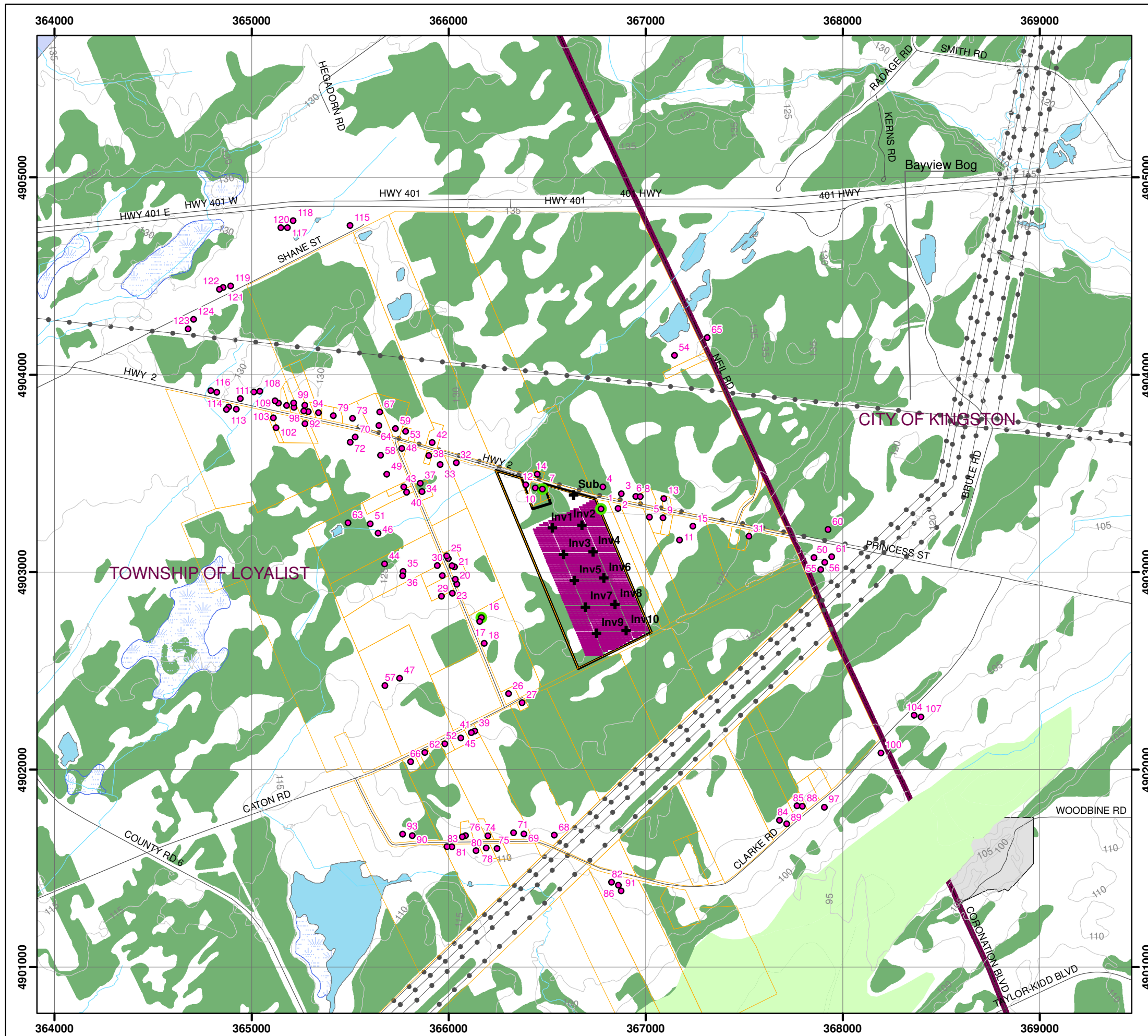


1:20,000



Figure A.1  
 Axiom Power Canada Inc./SunEdison Canada  
 Kingston Gardiner Hwy 2 South  
 Land Use Plan





- LEGEND**
- Sub Substation
  - Inv# Inverter Unit
  - Noise Receptor
  - Representative Noise Receptor
  - Railway
  - Road
  - Transmission Line
  - Watercourse
  - Solar PV Panels
  - Project Site
  - Parcel
  - Municipality
  - Water Body
  - Wetland
  - Provincially Significant Wetland
  - Woodland

Notes:  
 1. OBM and NRVIS data downloaded from LIO, with permission.  
 2. Spatial Referencing UTM NAD 83.



Figure A.2  
 Axiom Power Canada Inc./SunEdison Canada  
**Kingston Gardiner Hwy 2 South**  
**Area Location Plan**

# Appendix B

## Noise Sources



**Table B.1 Point Sources Used in CADNA-A, Includes Tonality Penalty of 5.0-dBA. NAD83 Zone18.**

Source ID	Description	Spectra ID	Total Sound Power Level - 24 Hours (dBA)	Correction - 24 Hours (dBA)	Height (m)	UTM Coordinates (m)		
						X	Y	Z
Sub	44-kV/10-MVA Substation transformer	Transformer10MVA	90.8	5.0	3.0	366634	4903392	133.0
Inv1	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	366526	4903226	132.8
Inv2	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	366677	4903239	133.4
Inv3	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	366584	4903091	131.9
Inv4	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	366733	4903105	132.3
Inv5	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	366639	4902958	131.1
Inv6	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	366789	4902972	131.1
Inv7	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	366695	4902825	129.9
Inv8	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	366844	4902839	129.8
Inv9	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	366751	4902692	128.8
Inv10	Sunny Central 1000MV inverter unit	SC1000MV	102.2	5.0	3.5	366901	4902705	128.6

**Table B.2 Frequency Spectra Used for Modelling the Noise Sources, Not Including Tonality Penalty.**

Spectra ID	Octave Spectrum (dBA)										
	31.5	63	125	250	500	1000	2000	4000	8000	A	lin
Transformer10MVA	43.0	62.2	74.3	76.8	82.2	79.4	75.6	70.4	61.3	85.8	94.4
SC1000MV		64.8	78.9	93	91.6	90.1	87.6	79.9	65.4	97.2	103.7

**Table B.3 Noise Reduction and Sound Transmission Characteristics of the Acoustical Louvers.**

Name	Octave Spectrum (dB)									
	31.5	63	125	250	500	1000	2000	4000	8000	
Greenheck Louver	0	10	10	12	16	23	18	0	0	



#### Efficient

- Without low-voltage transformer: greater plant efficiency due to direct connection to the medium-voltage grid

#### Turnkey Delivery

- With medium-voltage transformer and concrete substation for outdoor installation

#### Optional

- Medium-voltage switchgear systems for a flexible structure of large solar parks
- AC transfer station with measurement

- Medium-voltage transformers for other grid voltages (deviating from 20 kV)

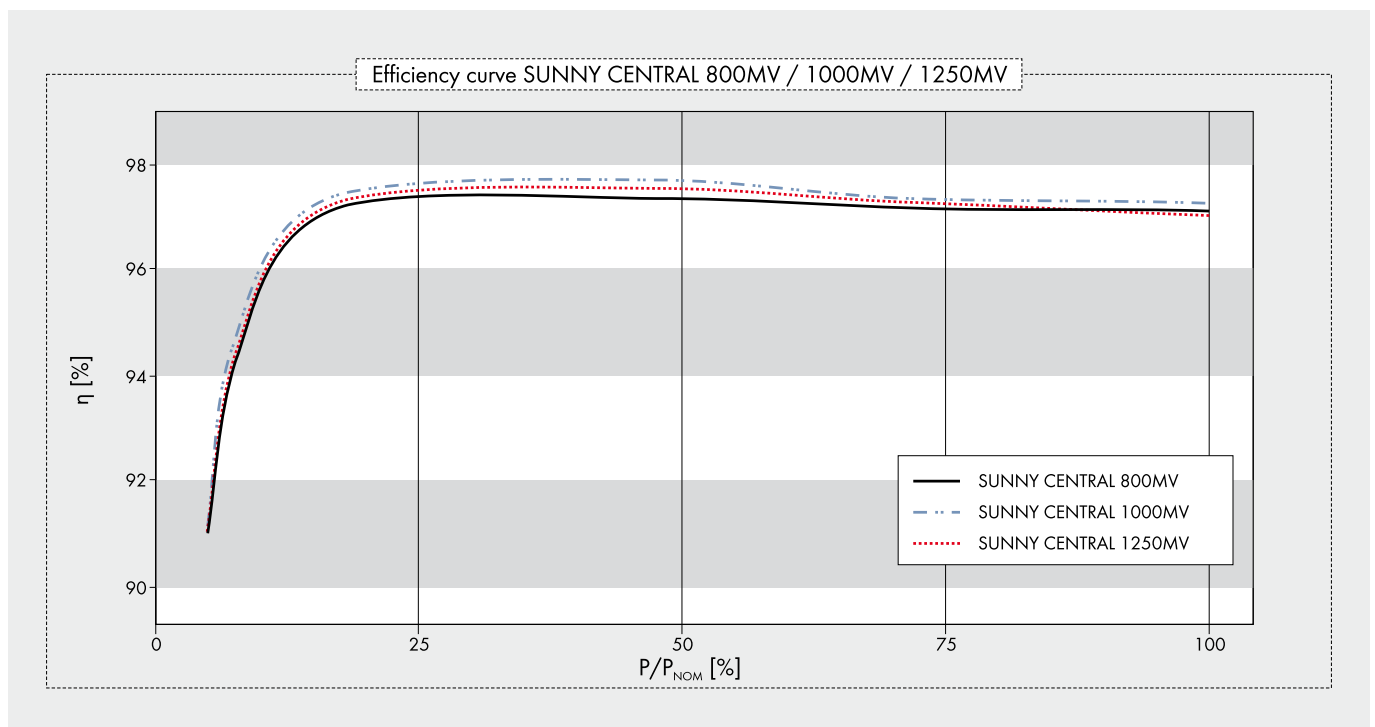
## SUNNY CENTRAL for Direct medium-voltage feed-in 800MV / 1000MV / 1250MV

High-performance medium-voltage station

For even more power: Two powerful Sunny Central HE inverters are components of a medium-voltage station (MV) which feeds directly into a shared medium-voltage transformer. In this way, for example, two Sunny Central 630HE inverters are combined into a powerful Sunny Central 1250MV station. The advantage: By removing the need for the low-voltage transformer, the plant operator realizes greater yields and at the same time lower inverter costs. The Sunny Central MV is delivered as a "turnkey" concrete substation for outside installation. On top of that, the Sunny Central MV actively participates in grid management, and thereby fulfils all requirements of the Medium-Voltage Directive valid as of July 2010.

# SUNNY CENTRAL 800MV / 1000MV / 1250MV

Technical data	Sunny Central 800MV	Sunny Central 1000MV	Sunny Central 1250MV
<b>Input data</b>			
Nominal DC power	816 kW	1018 kW	1284 kW
Max. DC power	900 kW <sup>1)</sup>	1120 kW <sup>1)</sup>	1410 kW <sup>1)</sup>
MPP voltage range	450 V - 820 V <sup>5)</sup>	450 V - 820 V <sup>5)</sup>	500 V - 820 V <sup>5) 7)</sup>
Max. DC voltage	1000 V	1000 V	1000 V
Max. DC current	1986 A	2484 A	2844 A
Number of DC inputs	(16 + 16) + 4 DCHV	(16 + 16) + 4 DCHV	(16 + 16) + 4 DCHV
<b>Output data</b>			
Nominal AC power @ 45 °C	800 kVA	1000 kVA	1250 kVA
Continuous AC power @ 25 °C	880 kVA	1100 kVA	1400 kVA
Nominal AC voltage	20000 V	20000 V	20000 V
Nominal AC current	23.2 A	28.8 A	36.1 A
AC grid frequency 50 Hz	●	●	●
AC grid frequency 60 Hz	●	●	●
Power factor (cos φ)	0.9 leading ... 0.9 lagging		
Max. THD	< 3 %	< 3 %	< 3 %
<b>Power consumption</b>			
Internal consumption in operation	< 3000 W <sup>4)</sup>	< 3000 W <sup>4)</sup>	< 3000 W <sup>4)</sup>
Standby consumption	< 180 W + 1100 W	< 180 W + 1100 W	< 180 W + 1350 W
External auxiliary supply voltage	3 x 230 V, 50/60 Hz	3 x 230 V, 50/60 Hz	3 x 230 V, 50/60 Hz
External back-up fuse for auxiliary supply	B 20 A, 3-pole	B 20 A, 3-pole	B 20 A, 3-pole
<b>Dimensions and weight</b>			
Height	3620 mm	3620 mm	3620 mm
Width	5400 mm	5400 mm	5400 mm
Depth	3000 mm	3000 mm	3000 mm
Weight	35000 kg	35000 kg	35000 kg
<b>Efficiency<sup>2)</sup></b>			
Max. efficiency	97.7 %	97.9 %	97.8 %
Euro-eta	97.3 %	97.5 %	97.4 %
<b>Protection rating and ambient conditions</b>			
Protection rating (as per EN 60529)	IP54	IP54	IP54
Operating temperature range	-20 °C ... +45 °C	-20 °C ... +45 °C	-20 °C ... +45 °C
Rel. humidity	15 % ... 95 %	15 % ... 95 %	15 % ... 95 %
Fresh air consumption	12400 m <sup>3</sup> /h	12400 m <sup>3</sup> /h	12400 m <sup>3</sup> /h
Max. altitude (above sea level)	1000 m	1000 m	1000 m





	Sunny Central 800MV	Sunny Central 1000MV	Sunny Central 1250MV
<b>Features</b>			
Display: text line / graphic	●/–	●/–	●/–
Ground fault monitoring	●	●	●
Heating	●	●	●
Emergency stop	●	●	●
Circuit breaker AC side	SI load disconnection switch	SI load disconnection switch	SI load disconnection switch
Circuit breaker DC side	Switch-disconnector with motor	Switch-disconnector with motor	Switch-disconnector with motor
Monitored overvoltage protectors AC / DC	●/●	●/●	●/●
Monitored overvoltage protectors for auxiliary supply	●	●	●
<b>SCC (Sunny Central Control) interfaces</b>			
Communication (NET Piggy-Back, optional)	analog, ISDN, Ethernet	analog, ISDN, Ethernet	analog, ISDN, Ethernet
Analog inputs	10 x A <sub>m</sub> <sup>3)</sup>	10 x A <sub>m</sub> <sup>3)</sup>	10 x A <sub>m</sub> <sup>3)</sup>
Overvoltage protection for analog inputs	○	○	○
Sunny String-Monitor connection (COM1)	RS485	RS485	RS485
PC connection (COM3)	RS232	RS232	RS232
Electrically separated relay (ext. alert signal)	2	2	2
<b>Certificates / listings</b>			
EMC	EN 61000-6-2 EN 61000-6-4		
CE conformity	●	●	●
BDEW-MSRL / FGW / TR8 <sup>6)</sup>	●	●	●
RD 1633 / 2000	●	●	●
Arrêté du 23/04/08	●	●	●
● standard features   ○ optional features   – not available			
Type designation	SC 800MV-11	SC 1000MV-11	SC 1250MV-11

HE: High Efficiency, inverter without galvanic isolation for connection to a medium-voltage transformer (taking into account the SMA specification for the transformer)

1) Specifications apply to irradiation values below STC

2) Efficiency measured without an internal power supply at  $U_{DC} = 500 V$

3) 2x inputs for the external nominal value specification for active power and reactive power, 1x external alarm input, 1x irradiation sensor, 1x pyranometer

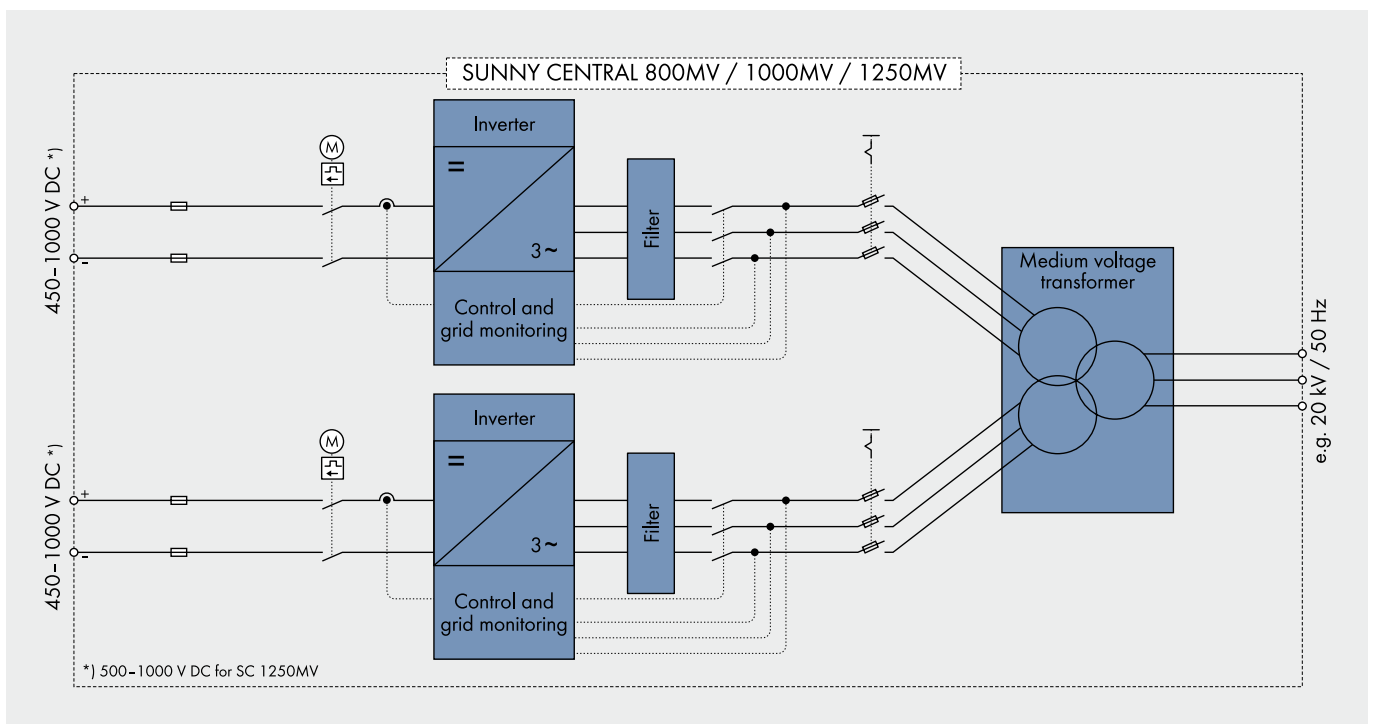
4) Internal consumption at nominal power

5) At  $1.05 U_{AC, nom}$  and  $\cos \varphi = 1$

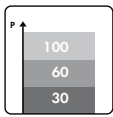
6) With limited dynamic grid support

7) At  $f_{grid} = 60 Hz$ : 510 V - 820 V

**Please note:** in certain countries the substations may differ from the substations shown in the images

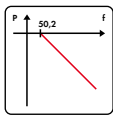


# POWERFUL GRID MANAGEMENT FUNCTIONS



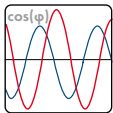
## Remote controlled power reduction in case of grid overload

In order to avoid short-term grid overload, the grid operator presets a nominal active power value which the inverter will implement within 60 seconds. The nominal value is transmitted to the inverters via a ripple control receiver in combination with the SMA Power Reducer Box. Typical limit values are 100, 60, 30 or 0 per cent of the nominal power.



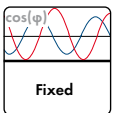
## Frequency-dependent control of active power

As of a grid frequency of 50.2 Hz, the inverter automatically reduces the fed-in of active power according to a definable characteristic curve which thereby contributes to the stabilization of the grid frequency.



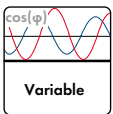
## Static voltage support based on reactive power

To stabilize the grid voltage, SMA inverters feed reactive power (leading or lagging) into the grid. Three different modes are available:



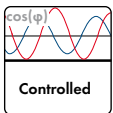
### a) Fixed definition of the reactive power by the grid operator

The grid operator defines a fixed reactive power value or a fixed displacement factor between  $\cos(\varphi)_{\text{leading}} = 0.90$  and  $\cos(\varphi)_{\text{lagging}} = 0.90$ .



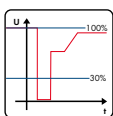
### b) Definition of a dynamic setpoint of the reactive power by the utility operator

The grid operator defines a dynamic displacement factor - any value between  $\cos(\varphi)_{\text{leading}} = 0.90$  and  $\cos(\varphi)_{\text{lagging}} = 0.90$ . It is transmitted either through a communication unit the evaluation can e.g. be evaluated and processed by the SMA Power Reducer Box.



### c) Control of the reactive power over a characteristic curve

The reactive power or the phase shift is controlled by a pre-defined characteristic curve - depending on the active power fed into the grid or the grid voltage.



## Limited Dynamic Grid Support

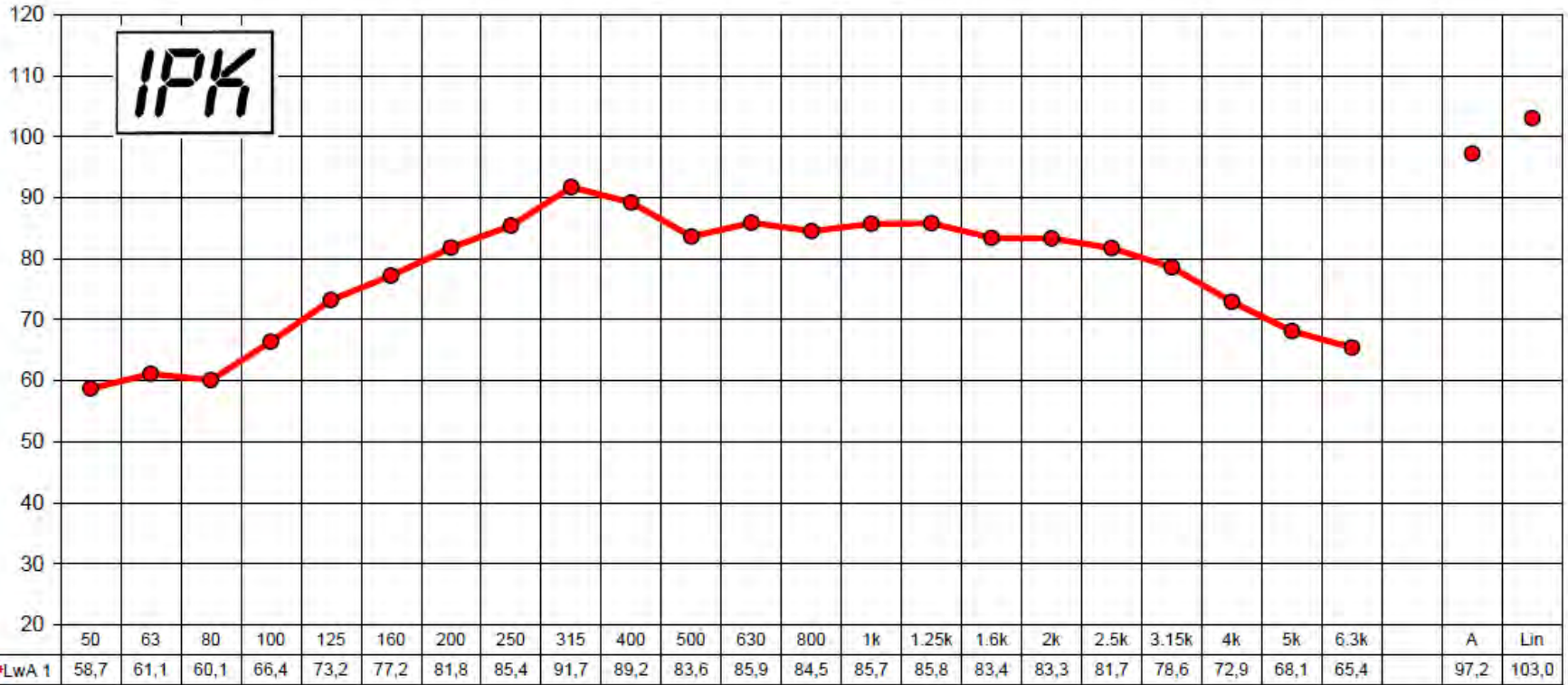
The inverter continues to feed to the grid after short term voltage drops - as long as the grid voltage is within a defined voltage window.

SMA Solar Technologie Umrichteranlage Sunny Central SC 1000MV  
 Betrieb bei Nennleistung und 50 Hz; 1000 KW

SMA Solar Technologies Inverter Unit Sunny Central SC 1000MV  
 Name Plate Capacity 1000 kW at 50 Hz

A - bewerteter Schalleistungspegel LwA re 1 pW [dB(A)]

Evaluated sound power levels LwA ref 1pW [dBA]



Third octave band frequency [Hz]

Terz - Mittenfrequenz [Hz]

## Estimated Frequency Spectra for Transformers

### Transformer - 44kV/10MVA

From Handbook of Noise and Vibration Control (Crocker, 2007, page 1335-1336, Eq. 18 and Table 20) and Beranek's old notes (page 7-19)

Average LpA                                      68 dBA                      Based on NEMA TR1-1993 (R2000), Table 0-2  
 Estimated surface area                      35 m<sup>2</sup>                      Can be assumed, 25% of change will produce a difference of 1 dB on Lw, try to estimate on the high side

Correction factors are in dB

Freq. (Hz)	31	63	125	250	500	1000	2000	4000	8000	Notes
C1	-11.0	-5.0	-3.0	-8.0	-8.0	-14.0	-19.0	-24.0	-31.0	Outdoors, indoors in mechanical room over 140 m <sup>3</sup>
C2	-11	-2	3	-2	-2	-11	-19	-24	-31	Indoors
C3	-11	-2	3	2	2	-4	-9	-14	-21	Serious Noise Problems

Sound Power Level calculated as  $L_w = \text{Average LpA} + 10 \cdot \log(\text{Estimated surface area}) + C + 10$

Freq. (Hz)	31	63	125	250	500	1000	2000	4000	8000	Combined [dB]
C1 based [dB]	82.4	88.4	90.4	85.4	85.4	79.4	74.4	69.4	62.4	94.5
C2 based [dB]	82.4	91.4	96.4	91.4	91.4	82.4	74.4	69.4	62.4	99.5
C3 based [dB]	82.4	91.4	96.4	95.4	95.4	89.4	84.4	79.4	72.4	101.5

Resulting A-weighted sound power level

Freq. (Hz)	A-Weight	C1 based [dBA]	C2 based [dBA]	C2 based [dBA]
31	-39.4	43.0	52.0	57.0
63	-26.2	62.2	65.2	65.2
125	-16.1	74.3	80.3	80.3
250	-8.6	76.8	82.8	86.8
500	-3.2	82.2	88.2	92.2
1000	0	79.4	82.4	89.4
2000	1.2	75.6	75.6	85.6
4000	1	70.4	70.4	80.4
8000	-1.1	61.3	61.3	71.3
LwA [dBA]		85.8	90.8	95.6


 Used in the study

Figure B.1 Sound Power Level Calculation for 44-kV/10-MVA Substation Transformer.

Third octave, as provided		
Freq #	Freq (Hz)	LwA (dBA)
1	25	
2	31.5	
3	40	
4	50	58.7
5	63	61.1
6	80	60.1
7	100	66.4
8	125	73.2
9	160	77.2
10	200	81.8
11	250	85.4
12	315	91.7
13	400	89.2
14	500	83.6
15	630	85.9
16	800	84.5
17	1000	85.7
18	1250	85.8
19	1600	83.4
20	2000	83.3
21	2500	81.7
22	3150	78.6
23	4000	72.9
24	5000	68.1
25	6300	65.4
26	8000	
27	10000	
<b>Total LwA</b>		<b>97.2</b>

Full octave, as used in CADNA-A model		
Freq #	Freq (Hz)	LwA (dBA)
	31.5	
5	63	64.8
8	125	78.9
11	250	93.0
14	500	91.6
17	1000	90.1
20	2000	87.6
23	4000	79.9
26	8000	65.4
<b>Total LwA</b>		<b>97.2</b>

$$\rightarrow 10\log\left(10^{\frac{58.7}{10}} + 10^{\frac{61.1}{10}} + 10^{\frac{60.1}{10}}\right) = 64.8\text{dBA}$$

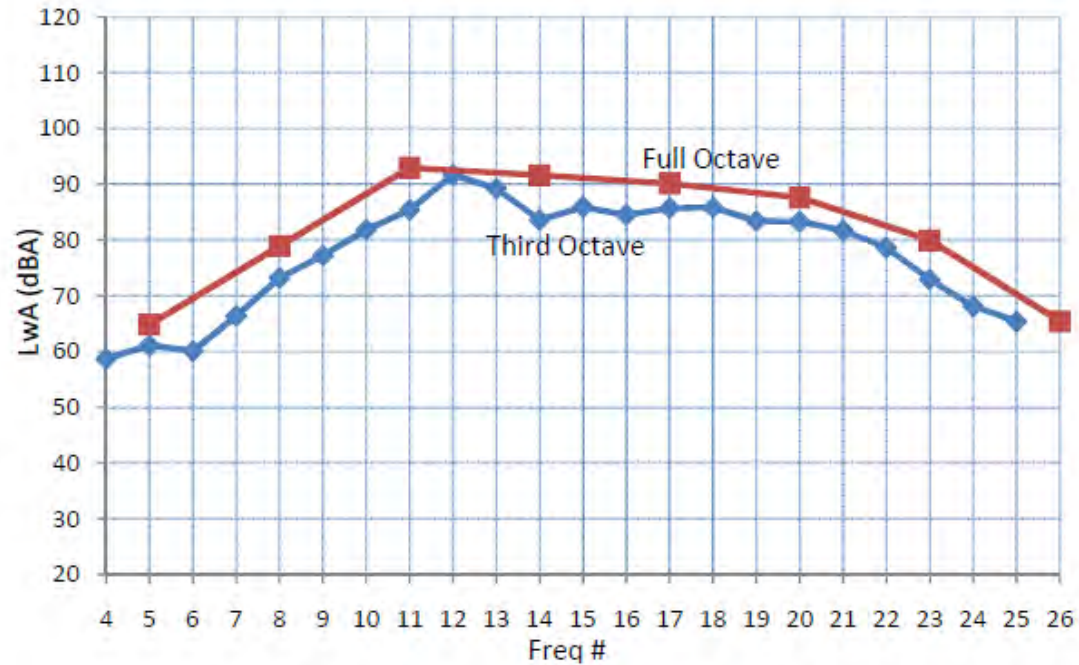


Figure B.2 Sound Power Level Calculation for SMA Sunny Central 1000MV, 100% LOAD.



## Acoustical Louver J Blade

### Application and Design

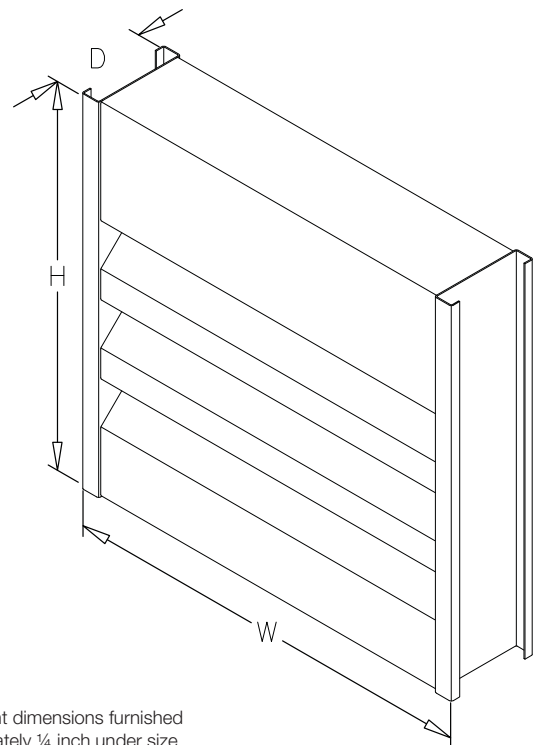
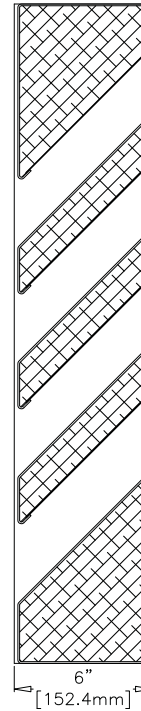
AFJ-601 is an acoustical weather louver designed to protect air intake and exhaust openings in building exterior walls. Design incorporates J style insulated acoustical blades and high free area to provide maximum resistance to sound transmission, rain and weather while providing minimum resistance to airflow. The AFJ-601 is an extremely efficient louver with **AMCA LICENSED PERFORMANCE DATA** enabling designers to select and apply with confidence.

### Standard Construction

- Frame** . . . . . Heavy gauge formed aluminum,  
6 in. x 0.080 in. nominal wall thickness
- Blades** . . . . . J style, heavy gauge formed aluminum,  
0.080 in. nominal wall thickness, positioned  
at 45° on approximately 5 in. centers
- Construction** . . . Mechanically fastened
- Acoustical  
Insulation** . . . . . Fiberglass Insulation
- Birdscreen** . . . . . 3/4 in. x 0.051 flattened expanded aluminum in  
removable frame, inside mount (rear)
- Finish** . . . . . Mill
- Minimum Size** . . 12 in. W x 15 in. H
- Maximum Single  
Section Size** . . . 60 in. W x 120 in. H

### Options (at additional cost)

- A variety of bird and insect screens
- Blank off panels
- Clip angles
- Extended sill
- Filter racks
- Flanged frame
- Galvanized steel frame and blade
- Security bars
- A variety of architectural finishes including:
  - Clear anodize
  - Integral color anodize
  - Baked enamel paint
  - Kynar paint



\*Width and height dimensions furnished approximately 1/4 inch under size.

# PERFORMANCE DATA

# AFJ-601

## Free Area Chart (Sq. ft.)

## J Blade Acoustical Louver Formed Aluminum

Louver Height Inches	Louver Width Inches								
	12	18	24	30	36	42	48	54	60
15	0.12	0.21	0.29	0.37	0.45	0.53	0.61	0.69	0.77
18	0.25	0.41	0.57	0.74	0.90	1.06	1.22	1.38	1.55
24	0.37	0.62	0.86	1.10	1.35	1.59	1.83	2.08	2.32
30	0.50	0.82	1.15	1.47	1.80	2.12	2.44	2.77	3.09
36	0.62	1.03	1.43	1.84	2.24	2.65	3.05	3.46	3.86
42	0.75	1.24	1.72	2.21	2.69	3.18	3.67	4.15	4.64
<b>48</b>	<b>1.00</b>	<b>1.65</b>	<b>2.30</b>	<b>2.94</b>	<b>3.59</b>	<b>4.24</b>	<b>4.89</b>	<b>5.54</b>	<b>6.18</b>
54	1.12	1.85	2.58	3.31	4.04	4.77	5.50	6.23	6.96
60	1.25	2.06	2.87	3.68	4.49	5.30	6.11	6.92	7.73
66	1.37	2.26	3.16	4.05	4.94	5.83	6.72	7.61	8.50
72	1.50	2.47	3.44	4.41	5.39	6.36	7.33	8.30	9.27
78	1.75	2.88	4.02	5.15	6.28	7.42	8.55	9.69	10.82
84	1.87	3.09	4.30	5.52	6.73	7.95	9.16	10.38	11.59
90	2.00	3.29	4.59	5.89	7.18	8.48	9.77	11.07	12.37
96	2.12	3.50	4.88	6.25	7.63	9.01	10.38	11.76	13.14
102	2.25	3.71	5.16	6.62	8.08	9.54	11.00	12.45	13.91
108	2.50	4.12	5.74	7.36	8.98	10.60	12.22	13.84	15.46
114	2.62	4.32	6.02	7.73	9.43	11.13	12.83	14.53	16.23
120	2.75	4.53	6.31	8.09	9.88	11.66	13.44	15.22	17.00



Greenheck Fan Corporation certifies that the AFJ-601 louvers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to water penetration, air performance and sound ratings.

## Sound Transmission Class

The Sound Transmission Class (STC) is a rating of the effectiveness of an assembly in isolating or reducing airborne sound transmission. STC is a single number that summarizes airborne sound transmission loss data. Assemblies with higher STC ratings are more efficient at reducing sound transmission. STC is determined in accordance with ASTM E413-04.

## Transmission Loss

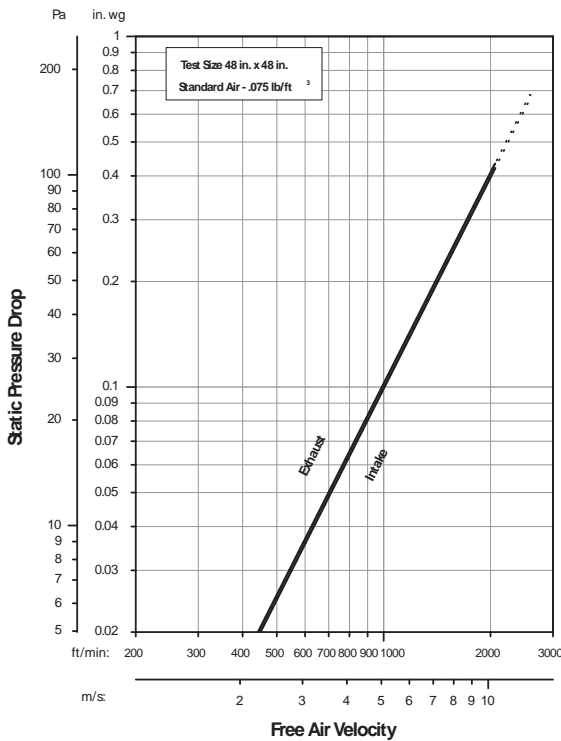
Transmission loss (TL) is a measurement of the reduction of sound power transmission (dB) through an assembly at a given frequency. The more sound power that is reduced, the greater the TL. TL is tested in accordance with ASTM E90-04.

## Free Field Noise Reduction in Decibels

Free Field Noise Reduction is determined by adding 6 dB to the Transmission Loss.

Octave Band	2	3	4	5	6	7	STC
Frequency (Hz)	63	125	250	500	1000	2000	10
Transmission Loss (dB)	4	4	6	10	17	12	
Free Field Noise Reduction (dB)	10	10	12	16	23	18	

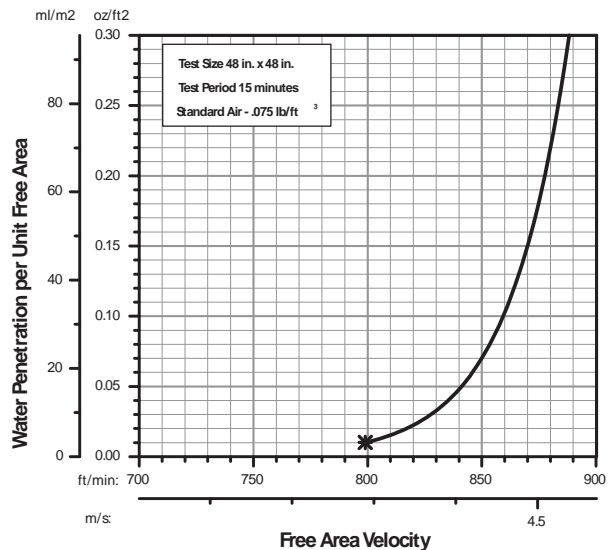
## Airflow Resistance (Standard Air - .075 lb/ft<sup>3</sup>)



Model AFJ-601 resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. See louver selection information.

## Water Penetration (Standard Air - .075 lb/ft<sup>3</sup>)

Test size 48 in. x 48 in. Test duration of 15 min.



The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The beginning point of water penetration is defined as that velocity where the water penetration curve projects through .01 oz. of water (penetration) per sq. ft. of louver free area.

**\*The beginning point of water penetration for Model AFJ-601 is 799 fpm free area velocity.** These performance ratings do not guarantee a louver to be weatherproof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers.



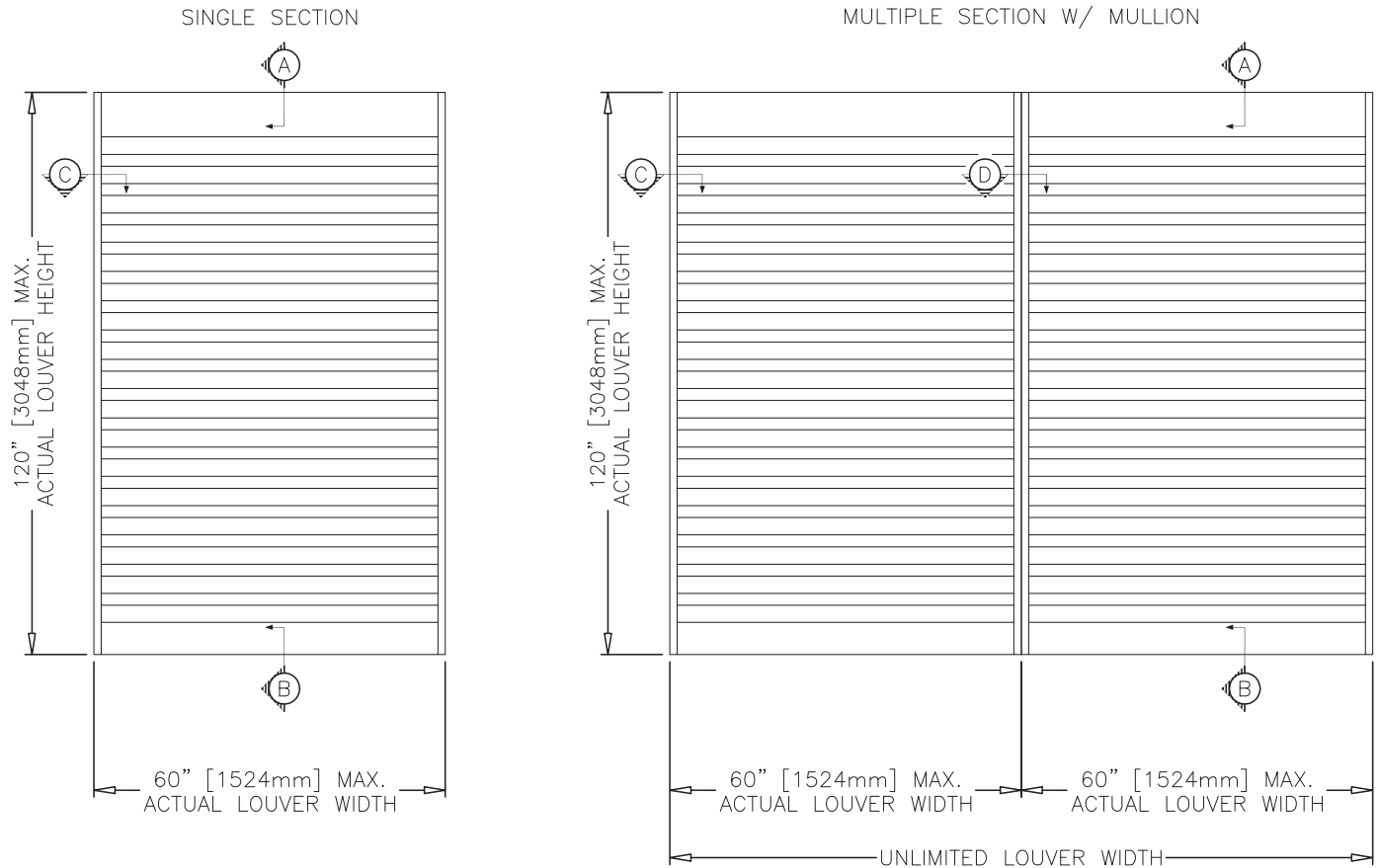
# INSTALLATION DETAILS

# AFJ-601

## Maximum Size and Installation Information

J Blade Acoustical Louver  
Formed Aluminum

Maximum single section size for model AFJ-601 is 60 in. W x 120 in. H. Larger openings require field assembly of multiple louver panels to make up the overall opening size. Individual louver panels are designed to withstand a 25 PSF wind-load (please consult Greenheck if the louvers must withstand higher wind-loads). Structural reinforcing members may be required to adequately support and install multiple louver panels within a large opening. Structural reinforcing members along with any associated installation hardware is not provided by Greenheck unless indicated otherwise by Greenheck. Additional information on louver installation may be found in AMCA Publication #501, Louver Application Manual.



**Minimum Single Section Size**  
12 in. W x 15 in. H

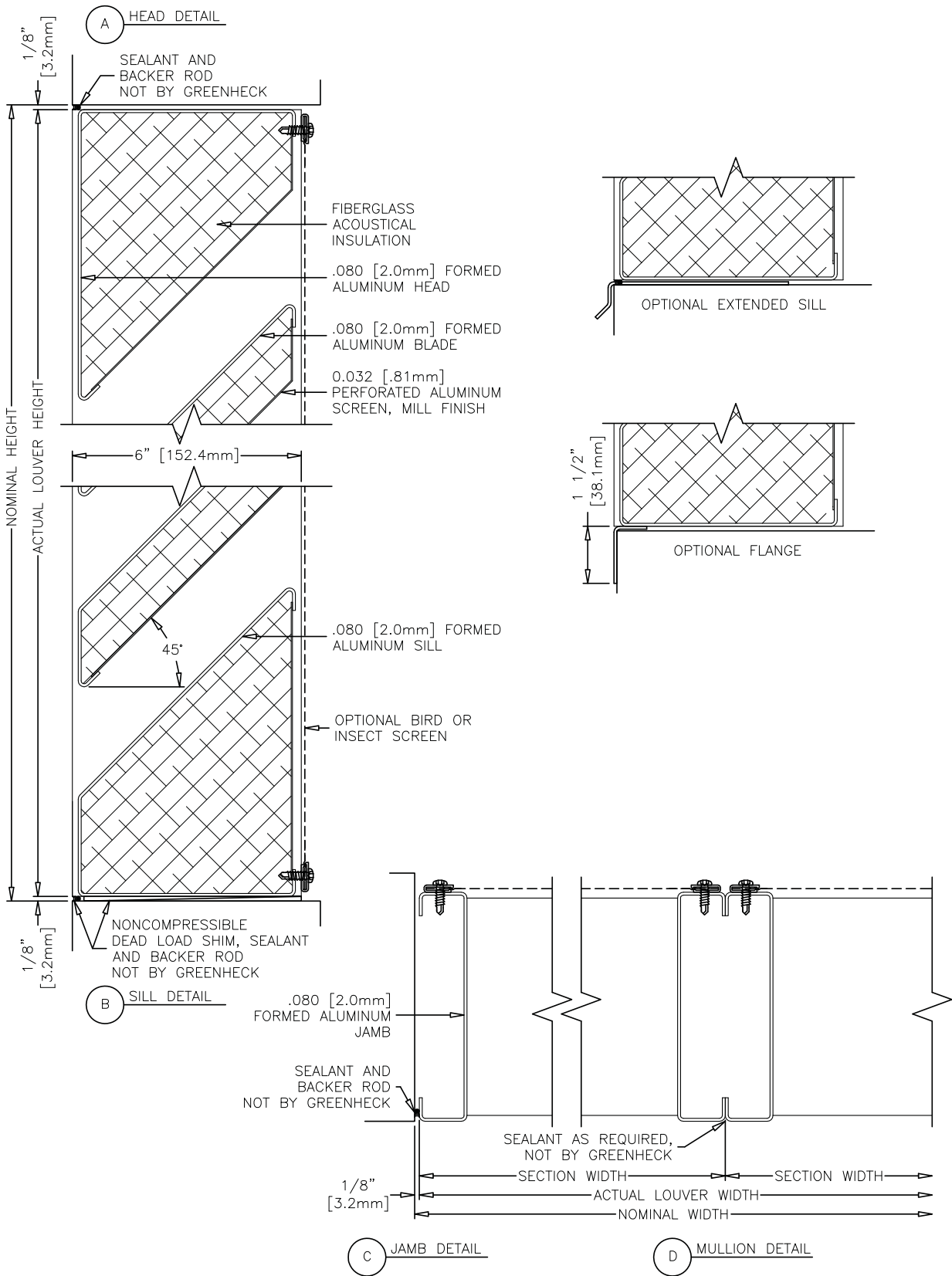
**Maximum Single Section Size**  
60 in. W x 120 in. H

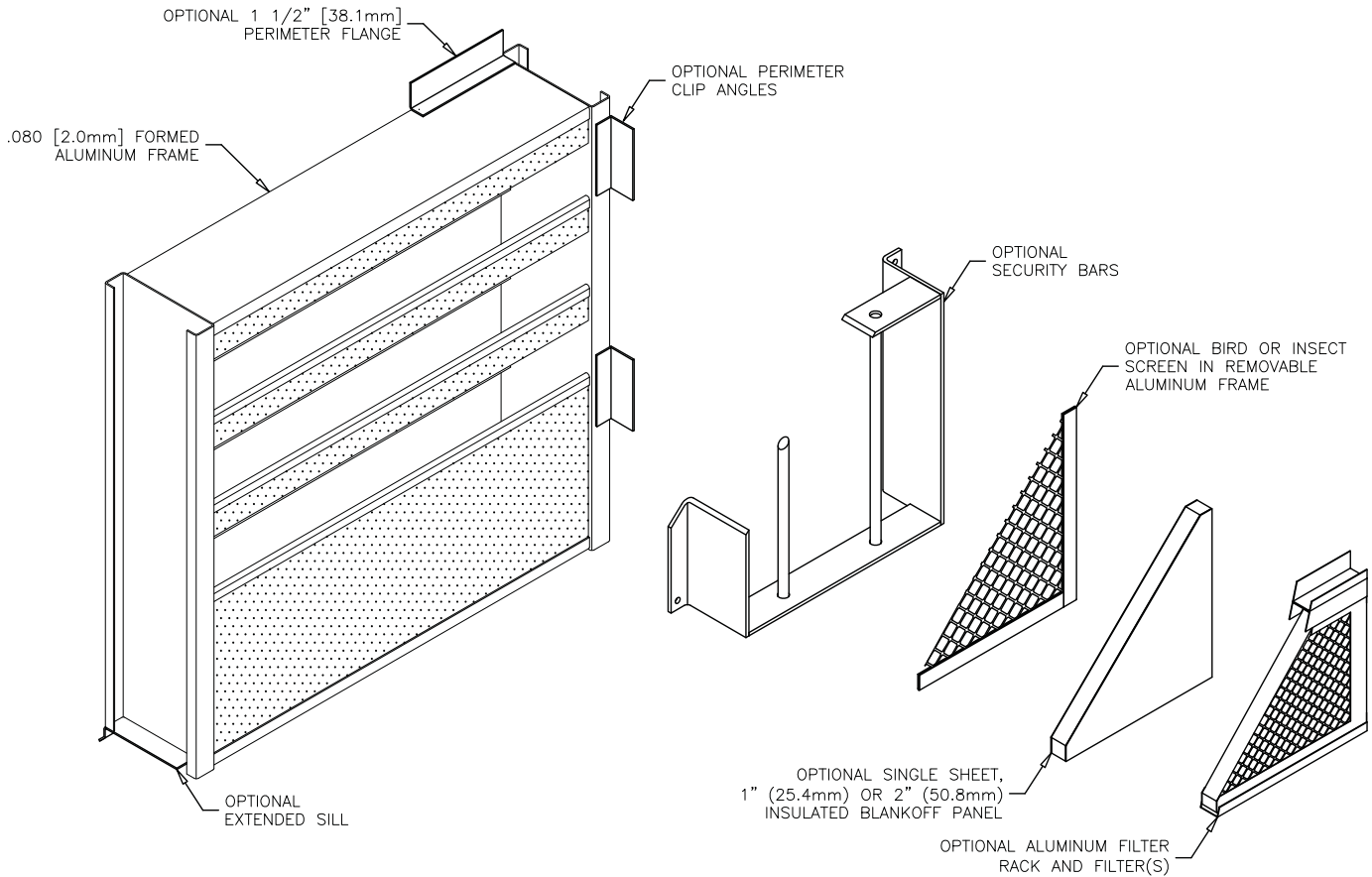


# PRODUCT DETAILS

# AFJ-601

J Blade Acoustical Louver  
Formed Aluminum





## FINISHES

Finish Type	Description/Application	Color Selection	Standard Warranty (Aluminum)
2-coat 70% KYNAR 500®/HYLAR 5000® AAMA 2605 – Dry film thickness 1.2 mil. (AKA: Duranar®, Fluoropon®, Trinar®, Flouropolymer, Polyvinylidene Fluoride, PVDF2)	<b>“Best.”</b> The premier finish for extruded aluminum. Tough, long-lasting coating has superior color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.	<b>Standard Colors:</b> Any of the 24 standard colors shown can be furnished in 70% or 50% KYNAR 500®/HYLAR 5000® or Baked Enamel.  <b>2-Coat Mica:</b> Greenheck offers 9 standard 2-coat Mica colors. Other colors are available. Consult Greenheck for possible extra cost when selecting non-standard colors or special finishes.	10 Years (Consult Greenheck for availability of extended warranty)
2-coat 50% KYNAR 500®/HYLAR 5000® AAMA 2604 – Dry film thickness 1.2 mil. (AKA: Acroflur®, Acrynar®)	<b>“Better.”</b> Tough, long-lasting coating has excellent color retention and abrasive properties. Resists chalking, fading, chemical abrasion and weathering.		5 Years
Baked Enamel AAMA 2603 – Dry film thickness 0.8 mil. (AKA: Acrabond Plus®, Duracron®)	<b>“Good.”</b> Provides good adhesion and resistance to weathering, corrosion and chemical stain.		1 Year
Integral Color Anodize AA-M10C22A42 (>0.7 mil)	“Two-step” anodizing is produced by following the normal anodizing step with a second, colorfast process.	Light, Medium or Dark Bronze; Champagne; Black	5 years
Clear Anodize 215 R-1 AA-M10C22A41 (>0.7 mil)	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	5 years
Clear Anodize 204 R-1 AA-M10C22A31 (0.4-0.7 mil)	Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack.	Clear	1 Year
Industrial coatings	Greenheck offers a number of industrial coatings such as Hi-Pro Polyester, Epoxy, and Permatector®. Consult a Greenheck Product Specialist for complete color and application information.		Consult Greenheck
Mill	Materials may be supplied in natural aluminum or galvanized steel finish when normal weathering is acceptable and there is no concern for color or color change.		n/a

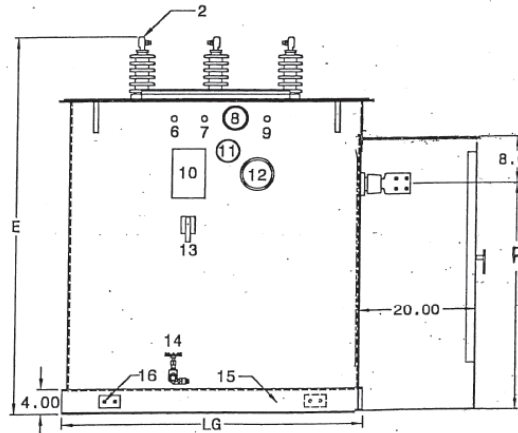
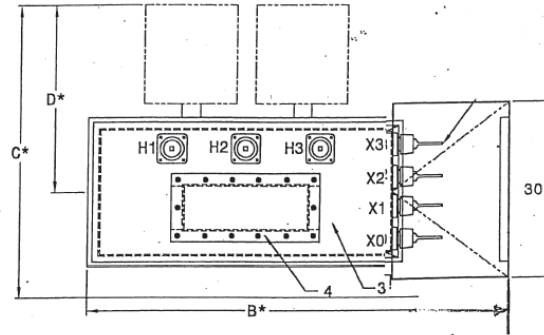
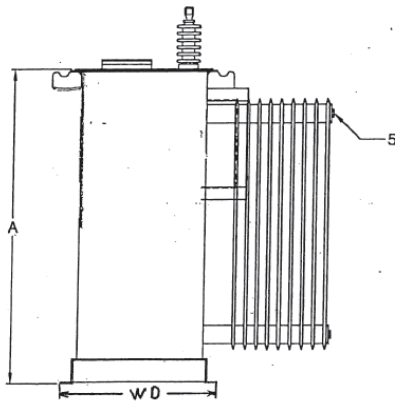
Finishes meet or exceed AAMA 2605, AAMA 2604, and AAMA 2603 requirements. Please consult [www.greenheck.com](http://www.greenheck.com) for complete information on standard and extended paint warranties. Paint finish warranties are not applicable to steel products.



**STANDARD FEATURES**

STANDARD FEATURES

1. L.V. BUSHING
2. H.V. BUSHING
3. TANK WITH WELDED-ON COVER
4. HANDHOLE
5. COOLING PANELS
6. GAS SAMPLING VALVE
7. PRESSURE VACUUM GAUGE
8. PRESSURE RELIEF VALVE
9. 1" FILL PLUG AND FILTER PRESS CONNECTION
10. STAINLESS STEEL NAMEPLATE AND CONNECTION DIAGRAM
11. LIQUID LEVEL GAUGE
12. DIAL-TYPE THERMOMETER
13. DE-ENERGIZED TAPCHANGER
14. 1" DRAIN VALVE WITH 3/8" SAMPLING DEVICE
15. BASE SUITABLE FOR JACKING, SKIDDING, OR ROLLING
16. NEMA GROUND PAD



KVA	Fluid	Cond	HV BIL	LV BIL	WD	LG	A	B	C	D	E	F	Gal Liquid	Weight
10000	O	C	250	150	48	95	111	113	138	TBD	132	82	1530	37597













**Figure B.3 Catalogue Dimensions (inches) of Substation Transformer, Obtained from Magna Electric Corporation.**

# Appendix C

## Noise Map from CADNA-A





-  Sub Substation Transformer
-  Inv# Inverter Unit
-  # Noise Receptor
-  # Representative Noise Receptor
-  From 40 to 45 dBA
-  From 45 to 50 dBA
-  From 50 to 55 dBA
-  From 55 to 60 dBA
-  Over 60 dBA
-  Project Site
-  Parcel
-  PR## Parcel ID

Axio Power  
Canada  
Inc./SunEdison  
Canada

Kingston Gardiner Hwy 2  
South – Solar Energy  
Project – Noise Map at  
4.5m

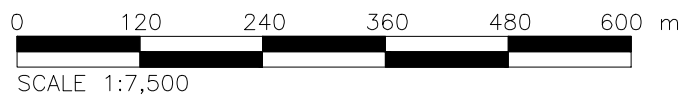















Figure C.1







-  Sub Substation Transformer
-  Inv# Inverter Unit
-  # Noise Receptor
-  # Representative Noise Receptor
-  30m Radius Circle around Noise Receptor
-  From 40 to 45 dBA
-  From 45 to 50 dBA
-  From 50 to 55 dBA
-  From 55 to 60 dBA
-  Over 60 dBA
-  Project Site
-  Parcel
-  PR## Parcel ID

Axio Power  
Canada  
Inc./SunEdison  
Canada

Kingston Gardiner Hwy 2  
South – Solar Energy  
Project – Noise Map at  
1.5m

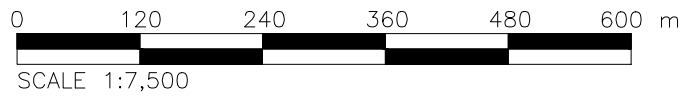


Figure C.2





# Appendix D

## CADNA-A Sample Calculations

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (m)	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (m)	1000.00
Min. Length of Section (m)	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	0.00
Night-time Penalty (dB)	0.00
DTM	
Standard Height (m)	3.50
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	1
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	
	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (°C)	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (m/s)	3.0
Roads (RLS-90)	
Strictly acc. to RLS-90	
Railways (Schall 03)	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receiver  
 Name: Existing  
 ID: 1.0  
 X: 366773.21  
 Y: 4903320.07  
 Z: 134.50

Point Source, ISO 9613, Name: "Sub", ID: "Sub"

Nr.	X (m)	Y (m)	Z (m)	Refl.	Freq. (Hz)	LxT dB(A)	LxN dB(A)	K0 (dB)	Dc (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	LrT dB(A)	LrN dB(A)
1	366634.21	4903391.76	133.00	0	32	48.0	48.0	0.0	0.0	54.9	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	-3.9	-3.9
2	366634.21	4903391.76	133.00	0	63	67.2	67.2	0.0	0.0	54.9	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	15.3	15.3
3	366634.21	4903391.76	133.00	0	125	79.3	79.3	0.0	0.0	54.9	0.1	2.4	0.0	0.0	0.0	0.0	-0.0	21.9	21.9
4	366634.21	4903391.76	133.00	0	250	81.8	81.8	0.0	0.0	54.9	0.2	2.6	0.0	0.0	0.0	0.0	-0.0	24.2	24.2
5	366634.21	4903391.76	133.00	0	500	87.2	87.2	0.0	0.0	54.9	0.3	-0.8	0.0	0.0	0.0	0.0	-0.0	32.8	32.8
6	366634.21	4903391.76	133.00	0	1000	84.4	84.4	0.0	0.0	54.9	0.6	-0.9	0.0	0.0	0.0	0.0	-0.0	29.8	29.8
7	366634.21	4903391.76	133.00	0	2000	80.6	80.6	0.0	0.0	54.9	1.5	-0.9	0.0	0.0	0.0	0.0	-0.0	25.1	25.1
8	366634.21	4903391.76	133.00	0	4000	75.4	75.4	0.0	0.0	54.9	5.1	-0.9	0.0	0.0	0.0	0.0	-0.0	16.3	16.3
9	366634.21	4903391.76	133.00	0	8000	66.3	66.3	0.0	0.0	54.9	18.3	-0.9	0.0	0.0	0.0	0.0	-0.0	-6.0	-6.0

Point Source, ISO 9613, Name: "Inv1", ID: "Inv1"

Nr.	X (m)	Y (m)	Z (m)	Refl.	Freq. (Hz)	LxT dB(A)	LxN dB(A)	K0 (dB)	Dc (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	LrT dB(A)	LrN dB(A)
1	366526.42	4903225.77	132.80	0	63	59.8	59.8	0.0	0.0	59.4	0.0	-3.3	0.0	0.0	0.0	0.0	-0.0	3.6	3.6
2	366526.42	4903225.77	132.80	0	125	73.9	73.9	0.0	0.0	59.4	0.1	3.0	0.0	0.0	0.0	0.0	-0.0	11.4	11.4
3	366526.42	4903225.77	132.80	0	250	86.0	86.0	0.0	0.0	59.4	0.3	2.0	0.0	0.0	0.0	0.0	-0.0	24.3	24.3
4	366526.42	4903225.77	132.80	0	500	80.6	80.6	0.0	0.0	59.4	0.5	-1.0	0.0	0.0	0.0	0.0	-0.0	21.6	21.6
5	366526.42	4903225.77	132.80	0	1000	72.1	72.1	0.0	0.0	59.4	1.0	-1.0	0.0	0.0	0.0	0.0	-0.0	12.7	12.7
6	366526.42	4903225.77	132.80	0	2000	74.6	74.6	0.0	0.0	59.4	2.5	-1.0	0.0	0.0	0.0	0.0	-0.0	13.6	13.6
7	366526.42	4903225.77	132.80	0	4000	84.9	84.9	0.0	0.0	59.4	8.7	-1.0	0.0	0.0	0.0	0.0	-0.0	17.8	17.8
8	366526.42	4903225.77	132.80	0	8000	70.4	70.4	0.0	0.0	59.4	30.9	-1.0	0.0	0.0	0.0	0.0	-0.0	-18.9	-18.9

Point Source, ISO 9613, Name: "Inv2", ID: "Inv2"

Nr.	X (m)	Y (m)	Z (m)	Refl.	Freq. (Hz)	LxT dB(A)	LxN dB(A)	K0 (dB)	Dc (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	LrT dB(A)	LrN dB(A)
1	366676.93	4903239.06	133.38	0	63	59.8	59.8	0.0	0.0	53.0	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	9.8	9.8
2	366676.93	4903239.06	133.38	0	125	73.9	73.9	0.0	0.0	53.0	0.1	2.5	0.0	0.0	0.0	0.0	-0.0	18.3	18.3
3	366676.93	4903239.06	133.38	0	250	86.0	86.0	0.0	0.0	53.0	0.1	1.8	0.0	0.0	0.0	0.0	-0.0	31.0	31.0
4	366676.93	4903239.06	133.38	0	500	80.6	80.6	0.0	0.0	53.0	0.2	-0.9	0.0	0.0	0.0	0.0	-0.0	28.2	28.2
5	366676.93	4903239.06	133.38	0	1000	72.1	72.1	0.0	0.0	53.0	0.5	-0.9	0.0	0.0	0.0	0.0	-0.0	19.5	19.5
6	366676.93	4903239.06	133.38	0	2000	74.6	74.6	0.0	0.0	53.0	1.2	-0.9	0.0	0.0	0.0	0.0	-0.0	21.3	21.3
7	366676.93	4903239.06	133.38	0	4000	84.9	84.9	0.0	0.0	53.0	4.1	-0.9	0.0	0.0	0.0	0.0	-0.0	28.7	28.7
8	366676.93	4903239.06	133.38	0	8000	70.4	70.4	0.0	0.0	53.0	14.7	-0.9	0.0	0.0	0.0	0.0	-0.0	3.6	3.6

Point Source, ISO 9613, Name: "Inv3", ID: "Inv3"

Nr.	X (m)	Y (m)	Z (m)	Refl.	Freq. (Hz)	LxT dB(A)	LxN dB(A)	K0 (dB)	Dc (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	LrT dB(A)	LrN dB(A)
1	366583.72	4903091.36	131.93	0	63	59.8	59.8	0.0	0.0	60.5	0.0	-3.6	0.0	0.0	0.0	0.0	-0.0	2.9	2.9
2	366583.72	4903091.36	131.93	0	125	73.9	73.9	0.0	0.0	60.5	0.1	3.0	0.0	0.0	0.0	0.0	-0.0	10.3	10.3
3	366583.72	4903091.36	131.93	0	250	86.0	86.0	0.0	0.0	60.5	0.3	1.9	0.0	0.0	0.0	0.0	-0.0	23.3	23.3
4	366583.72	4903091.36	131.93	0	500	80.6	80.6	0.0	0.0	60.5	0.6	-1.0	0.0	0.0	0.0	0.0	-0.0	20.6	20.6
5	366583.72	4903091.36	131.93	0	1000	72.1	72.1	0.0	0.0	60.5	1.1	-1.1	0.0	0.0	0.0	0.0	-0.0	11.6	11.6
6	366583.72	4903091.36	131.93	0	2000	74.6	74.6	0.0	0.0	60.5	2.9	-1.1	0.0	0.0	0.0	0.0	-0.0	12.4	12.4
7	366583.72	4903091.36	131.93	0	4000	84.9	84.9	0.0	0.0	60.5	9.7	-1.1	0.0	0.0	0.0	0.0	-0.0	15.8	15.8
8	366583.72	4903091.36	131.93	0	8000	70.4	70.4	0.0	0.0	60.5	34.7	-1.1	0.0	0.0	0.0	0.0	-0.0	-23.7	-23.7

Point Source, ISO 9613, Name: "Inv4", ID: "Inv4"

Nr.	X (m)	Y (m)	Z (m)	Refl.	Freq. (Hz)	LxT dB(A)	LxN dB(A)	K0 (dB)	Dc (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	LrT dB(A)	LrN dB(A)
1	366732.84	4903104.97	132.26	0	63	59.8	59.8	0.0	0.0	57.8	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	5.0	5.0
2	366732.84	4903104.97	132.26	0	125	73.9	73.9	0.0	0.0	57.8	0.1	2.9	0.0	0.0	0.0	0.0	-0.0	13.1	13.1
3	366732.84	4903104.97	132.26	0	250	86.0	86.0	0.0	0.0	57.8	0.2	2.0	0.0	0.0	0.0	0.0	-0.0	25.9	25.9
4	366732.84	4903104.97	132.26	0	500	80.6	80.6	0.0	0.0	57.8	0.4	-0.9	0.0	0.0	0.0	0.0	-0.0	23.2	23.2

Point Source, ISO 9613, Name: "Inv4", ID: "Inv4"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
5	366732.84	4903104.97	132.26	0	1000	72.1	72.1	0.0	0.0	57.8	0.8	-0.9	0.0	0.0	0.0	0.0	-0.0	14.4	14.4
6	366732.84	4903104.97	132.26	0	2000	74.6	74.6	0.0	0.0	57.8	2.1	-0.9	0.0	0.0	0.0	0.0	-0.0	15.6	15.6
7	366732.84	4903104.97	132.26	0	4000	84.9	84.9	0.0	0.0	57.8	7.2	-0.9	0.0	0.0	0.0	0.0	-0.0	20.8	20.8
8	366732.84	4903104.97	132.26	0	8000	70.4	70.4	0.0	0.0	57.8	25.6	-0.9	0.0	0.0	0.0	0.0	-0.0	-12.1	-12.1

Point Source, ISO 9613, Name: "Inv5", ID: "Inv5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	366638.51	4902958.14	131.05	0	63	59.8	59.8	0.0	0.0	62.7	0.1	-4.1	0.0	0.0	0.0	0.0	-0.0	1.2	1.2
2	366638.51	4902958.14	131.05	0	125	73.9	73.9	0.0	0.0	62.7	0.2	3.1	0.0	0.0	0.0	0.0	-0.0	7.9	7.9
3	366638.51	4902958.14	131.05	0	250	86.0	86.0	0.0	0.0	62.7	0.4	1.7	0.0	0.0	0.0	0.0	-0.0	21.1	21.1
4	366638.51	4902958.14	131.05	0	500	80.6	80.6	0.0	0.0	62.7	0.7	-1.2	0.0	0.0	0.0	0.0	-0.0	18.3	18.3
5	366638.51	4902958.14	131.05	0	1000	72.1	72.1	0.0	0.0	62.7	1.4	-1.2	0.0	0.0	0.0	0.0	-0.0	9.2	9.2
6	366638.51	4902958.14	131.05	0	2000	74.6	74.6	0.0	0.0	62.7	3.7	-1.2	0.0	0.0	0.0	0.0	-0.0	9.4	9.4
7	366638.51	4902958.14	131.05	0	4000	84.9	84.9	0.0	0.0	62.7	12.7	-1.2	0.0	0.0	0.0	0.0	-0.0	10.8	10.8
8	366638.51	4902958.14	131.05	0	8000	70.4	70.4	0.0	0.0	62.7	45.1	-1.2	0.0	0.0	0.0	0.0	-0.0	-36.2	-36.2

Point Source, ISO 9613, Name: "Inv6", ID: "Inv6"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	366788.51	4902971.99	131.06	0	63	59.8	59.8	0.0	0.0	61.8	0.0	-3.9	0.0	0.0	0.0	0.0	-0.0	1.9	1.9
2	366788.51	4902971.99	131.06	0	125	73.9	73.9	0.0	0.0	61.8	0.1	3.0	0.0	0.0	0.0	0.0	-0.0	8.9	8.9
3	366788.51	4902971.99	131.06	0	250	86.0	86.0	0.0	0.0	61.8	0.4	1.8	0.0	0.0	0.0	0.0	-0.0	22.0	22.0
4	366788.51	4902971.99	131.06	0	500	80.6	80.6	0.0	0.0	61.8	0.7	-1.1	0.0	0.0	0.0	0.0	-0.0	19.2	19.2
5	366788.51	4902971.99	131.06	0	1000	72.1	72.1	0.0	0.0	61.8	1.3	-1.2	0.0	0.0	0.0	0.0	-0.0	10.2	10.2
6	366788.51	4902971.99	131.06	0	2000	74.6	74.6	0.0	0.0	61.8	3.4	-1.2	0.0	0.0	0.0	0.0	-0.0	10.6	10.6
7	366788.51	4902971.99	131.06	0	4000	84.9	84.9	0.0	0.0	61.8	11.4	-1.2	0.0	0.0	0.0	0.0	-0.0	12.8	12.8
8	366788.51	4902971.99	131.06	0	8000	70.4	70.4	0.0	0.0	61.8	40.7	-1.2	0.0	0.0	0.0	0.0	-0.0	-31.0	-31.0

Point Source, ISO 9613, Name: "Inv7", ID: "Inv7"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	366694.57	4902824.65	129.90	0	63	59.8	59.8	0.0	0.0	65.0	0.1	-4.6	0.0	0.0	0.0	0.0	-0.0	-0.7	-0.7
2	366694.57	4902824.65	129.90	0	125	73.9	73.9	0.0	0.0	65.0	0.2	3.3	0.0	0.0	0.0	0.0	-0.0	5.4	5.4
3	366694.57	4902824.65	129.90	0	250	86.0	86.0	0.0	0.0	65.0	0.5	1.6	0.0	0.0	0.0	0.0	-0.0	18.9	18.9
4	366694.57	4902824.65	129.90	0	500	80.6	80.6	0.0	0.0	65.0	1.0	-1.3	0.0	0.0	0.0	0.0	-0.0	16.0	16.0
5	366694.57	4902824.65	129.90	0	1000	72.1	72.1	0.0	0.0	65.0	1.8	-1.4	0.0	0.0	0.0	0.0	-0.0	6.6	6.6
6	366694.57	4902824.65	129.90	0	2000	74.6	74.6	0.0	0.0	65.0	4.8	-1.4	0.0	0.0	0.0	0.0	-0.0	6.1	6.1
7	366694.57	4902824.65	129.90	0	4000	84.9	84.9	0.0	0.0	65.0	16.4	-1.4	0.0	0.0	0.0	0.0	-0.0	4.8	4.8
8	366694.57	4902824.65	129.90	0	8000	70.4	70.4	0.0	0.0	65.0	58.6	-1.4	0.0	0.0	0.0	0.0	-0.0	-51.9	-51.9

Point Source, ISO 9613, Name: "Inv8", ID: "Inv8"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	366844.48	4902838.54	129.83	0	63	59.8	59.8	0.0	0.0	64.8	0.1	-4.5	0.0	0.0	0.0	0.0	-0.0	-0.5	-0.5
2	366844.48	4902838.54	129.83	0	125	73.9	73.9	0.0	0.0	64.8	0.2	3.2	0.0	0.0	0.0	0.0	-0.0	5.7	5.7
3	366844.48	4902838.54	129.83	0	250	86.0	86.0	0.0	0.0	64.8	0.5	1.6	0.0	0.0	0.0	0.0	-0.0	19.1	19.1
4	366844.48	4902838.54	129.83	0	500	80.6	80.6	0.0	0.0	64.8	0.9	-1.3	0.0	0.0	0.0	0.0	-0.0	16.2	16.2
5	366844.48	4902838.54	129.83	0	1000	72.1	72.1	0.0	0.0	64.8	1.8	-1.4	0.0	0.0	0.0	0.0	-0.0	6.9	6.9
6	366844.48	4902838.54	129.83	0	2000	74.6	74.6	0.0	0.0	64.8	4.7	-1.4	0.0	0.0	0.0	0.0	-0.0	6.5	6.5
7	366844.48	4902838.54	129.83	0	4000	84.9	84.9	0.0	0.0	64.8	16.0	-1.4	0.0	0.0	0.0	0.0	-0.0	5.6	5.6
8	366844.48	4902838.54	129.83	0	8000	70.4	70.4	0.0	0.0	64.8	56.9	-1.4	0.0	0.0	0.0	0.0	-0.0	-49.9	-49.9

Point Source, ISO 9613, Name: "Inv9", ID: "Inv9"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	366750.93	4902691.77	128.75	0	63	59.8	59.8	0.0	0.0	67.0	0.1	-4.8	0.0	0.0	0.0	0.0	-0.0	-2.4	-2.4
2	366750.93	4902691.77	128.75	0	125	73.9	73.9	0.0	0.0	67.0	0.3	3.5	0.0	0.0	0.0	0.0	-0.0	3.2	3.2
3	366750.93	4902691.77	128.75	0	250	86.0	86.0	0.0	0.0	67.0	0.7	1.5	0.0	0.0	0.0	0.0	-0.0	16.9	16.9
4	366750.93	4902691.77	128.75	0	500	80.6	80.6	0.0	0.0	67.0	1.2	-1.4	0.0	0.0	0.0	0.0	-0.0	13.8	13.8
5	366750.93	4902691.77	128.75	0	1000	72.1	72.1	0.0	0.0	67.0	2.3	-1.5	0.0	0.0	0.0	0.0	-0.0	4.3	4.3
6	366750.93	4902691.77	128.75	0	2000	74.6	74.6	0.0	0.0	67.0	6.1	-1.5	0.0	0.0	0.0	0.0	-0.0	3.0	3.0
7	366750.93	4902691.77	128.75	0	4000	84.9	84.9	0.0	0.0	67.0	20.6	-1.5	0.0	0.0	0.0	0.0	-0.0	-1.2	-1.2



Point Source, ISO 9613, Name: "Inv9", ID: "Inv9"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
8	366750.93	4902691.77	128.75	0	8000	70.4	70.4	0.0	0.0	67.0	73.5	-1.5	0.0	0.0	0.0	0.0	-0.0	-68.6	-68.6

Point Source, ISO 9613, Name: "Inv10", ID: "Inv10"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	366900.68	4902704.83	128.59	0	63	59.8	59.8	0.0	0.0	67.0	0.1	-4.8	0.0	0.0	0.0	0.0	-0.0	-2.4	-2.4
2	366900.68	4902704.83	128.59	0	125	73.9	73.9	0.0	0.0	67.0	0.3	3.5	0.0	0.0	0.0	0.0	-0.0	3.2	3.2
3	366900.68	4902704.83	128.59	0	250	86.0	86.0	0.0	0.0	67.0	0.7	1.5	0.0	0.0	0.0	0.0	-0.0	16.9	16.9
4	366900.68	4902704.83	128.59	0	500	80.6	80.6	0.0	0.0	67.0	1.2	-1.4	0.0	0.0	0.0	0.0	-0.0	13.9	13.9
5	366900.68	4902704.83	128.59	0	1000	72.1	72.1	0.0	0.0	67.0	2.3	-1.5	0.0	0.0	0.0	0.0	-0.0	4.3	4.3
6	366900.68	4902704.83	128.59	0	2000	74.6	74.6	0.0	0.0	67.0	6.1	-1.5	0.0	0.0	0.0	0.0	-0.0	3.0	3.0
7	366900.68	4902704.83	128.59	0	4000	84.9	84.9	0.0	0.0	67.0	20.6	-1.5	0.0	0.0	0.0	0.0	-0.0	-1.2	-1.2
8	366900.68	4902704.83	128.59	0	8000	70.4	70.4	0.0	0.0	67.0	73.4	-1.5	0.0	0.0	0.0	0.0	-0.0	-68.5	-68.5



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**SunE Westbrook Solar Farm**  
**Acoustic Assessment Report**  
**March, 2012**

Prepared for:  
SunEdison Canada, LLC  
595 Adelaide Street East, Suite 400  
Toronto, ON M5A 1N8

Prepared by:  
GENIVAR Inc.  
600 Cochrane Drive, 5<sup>th</sup> Floor  
Markham, Ontario L3R 5K3

Project No. 111-18734-00



Project No. 111-18734-00

March 01, 2012

Robert Miller  
SunEdison Canada, LLC  
945 Princess Street  
Kingston, ON K7L 3N6

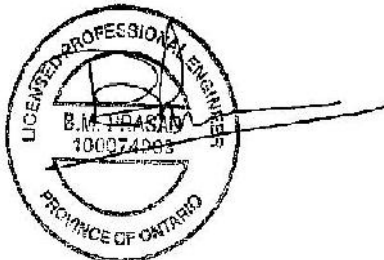
**Re: SunE Westbrook Solar Farm  
Draft Acoustic Assessment Report**

Dear Mr. Miller:

Please find, attached, a copy of Acoustic Assessment Report carried out for the SunE Westbrook Solar Farm to be located in the area of Westbrook, north of the City of Kingston, Ontario.

If you have any question, please, feel free to call me at 905-475-7270 ext. 18384 or email me at [bhuwan.prasad@genivar.com](mailto:bhuwan.prasad@genivar.com).

Yours truly,  
**GENIVAR Inc.**



Bhuwan M. Prasad, P. Eng.  
Environmental Engineer

/bp



## Executive Summary

GENIVAR Inc. (GENIVAR) was retained by SunEdison to prepare an acoustic assessment report for the SunE Westbrook Solar Farm with an installed capacity of 10 MW to be located in the area of Westbrook, north of the City of Kingston, Ontario in support of the Renewable Energy Approval (REA) application under Ontario Regulation 359/09 (O.Reg.359/09) of the Environmental Protection Act.

According to the project classification scheme outlined in Part II (Classes of Renewable Energy Generation Facilities); Section 4 of O. Reg. 359/09 the SunE Westbrook solar farm is categorized as a Class 3 solar facility. This acoustic assessment report has been prepared in accordance with Appendix A of the publication of the Ontario Ministry of the Environment entitled, “Basic Comprehensive Certificates of Approval (Air) – User Guide”, dated April 2004 and subsequent amendments.

The noise analysis was conducted using the CadnaA (Computer Aided Noise Abatement) 3-D acoustical modelling software V4.2 to predict the noise levels at the points of reception, within one (1) km distance around the site boundary in each direction, with all noise sources operating at full load simultaneously. CadnaA is based on ISO Standard 9613-2 “*Acoustics - Attenuation of Sound During Propagation Outdoors – Part 2: General Method of Calculation*”. The applicable sound level limits for this Facility are considered to be the exclusionary minimum sound levels for Class 3 areas (45 dBA for daytime and 40 dBA for evening & nighttime).

Based on the results obtained in this noise study, the environmental noise produced by the proposed SunE Westbrook Solar Farm would be well below the applicable MOE noise guidelines at all Points of Reception.

## Table of Contents

Transmittal Letter  
Table of Contents

1.	INTRODUCTION .....	1
1.1	Report Objectives .....	1
1.2	Project Location .....	1
2.	FACILITY DESCRIPTION .....	2
3.	NOISE SOURCE SUMMARY .....	2
3.1	Inverter Huts .....	2
3.1.1	Inverters .....	3
3.1.2	Transformers .....	3
3.2	Substation Transformer .....	3
4.	POINTS OF RECEPTION SUMMARY .....	3
5.	ASSESSMENT CRITERIA (PERFORMANCE LIMITS).....	4
6.	IMPACT ASSESSMENT .....	4
7.	CONCLUSIONS .....	6

### List of Figures

Figure 1	Westbrook Solar Noise Impact Graphics in dBA for Daytime Scenario .....	5
Figure 2	Westbrook Solar Noise Impact Graphics in dBA for Nighttime Scenario .....	6

### List of Tables

Table 1	Noise Source Sound Levels
Table 2	Noise Source Summary Table
Table 3	Point of Reception Noise Impact Table
Table 4	Acoustic Assessment Summary Table

### Appendices

Appendix A	Site Location Map
Appendix B	Zoning / Land-Use Information
Appendix C	Satcon 500 kW Inverter Datasheets
Appendix D	Inverter Sound Level Testing
Appendix E	Transformer Noise NEMA Ratings
Appendix F	CadnaA Configuration Settings & Output from Receiver R15
Appendix G	CadnaA Electronic Modeling Files

# 1. Introduction

SunEdison Canada (SunEdison), through its wholly owned subsidiary, SunE Westbrook LP, is proposing a single Class 3 Solar Facility with a nameplate capacity of 10 MW (AC) in the area of Westbrook, north of the City of Kingston, Ontario. If approved, this facility will convert solar energy into electricity to be fed into the Hydro One distribution grid. The defined study area is presented as Figure 1 in Appendix A, covering approximately 70 hectares (ha). Noise sources include inverters and transformers, with 22 Points of Reception identified as sensitive receptors, and 19 Points of Reception as vacant lots (total of 41 Points of Reception) within one km distance around the site boundary in each direction, for assessment.

SunEdison is a global leader in solar energy generation with a current operating portfolio of more than 350 facilities generating over a combined 120 Megawatts (MW) of solar power across the globe. Active Ontario solar farms currently owned and operated by SunEdison include First Light 1 (9.1 MW) located in Stone Mills, north of Napanee, Norfolk I and II (18 MW combined) located in Norfolk County and Erie Ridge (9.3 MW) in Ridgeway, Chatham-Kent.

Subject to receiving all approvals, the preliminary schedule anticipates that full commercial operation of the SunE Westbrook Solar Farm will be achieved by the end of 2012. The project has received a 20-year FIT contract from the Ontario Power Authority to sell the generated electricity to the Ontario electricity grid. As such, the project is anticipated to operate until at least 2032, at which time it may continue to generate electricity or the site may be decommissioned and the land returned to its former vacant use.

## 1.1 Report Objectives

GENIVAR Inc. (GENIVAR) was retained by SunEdison to prepare this acoustic assessment report in support of the Renewable Energy Approval (REA) application for the SunE Westbrook Solar Farm in Westbrook, north of the City of Kingston, Ontario.

Ontario Regulation 359/09 (O. Reg. 359/09) of the Environmental Protection Act received Royal Assent on September 24, 2009 and was filed and came into force on October 1, 2009. O. Reg. 359/09 contains the current requirements for approval of a renewable energy project under the REA process. According to the project classification scheme outlined in Part II (Classes of Renewable Energy Generation Facilities); Section 4 of O. Reg. 359/09 the SunE Westbrook solar farm is categorized as a Class 3 solar facility. A Class 3 solar facility is defined as a facility of solar panels situated at any location other than mounted on the roof or wall of a building with a name plate capacity greater than 12 kW.

As required by O. Reg. 359/09 for a Class 3 solar facility, this noise study report has been prepared in accordance with Appendix A of the publication of the Ministry of the Environment entitled, "Basic Comprehensive Certificates of Approval (Air) – User Guide", dated April 2004 and subsequent amendments.

## 1.2 Project Location

The project is located on Concession 5, north of the City of Kingston. The area is generally bounded by:

- Westbrook Road to the east
- Glenvale Creek along the west

The following coordinates (in UTM NAD 83, Zone 18N coordinate system) define the extremities of the Study Area for the project:

- North-west: Easting 369472 Northing 4907093
- North-east: Easting 369960 Northing 4907118
- South-east: Easting 369994 Northing 4906058
- South-west: Easting 369180 Northing 4906030

The solar farm will be located on privately owned land which has A2 agricultural zoning. The electrical substation of the project will also be located on site. One overhead electrical connection line will run south within the Westbrook Road right-of-way to connect to the existing Hydro One distribution line running east-west along Princess Street.

The noise sources and receptors are shown on Figure 1 in Appendix A and the zoning / land-use information is provided in Appendix B.

## 2. Facility Description

The Facility will consist of solar modules, inverters, transformers and other ancillary equipment to convert solar energy into electricity (equipment list provided in Appendix C). The modules will be held by a single-axis tracking system which is supported off the ground by vertical posts. The major components of the proposed project are as follows:

- Approximately 40,000 x MEMC solar modules (260 to 300-watt generation capacity)
- Approximately 320 disconnect combiners
- 44 kV Substation including pole-top motor-operated disconnect, 44kV switchgear, 10 MVA oil filled pad-mount transformer, interrupter switches, communication equipment, etc.
- 10 inverter huts, each inverter hut consisting of two 500-kW inverters within an enclosure (or a house) and one corresponding 1000 kVA transformer located outside the enclosure.

The Facility will operate 24 hours per day and 7 days per week to convert sunlight into electricity whenever solar energy is available. During daylight hours, the facility will convert the available energy from the sun's rays into electricity to be transmitted to the Hydro One grid.

In the absence of sunlight, no electricity generation will take place. This scenario is found at nighttime after sunset, and under these conditions the inverters are not operating and therefore not producing any noise. The medium-voltage transformers are energized from the energy generation process during hours or sunlight, and therefore continue to generate some magnetostrictive noise at reduced levels during the evening, even without the cooling fans in operation.

## 3. Noise Source Summary

The main sources of noise associated with the Project will be the inverter huts (each hut containing two inverters and one medium-voltage transformer) and the substation containing the main step-up transformer installed on a concrete pad.

Switch gear and a small step-down transformer meant for lighting within the substation are insignificant sources of noise in comparison to above sources. The trackers operate using small motors and only emit noise when moving the panels. This noise is not significant and the motors have not been considered as sources of noise.

### 3.1 Inverter Huts

The facility will have ten (10) inverter huts, each consisting of a set of two (2) 500 kW inverters and an associated 1 MVA transformer contained within a sound dampening enclosure. Based on the inverter design (Appendix C), each inverter hut has been considered to have two noise components: (a) two (2) 500 kW inverters in an enclosure and (b) 1 MVA transformer located outside of the inverter enclosure (descriptions of which are provided below).

The inverters and associated transformer in each hut are identified by unique identification numbers. For example, H1T is the transformer of Hut 1, while H1|1 and H1|2 are inverter 1 and inverter 2 respectively for Hut 1; H2T is the transformer of Hut 2, while H2|1 and H2|2 are inverter 1 and inverter 2 respectively for Hut 2; etc. The complete list of inverters and associated transformers can be found in Table 2.



### 3.1.1 Inverters

Noise data has been received for two different 500 kW Inverters: (a) Satcon, the inverters which mostly likely to be used in this facility as given in Appendix C and (b) Solaron as provided in Appendix D by Advanced Energy Industries (AEI). The inverter make and model has not been selected at this time, although it is anticipated that Satcon inverters will be used.

The overall noise level of the Solaron inverter, given in the third-octave band frequency, is higher than that of the Satcon inverter. For modeling purposes and a more conservative estimate, the Solaron noise data has been used to assess the anticipated noise levels of this Project.

The third-octave spectrum noise data, provided for the Solaron 500 unit, Configuration 2 (similar input voltage level as Satcon), was converted into a full octave spectrum for modeling purposes.

The sound power levels include a 5 dB tonal penalty per MOE publication NPC-104 as the MOE considers these sources to be tonal.

As the two inverters for each Hut are within an enclosure, on the advice of Ontario MOE, inverter enclosure attenuation has been applied to the overall sound power levels as per the values provided in Table 1.

### 3.1.2 Transformers

The sound power levels for the 1 MVA transformers were calculated in the same manner as for the substation transformer, details of which are given in Section 3.2 Substation Transformer below. The sound power levels include a 5 dB tonal penalty per MOE publication NPC-104 as the MOE considers these sources to be tonal.

## 3.2 Substation Transformer

The octave band sound power levels of the transformers are calculated using Equation 7-23 in “*Noise Control for Building and Manufacturing Plants*” report (provided in Appendix E; Reference 1) and National Electrical Manufacturers Association (NEMA) sound data for the transformers (Appendix E):

$$L_w = \text{NEMA Rating} + 10 \log A + C$$

Where, NEMA Rating = the A weighted sound level of the transformer  
A = the total surface area of the sidewall of the transformer in ft<sup>2</sup>  
C = octave band correction (Appendix C, Reference 1, Table 7-30)

The sound power levels include a 5 dB tonal penalty per MOE publication NPC-104 as the MOE considers these sources to be tonal.

An overall list of all noise sources of the Facility is shown in Table 2: Noise Source Summary Table, along with the corresponding coordinates as shown on Figure 1 (Appendix A). The height of the substation transformer is modeled as 2.5 metres, where as the heights of the inverters and inverter transformers are modeled as 1.8 metres above the ground so as to model them as point sources.

Two different scenarios have been modeled as per the details given below:

**Daytime Scenario:** When all the above equipment is in operation.

**Nighttime Scenario:** When all other equipment is in operation except inverters (i.e. only hut transformers and the substation transformer being in operation).

## 4. Points of Reception Summary

Forty one (41) Points of Reception (PORs) within a one (1) km distance around the site boundary in each direction were identified for this acoustic assessment as shown on Figure 1 (Appendix A).

With a recent aerial photo, land information and site shape files loaded into the GIS program, ArcMap, the noise receptors and vacant lots were determined by visual review of the composite map. Structures that were identified as potential occupied buildings/houses were plotted on the map as noise receptors. This data was stored and saved into the shapefile entitled, *Noise Receptors*. Once all the potential noise receptors were identified, any lots without noise receptor plots were marked with a vacant lot receptor. Each marker was plotted on the vacant lot where future development would most likely take place (i.e. near the existing road access to the lot). The vacant lot receptors were plotted and saved in a separate shapefile entitled, *Vacant Lots*.

The daytime POR noise impact for each receptor from each individual noise source is shown in Table 3 and includes the distance in metres from each source to each receptor and the sound level at each receptor (Leq in dBA). The nighttime POR noise impact from each individual noise source is not presented since the nighttime noise impacts follow the same trend but with lesser impacts.

To simulate a worst-case scenario, each receptor was set to a height of 4.5 m above ground representing an upper storey window of a two-storey structure since they are most exposed to elevated sources at the subject site and benefit least from ground absorption of sound.

## 5. Assessment Criteria (Performance Limits)

The solar farm will be located on privately owned land which has A2 agricultural zoning. Therefore, all PORs have been considered to be located in Class 3 rural areas to reflect the rural nature of the area.

In predicting the sound level at each POR due to the proposed solar farm, MOE publication NPC-232 requires the application of the principle of “predictable worst case” noise impact. The predictable worst case impact is defined as the largest noise excess produced by the facility over the applicable limit.

The background sound level is considered to be traffic noise and other sounds in the area excluding the sound from the facility under assessment. The sound level limit for the residential receptors in a Class 3 area can be described as follows:

*The energy averaged sound level (Leq) produced by a source at a receptor location in any one hour period should not exceed the greater of: the energy averaged background sound level in the same hour period, or 45 dBA in the daytime of 07:00 – 19:00, or 40 dBA in the evening period of 19:00 – 23:00 and 40 dBA in the nighttime period of 23:00 – 07:00.*

The applicable sound level limits for this Facility are considered to be the exclusionary minimum sound levels for Class 3 areas as follows:

<b>Time Period</b>	<b>Sound Level Limit for POR in Class 3 Area</b>
Daytime (07:00 – 19:00)	45 dBA
Evening (19:00 – 23:00)	40 dBA
Nighttime (23:00 – 07:00)	40 dBA

## 6. Impact Assessment

The noise analysis was conducted using the CadnaA (Computer Aided Noise Abatement) 3-D acoustical modelling software V4.2 to predict the noise levels at the Points of Reception with all noise sources operating at full load simultaneously and each noise source modelled as a point source. CadnaA is based on ISO Standard 9613-2 “Acoustics - Attenuation of Sound During Propagation Outdoors – Part 2: General Method of Calculation”. The CadnaA configuration settings are summarized in Appendix F.

The attenuation due to atmospheric absorption was based on the atmospheric coefficients for 10 °C temperature and 70% relative humidity. The Ground Attenuation value (G) was calculated using the “General” method in standard ISO 9613-2 (included in the CadnaA software), with a global value ground factor of G = 0.7 being used (this is based on MOE wind farm guidelines for rural areas). G = 1 was used

to model the porous soil nearby where the sound energy would be completely absorbed and  $G = 0$  to model for hard surfaces such as paved hard roads where sound energy would be reflected totally.

The predicted sound levels at the receptors for both daytime and nighttime scenarios are provided in Table 4: Acoustic Assessment Summary Table which indicates that the predicted noise levels for all identified PORs are in compliance with the respective performance limits. As a result, no mitigation is required.

Due to the nature of the noise sources, a vibration assessment is not required. The CadnaA noise modeling graphic output for the SunE Westbrook Solar Farm for daytime and nighttime scenarios are shown on Figure 1 and Figure 2, respectively.

It should be noted that the acoustic assessment carried out for this project is conservative since the Sound Power Level used for the Inverters (Advanced Energy Industries) is greater than that of the actual Inverters (Satcon) to be used for the project.

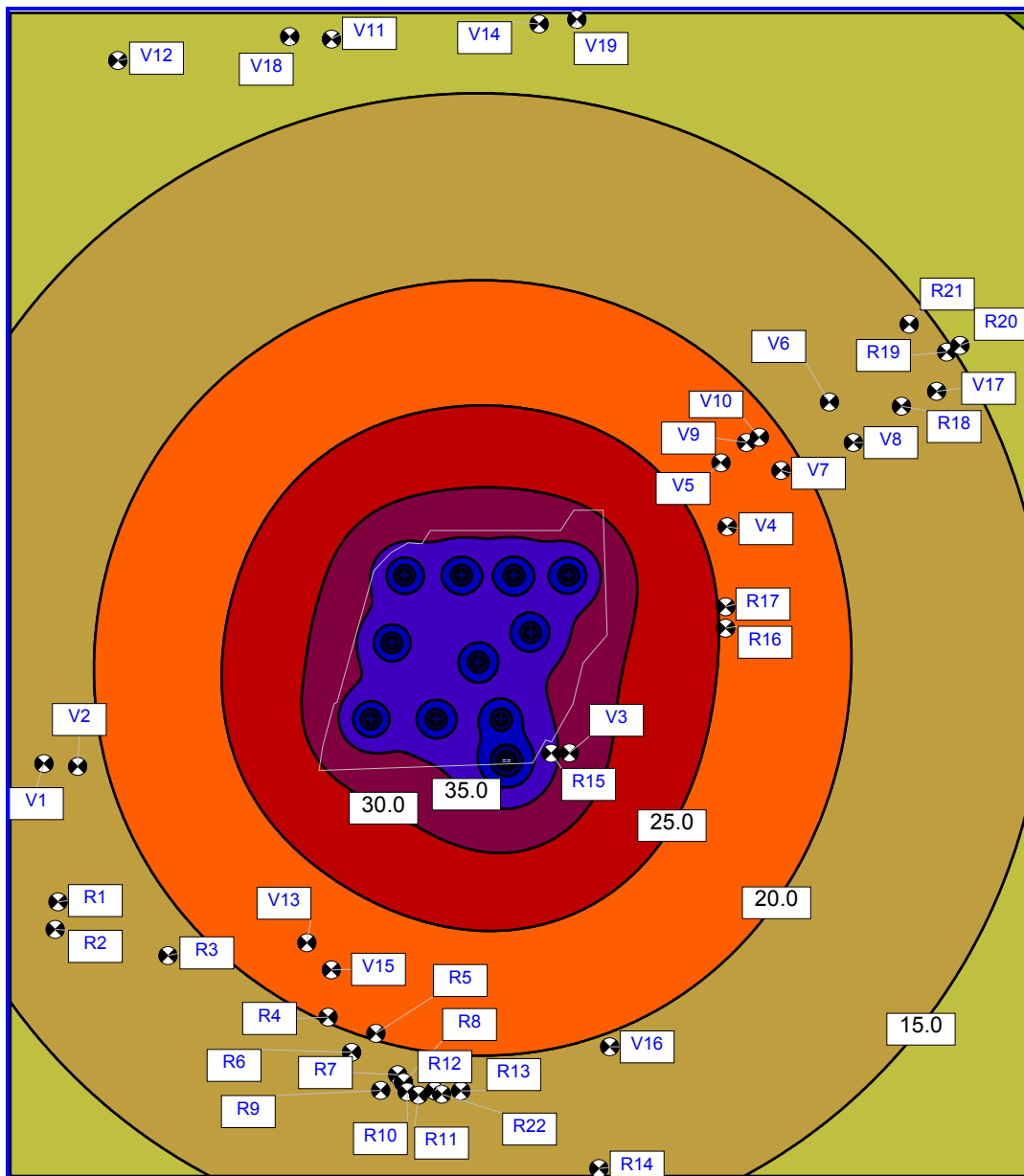


Figure 1 Westbrook Solar Noise Impact Graphics in dBA for Daytime Scenario

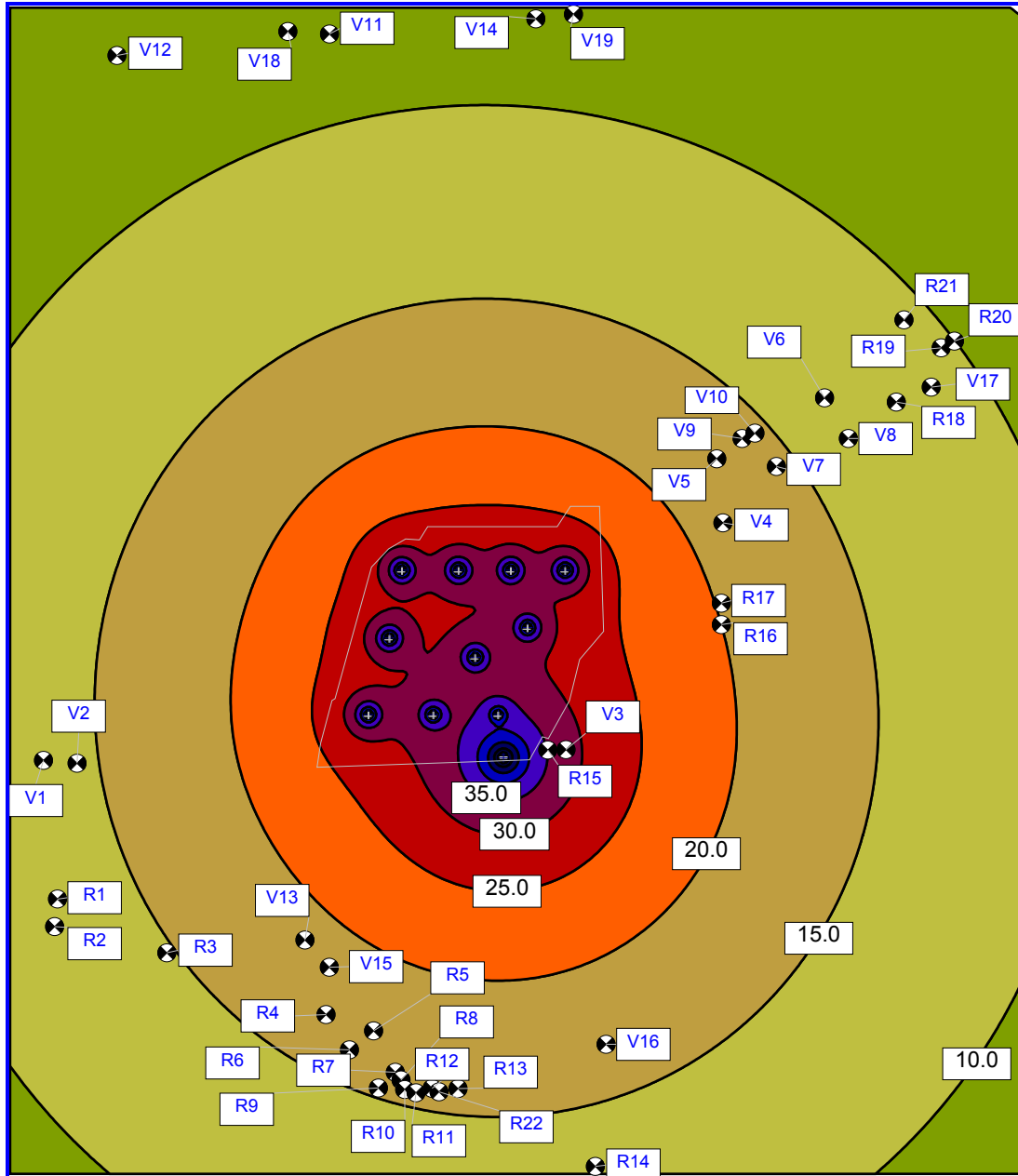


Figure 2 Westbrook Solar Noise Impact Graphics in dBA for Nighttime Scenario

## 7. Conclusions

For the proposed SunE Westbrook Solar Farm to be located in Westbrook, Ontario, a noise impact study has been carried out by GENIVAR. The study was carried out using CadnaA V4.2 to predict the noise levels at the Points of Reception (PORs), within a one (1) km distance around the site boundary in each direction, with all noise sources operating at full load simultaneously during the daytime scenario and only transformers (without inverters) operating at full load during the nighttime scenario. The applicable sound level limits for this Facility are considered to be the exclusionary minimum sound levels for Class 3 areas (45 dBA for daytime and 40 dBA for evening & nighttime). Based on the results presented in this report, it is concluded that the environmental noise produced by the proposed SunE Westbrook Solar Farm would be well below the applicable MOE noise guidelines at all PORs.

**Table 1: Solar Power Inverter and Transformer Sound Levels  
SunE Westbrook Solar Farm, Westbrook, Ontario**

<b>Inverter - AEI Solaron 500 - based on April 2010 test report (see Appendix D)</b>										
<b>Octave Band Centre Frequency ( Hz )</b>										
<b>Sound Description</b>	<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>	<b>Sum</b>	<b>Description</b>
AEI Solaron 500 PWL (dB)*	83.4	89.6	81.8	81.0	78.0	73.1	70.3	75.2	<b>91.9</b>	Appendix D, Table 1, Configuration 2
AEI Solaron 500 SPL (dB)	75.4	81.6	73.8	73.0	70.0	65.1	62.3	67.2	<b>83.9</b>	at 1 m
AEI Solaron 500 PWL (dBA)	57.2	73.5	73.2	77.8	78.0	74.3	71.3	74.1	<b>83.7</b>	less than 84 dBA from report
AEI Solaron 500 SPL (dBA)	49.2	65.5	65.2	69.8	70.0	66.3	63.3	66.1	<b>75.7</b>	at 1 m - close to other vendors
Tonal Penalty (dB)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		as per NPC-104
Inverter Total PWL (dB)	88.4	94.6	86.8	86.0	83.0	78.1	75.3	80.2	<b>96.9</b>	including Tonal Penalty
Inverters Enclosures Attenuation	5.0	6.0	7.0	7.0	8.0	8.0	7.0	7.0		

\* Each Octave bands have been normalised with its adjacent 1/3 octave sound power levels, for example, PWL for 63 Hz is log sum of PWLs of 50, 63 & 80 Hz

<b>Inverter transformer NEMA rating (dBA)</b>	58	(CSA C227.4-06, Table 5, 1,000 kVA)								
Area of four sides (ft <sup>2</sup> )	175	Based on Satcon Prism MVP1 Transformer								
<b>Octave Band Centre Frequency ( Hz )</b>										
<b>Sound Description</b>	<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>	<b>Sum</b>	<b>Description</b>
Inverter Transformer PWL (dB) 1,000 kVA	75.4	77.4	72.4	72.4	66.4	61.4	56.4	49.4	<b>81.2</b>	Ref. 1, Eq. 7-23 and Table 7-30, C <sub>1</sub> octave band corrections
PWL (dBA)	49.2	61.3	63.8	69.2	66.4	62.6	57.4	48.3	<b>72.8</b>	
SPL (dBA) at 1 m	41.2	53.3	55.8	61.2	58.4	54.6	49.4	40.3	<b>64.8</b>	
Transformer Total PWL (dB)	80.4	82.4	77.4	77.4	71.4	66.4	61.4	54.4	<b>86.2</b>	including Tonal Penalty

<b>Substation transformer NEMA rating (dBA)</b>	68	(CSA-C88-M90, Table 8, 10 MVA)								
Area of four sides (ft <sup>2</sup> )	251	Estimated based on ABB 3ph 5 MVA unit								
<b>Octave Band Centre Frequency ( Hz )</b>										
<b>Sound Description</b>	<b>63</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	<b>8000</b>	<b>Sum</b>	<b>Description</b>
Substation Transformer PWL (dB) 10,000 kVA	87.0	89.0	84.0	84.0	78.0	73.0	68.0	61.0	<b>92.8</b>	Ref. 1, Eq. 7-23 and Table 7-30, C <sub>3</sub> octave band corrections
PWL (dBA)	60.8	72.9	75.4	80.8	78.0	74.2	69.0	59.9	<b>84.4</b>	
SPL (dBA) at 1 m	52.8	64.9	67.4	72.8	70.0	66.2	61.0	51.9	<b>76.4</b>	
Transformer Total PWL (dB)	92.0	94.0	89.0	89.0	83.0	78.0	73.0	66.0	<b>97.8</b>	including Tonal Penalty

Reference 1: Noise Control for Buildings, Manufacturing Plants, Equipment and Products (19th printing, 2005)



**Table 2: Noise Source Summary Table**  
**SunE Westbrook Solar Farm, Westbrook, Ontario**

Source ID	Source Description	Sound Power Level	Coordinates		Height (m)	Daytime Source	Nighttime Source	Source Location	Source Characteristics	Noise Control Measures
		(dBA)	X (m)	Y (m)		Yes or No	Yes or No	(1)	(2)	(3)
H1T	Hut 1 Transformer	72.8	369688.2	4906177.7	1.8	Y	Y	O	S, T	U
H1I1	Hut 1 Inverter 1	83.7	369686.9	4906173.0	2.5	Y	N	O	S, T	E
H1I2	Hut 1 Inverter 2	83.7	369689.4	4906173.0	2.5	Y	N	O	S, T	E
H2T	Hut 2 Transformer	72.8	369506.4	4906177.7	1.8	Y	Y	O	S, T	U
H2I1	Hut 2 Inverter 1	83.7	369505.1	4906173.0	2.5	Y	N	O	S, T	E
H2I2	Hut 2 Inverter 2	83.7	369507.7	4906173.0	2.5	Y	N	O	S, T	E
H3T	Hut 3 Transformer	72.8	369324.7	4906177.7	1.8	Y	Y	O	S, T	U
H3I1	Hut 3 Inverter 1	83.7	369323.4	4906173.0	2.5	Y	N	O	S, T	E
H3I2	Hut 3 Inverter 2	83.7	369325.9	4906173.0	2.5	Y	N	O	S, T	E
H4T	Hut 4 Transformer	72.8	369418.6	4906582.7	1.8	Y	Y	O	S, T	U
H4I1	Hut 4 Inverter 1	83.7	369417.3	4906578.0	2.5	Y	N	O	S, T	E
H4I2	Hut 4 Inverter 2	83.7	369419.8	4906578.0	2.5	Y	N	O	S, T	E
H5T	Hut 5 Transformer	72.8	369876.0	4906582.7	1.8	Y	Y	O	S, T	U
H5I1	Hut 5 Inverter 1	83.7	369874.7	4906578.0	2.5	Y	N	O	S, T	E
H5I2	Hut 5 Inverter 2	83.7	369877.2	4906578.0	2.5	Y	N	O	S, T	E
H6T	Hut 6 Transformer	72.8	369770.5	4906421.7	1.8	Y	Y	O	S, T	U
H6I1	Hut 6 Inverter 1	83.7	369769.3	4906417.0	2.5	Y	N	O	S, T	E
H6I2	Hut 6 Inverter 2	83.7	369771.8	4906417.0	2.5	Y	N	O	S, T	E
H7T	Hut 7 Transformer	72.8	369723.6	4906582.7	1.8	Y	Y	O	S, T	U
H7I1	Hut 7 Inverter 1	83.7	369722.3	4906578.0	2.5	Y	N	O	S, T	E
H7I2	Hut 7 Inverter 2	83.7	369724.8	4906578.0	2.5	Y	N	O	S, T	E
H8T	Hut 8 Transformer	72.8	369577.1	4906582.7	1.8	Y	Y	O	S, T	U
H8I1	Hut 8 Inverter 1	83.7	369575.8	4906578.0	2.5	Y	N	O	S, T	E
H8I2	Hut 8 Inverter 2	83.7	369578.3	4906578.0	2.5	Y	N	O	S, T	E
H9T	Hut 9 Transformer	72.8	369383.4	4906392.4	1.8	Y	Y	O	S, T	U
H9I1	Hut 9 Inverter 1	83.7	369382.1	4906387.6	2.5	Y	N	O	S, T	E
H9I2	Hut 9 Inverter 2	83.7	369384.6	4906387.6	2.5	Y	N	O	S, T	E
H10T	Hut 10 Transformer	72.8	369623.8	4906338.7	1.8	Y	Y	O	S, T	U
H10I1	Hut 10 Inverter 1	83.7	369622.5	4906334.0	2.5	Y	N	O	S, T	E
H10I2	Hut 10 Inverter 2	83.7	369625.1	4906334.0	2.5	Y	N	O	S, T	E
ST	Substation Transformer	84.4	369702.9	4906057.0	2.5	Y	Y	O	S, T	U

Notes:

(1) Source Location:  
 O - located/installed outside the building, including on the roof  
 I - located/installed inside the building

(2) Sound Characteristics:  
 S - Steady  
 Q - Quasi Steady Impulsive  
 I - Impulsive  
 B - Buzzing  
 T - Tonal  
 C - Cyclic

(3)

Noise Control Measures:  
 S - silencer, acoustic louvre, muffler  
 A - acoustic lining, plenum  
 B - barrier, berm, screening  
 L - lagging  
 E - acoustic enclosure  
 O - other  
 U - uncontrolled

Table 3: Point of Reception Noise Impact (Daytime)  
SunE Westbrook Solar Farm, Westbrook, Ontario

Noise Source ID	Point of Reception R1		Point of Reception R2		Point of Reception R3		Point of Reception R4		Point of Reception R5		Point of Reception R6	
	Distance to R1 (m)	Sound Level at R1 (Leq) (dBA)	Distance to R2 (m)	Sound Level at R2 (Leq) (dBA)	Distance to R3 (m)	Sound Level at R3 (Leq) (dBA)	Distance to R4 (m)	Sound Level at R4 (Leq) (dBA)	Distance to R5 (m)	Sound Level at R5 (Leq) (dBA)	Distance to R6 (m)	Sound Level at R6 (Leq) (dBA)
H1T	1339.2	0.3	1377.8	<1	1144.0	2.1	969.7	3.9	953.0	4.1	1028.4	3.3
H1I1	1336.2	4.0	1374.6	3.6	1140.2	5.8	965.0	7.6	948.1	7.8	1023.5	7.0
H1I2	1338.6	3.9	1376.9	3.6	1142.2	5.7	966.3	7.6	949.1	7.8	1024.6	6.9
H2T	1173.7	1.8	1216.3	1.4	1002.1	3.6	893.3	4.8	902.3	4.7	969.0	3.9
H2I1	1170.5	5.5	1212.9	5.1	998.0	7.2	888.4	8.5	897.5	8.4	964.1	7.6
H2I2	1172.8	5.4	1215.1	5.0	999.9	7.2	889.3	8.5	897.9	8.4	964.7	7.6
H3T	1013.7	3.4	1061.5	2.9	875.1	5.0	849.5	5.4	886.7	4.9	941.5	4.2
H3I1	1010.2	7.1	1057.8	6.6	870.6	8.7	844.7	9.1	882.0	8.6	936.7	7.9
H3I2	1012.4	7.1	1059.9	6.6	872.3	8.7	845.0	9.0	882.0	8.6	936.8	7.9
H4T	1335.4	0.3	1395.0	<1	1259.3	1.0	1264.2	0.9	1294.1	0.7	1353.0	0.2
H4I1	1331.2	4.0	1390.8	3.5	1254.6	4.7	1259.3	4.6	1289.3	4.4	1348.2	3.8
H4I2	1333.0	4.0	1392.5	3.5	1256.0	4.7	1259.8	4.6	1289.5	4.4	1348.5	3.8
H5T	1695.8	<1	1745.2	<1	1548.5	<1	1415.0	<1	1398.9	<1	1474.7	<1
H5I1	1692.2	1.2	1741.5	0.8	1544.3	2.3	1410.3	3.3	1394.1	3.5	1469.9	2.8
H5I2	1694.3	1.2	1743.6	0.8	1546.2	2.2	1411.5	3.3	1395.0	3.5	1471.0	2.8
H6T	1521.8	<1	1568.2	<1	1361.6	0.1	1223.4	1.3	1210.3	1.4	1285.0	0.8
H6I1	1518.3	2.5	1564.6	2.1	1357.5	3.8	1218.6	5.0	1205.4	5.1	1280.2	4.4
H6I2	1520.5	2.4	1566.8	2.1	1359.4	3.8	1219.8	5.0	1206.3	5.1	1281.2	4.4
H7T	1570.1	<1	1622.6	<1	1442.5	<1	1349.5	0.2	1347.7	0.2	1419.0	<1
H7I1	1566.3	2.1	1618.7	1.7	1438.2	3.1	1344.7	3.9	1342.8	3.9	1414.2	3.3
H7I2	1568.4	2.1	1620.7	1.7	1439.9	3.1	1345.6	3.9	1343.6	3.9	1415.0	3.3
H8T	1454.1	<1	1509.9	<1	1349.0	0.2	1300.3	0.6	1313.4	0.5	1379.3	<1
H8I1	1450.1	3.0	1505.8	2.6	1344.5	3.9	1295.4	4.3	1308.6	4.2	1374.4	3.6
H8I2	1452.1	3.0	1507.7	2.5	1346.1	3.9	1296.2	4.3	1309.0	4.2	1375.0	3.6
H9T	1183.9	1.7	1238.8	1.2	1080.9	2.7	1070.6	2.8	1102.2	2.5	1160.0	1.9
H9I1	1179.9	5.4	1234.7	4.9	1076.3	6.4	1065.8	6.5	1097.4	6.2	1155.2	5.6
H9I2	1182.0	5.4	1236.7	4.8	1077.8	6.4	1066.2	6.5	1097.5	6.2	1155.5	5.6
H10T	1353.2	0.2	1399.9	<1	1197.6	1.6	1085.9	2.7	1085.7	2.7	1156.1	2.0
H10I1	1349.7	3.8	1396.2	3.4	1193.4	5.2	1081.0	6.4	1080.8	6.4	1151.2	5.7
H10I2	1351.9	3.8	1398.4	3.4	1195.3	5.2	1082.0	6.3	1081.5	6.3	1152.0	5.6
ST	1311.4	13.2	1343.9	12.9	1090.7	15.3	875.4	17.7	848.1	18.0	926.1	17.1

Table 3: Point of Reception Noise Impact (Daytime)  
SunE Westbrook Solar Farm, Westbrook, Ontario

Noise Source ID	Point of Reception R7		Point of Reception R8		Point of Reception R9		Point of Reception R10		Point of Reception R11		Point of Reception R12	
	Distance to R7 (m)	Sound Level at R7 (Leq) (dBA)	Distance to R8 (m)	Sound Level at R8 (Leq) (dBA)	Distance to R9 (m)	Sound Level at R9 (Leq) (dBA)	Distance to R10 (m)	Sound Level at R10 (Leq) (dBA)	Distance to R11 (m)	Sound Level at R11 (Leq) (dBA)	Distance to R12 (m)	Sound Level at R12 (Leq) (dBA)
H1T	1043.8	3.1	1060.1	2.9	1099.4	2.5	1083.5	2.7	1085.1	2.7	1064.2	2.9
H1I1	1038.9	6.8	1055.2	6.6	1094.5	6.2	1078.6	6.4	1080.3	6.4	1059.4	6.6
H1I2	1039.6	6.8	1055.9	6.6	1095.3	6.2	1079.3	6.4	1080.8	6.4	1059.8	6.6
H2T	1008.8	3.5	1028.5	3.3	1058.1	3.0	1054.4	3.0	1061.5	2.9	1048.0	3.1
H2I1	1004.0	7.2	1023.7	7.0	1053.3	6.6	1049.6	6.7	1056.7	6.6	1043.3	6.7
H2I2	1004.3	7.2	1024.0	7.0	1053.7	6.6	1049.8	6.7	1056.9	6.6	1043.3	6.7
H3T	1006.0	3.5	1028.6	3.3	1047.2	3.1	1056.2	3.0	1068.7	2.8	1063.1	2.9
H3I1	1001.4	7.2	1024.0	7.0	1042.5	6.8	1051.7	6.7	1064.2	6.5	1058.7	6.6
H3I2	1001.2	7.2	1023.8	7.0	1042.5	6.8	1051.4	6.7	1063.9	6.5	1058.3	6.6
H4T	1408.3	<1	1429.6	<1	1453.4	<1	1456.4	<1	1465.9	<1	1455.5	<1
H4I1	1403.6	3.4	1424.8	3.2	1448.6	3.0	1451.7	3.0	1461.2	2.9	1450.9	3.0
H4I2	1403.6	3.4	1424.9	3.2	1448.7	3.0	1451.7	3.0	1461.2	2.9	1450.7	3.0
H5T	1486.5	<1	1501.8	<1	1543.4	<1	1524.3	<1	1523.9	<1	1500.1	<1
H5I1	1481.6	2.7	1496.9	2.6	1538.5	2.3	1519.4	2.5	1519.0	2.5	1495.2	2.6
H5I2	1482.4	2.7	1497.7	2.6	1539.4	2.3	1520.1	2.4	1519.7	2.4	1495.9	2.6
H6T	1301.1	0.6	1317.2	0.5	1356.9	0.1	1340.4	0.3	1341.4	0.3	1319.4	0.4
H6I1	1296.2	4.3	1312.3	4.2	1352.1	3.8	1335.5	4.0	1336.5	3.9	1314.6	4.1
H6I2	1297.0	4.3	1313.0	4.2	1352.9	3.8	1336.2	4.0	1337.1	3.9	1315.1	4.1
H7T	1444.9	<1	1462.3	<1	1498.6	<1	1486.4	<1	1489.3	<1	1469.7	<1
H7I1	1440.0	3.1	1457.4	2.9	1493.7	2.7	1481.6	2.7	1484.5	2.7	1464.8	2.9
H7I2	1440.6	3.1	1458.0	2.9	1494.3	2.6	1482.1	2.7	1484.9	2.7	1465.2	2.9
H8T	1419.3	<1	1438.6	<1	1469.1	<1	1464.2	<1	1470.3	<1	1454.9	<1
H8I1	1414.4	3.3	1433.8	3.1	1464.3	2.9	1459.3	2.9	1465.4	2.9	1450.1	3.0
H8I2	1414.8	3.3	1434.1	3.1	1464.7	2.9	1459.6	2.9	1465.7	2.9	1450.3	3.0
H9T	1217.9	1.4	1239.6	1.2	1261.9	1.0	1266.7	0.9	1277.2	0.8	1268.4	0.9
H9I1	1213.2	5.1	1234.9	4.9	1257.1	4.7	1262.0	4.6	1272.6	4.5	1263.8	4.6
H9I2	1213.2	5.1	1234.9	4.9	1257.2	4.7	1262.0	4.6	1272.4	4.5	1263.6	4.6
H10T	1185.5	1.7	1203.6	1.5	1238.0	1.2	1228.4	1.3	1232.6	1.2	1215.0	1.4
H10I1	1180.6	5.4	1198.8	5.2	1233.1	4.9	1223.5	5.0	1227.8	4.9	1210.2	5.1
H10I2	1181.1	5.4	1199.2	5.2	1233.7	4.9	1223.9	5.0	1228.1	4.9	1210.5	5.1
ST	933.1	17.0	948.4	16.8	990.3	16.3	971.0	16.5	971.2	16.5	948.6	16.8

Table 3: Point of Reception Noise Impact (Daytime)  
SunE Westbrook Solar Farm, Westbrook, Ontario

Noise Source ID	Point of Reception R13		Point of Reception R14		Point of Reception R15		Point of Reception R16		Point of Reception R17		Point of Reception R18	
	Distance to R13 (m)	Sound Level at R13 (Leq) (dBA)	Distance to R14 (m)	Sound Level at R14 (Leq) (dBA)	Distance to R15 (m)	Sound Level at R15 (Leq) (dBA)	Distance to R16 (m)	Sound Level at R16 (Leq) (dBA)	Distance to R17 (m)	Sound Level at R17 (Leq) (dBA)	Distance to R18 (m)	Sound Level at R18 (Leq) (dBA)
H1T	1054.7	3.0	1295.7	0.7	170.9	20.8	674.2	7.8	699.1	7.4	1418.8	<1
H1I1	1049.8	6.7	1291.4	4.3	169.2	24.6	677.2	11.4	702.3	11.0	1422.8	3.2
H1I2	1050.1	6.7	1290.8	4.4	167.1	24.7	674.9	11.4	700.1	11.0	1420.8	3.2
H2T	1050.9	3.0	1345.7	0.2	335.9	14.6	845.5	5.4	865.5	5.2	1565.8	<1
H2I1	1046.3	6.7	1341.7	3.9	335.7	18.3	848.2	9.0	868.4	8.8	1569.5	2.1
H2I2	1046.1	6.7	1340.8	3.9	333.3	18.4	845.8	9.0	866.0	8.8	1567.4	2.1
H3T	1078.2	2.7	1417.4	<1	512.3	10.6	1020.5	3.4	1037.0	3.2	1719.4	<1
H3I1	1073.9	6.4	1413.8	3.3	512.7	14.2	1022.9	7.0	1039.7	6.8	1723.0	0.9
H3I2	1073.3	6.4	1412.6	3.3	510.2	14.3	1020.4	7.0	1037.3	6.8	1720.8	1.0
H4T	1462.1	<1	1757.4	<1	649.0	8.2	907.9	4.6	899.7	4.7	1463.5	<1
H4I1	1457.5	2.9	1753.3	0.7	646.2	11.9	908.4	8.3	900.5	8.4	1466.2	2.9
H4I2	1457.3	2.9	1752.6	0.7	644.6	11.9	905.9	8.3	898.0	8.4	1463.8	2.9
H5T	1484.4	<1	1673.9	<1	506.5	10.7	463.5	11.6	447.2	11.9	1040.9	3.1
H5I1	1479.5	2.8	1669.2	1.3	501.7	14.4	463.1	15.2	447.5	15.6	1044.2	6.7
H5I2	1480.0	2.8	1669.1	1.3	501.9	14.4	460.7	15.3	445.0	15.6	1041.9	6.8
H6T	1307.3	0.6	1522.7	<1	347.8	14.3	543.0	10.0	547.3	9.9	1211.6	1.4
H6I1	1302.5	4.2	1518.2	2.5	343.4	18.1	544.4	13.6	549.1	13.5	1215.1	5.0
H6I2	1302.8	4.2	1517.8	2.5	343.0	18.1	541.8	13.7	546.6	13.6	1213.0	5.1
H7T	1461.2	<1	1688.5	<1	514.7	10.5	609.4	8.8	597.1	9.0	1178.8	1.7
H7I1	1456.4	3.0	1684.0	1.2	510.3	14.3	609.5	12.5	597.7	12.7	1181.9	5.4
H7I2	1456.6	2.9	1683.6	1.2	509.8	14.3	607.0	12.5	595.2	12.7	1179.5	5.4
H8T	1453.7	<1	1715.2	<1	562.8	9.6	752.1	6.7	742.2	6.8	1314.4	0.5
H8I1	1448.9	3.0	1710.9	1.0	559.2	13.3	752.4	10.3	742.9	10.4	1317.3	4.1
H8I2	1448.9	3.0	1710.3	1.0	558.1	13.4	750.0	10.3	740.4	10.5	1314.9	4.1
H9T	1277.8	0.8	1589.9	<1	543.7	10.0	930.9	4.4	935.3	4.3	1567.2	<1
H9I1	1273.3	4.5	1586.0	1.9	542.0	13.7	932.4	8.0	937.1	7.9	1570.4	2.1
H9I2	1273.0	4.5	1585.0	2.0	539.9	13.7	929.8	8.0	934.5	8.0	1568.1	2.1
H10T	1210.6	1.4	1466.9	<1	330.3	14.8	695.7	7.5	706.1	7.3	1380.1	<1
H10I1	1205.8	5.1	1462.6	2.9	327.4	18.5	697.6	11.1	708.4	10.9	1383.6	3.5
H10I2	1205.9	5.1	1462.0	2.9	325.8	18.6	695.1	11.1	705.9	11.0	1381.5	3.6
ST	936.7	16.9	1174.7	14.4	126.3	36.0	715.4	19.8	748.6	19.3	1485.4	11.8

Table 3: Point of Reception Noise Impact (Daytime)  
SunE Westbrook Solar Farm, Westbrook, Ontario

Noise Source ID	Point of Reception R19		Point of Reception R20		Point of Reception R21		Point of Reception R22		Point of Reception V1		Point of Reception V2	
	Distance to R19 (m)	Sound Level at R19 (Leq) (dBA)	Distance to R20 (m)	Sound Level at R20 (Leq) (dBA)	Distance to R21 (m)	Sound Level at R21 (Leq) (dBA)	Distance to R22 (m)	Sound Level at R22 (Leq) (dBA)	Distance to V1 (m)	Sound Level at V1 (Leq) (dBA)	Distance to V2 (m)	Sound Level at V2 (Leq) (dBA)
H1T	1612.6	<1	1653.0	<1	1587.2	<1	1070.8	2.8	1280.7	0.8	1188.4	1.6
H1I1	1616.6	1.7	1657.0	1.4	1591.5	1.9	1065.9	6.5	1278.9	4.5	1186.6	5.3
H1I2	1614.6	1.7	1655.0	1.4	1589.6	1.9	1066.3	6.5	1281.5	4.4	1189.1	5.3
H2T	1756.4	<1	1797.3	<1	1722.1	<1	1058.0	3.0	1100.0	2.5	1008.1	3.5
H2I1	1760.2	0.7	1801.1	0.4	1726.1	0.9	1053.3	6.6	1098.2	6.2	1006.2	7.1
H2I2	1758.1	0.7	1799.0	0.4	1724.2	0.9	1053.3	6.6	1100.7	6.2	1008.7	7.1
H3T	1906.7	<1	1947.9	<1	1865.0	<1	1076.1	2.8	919.7	4.5	828.4	5.6
H3I1	1910.3	<1	1951.5	<1	1868.8	<1	1071.7	6.5	917.8	8.2	826.4	9.3
H3I2	1908.1	<1	1949.4	<1	1866.8	<1	1071.3	6.5	920.3	8.1	828.9	9.3
H4T	1635.0	<1	1676.3	<1	1572.3	<1	1466.5	<1	1137.5	2.1	1059.7	2.9
H4I1	1638.0	1.6	1679.3	1.3	1575.6	2.0	1461.9	2.9	1134.1	5.8	1056.1	6.6
H4I2	1635.7	1.6	1677.0	1.3	1573.3	2.0	1461.7	2.9	1136.4	5.8	1058.3	6.6
H5T	1224.7	1.3	1266.1	0.9	1180.9	1.7	1505.0	<1	1556.3	<1	1471.6	<1
H5I1	1228.2	4.9	1269.6	4.5	1184.7	5.3	1500.2	2.6	1553.5	2.2	1468.6	2.9
H5I2	1226.0	4.9	1267.4	4.6	1182.7	5.3	1500.8	2.6	1555.9	2.2	1471.0	2.8
H6T	1400.0	<1	1441.1	<1	1363.0	0.1	1325.4	0.4	1406.8	<1	1319.0	0.5
H6I1	1403.7	3.4	1444.8	3.0	1367.0	3.7	1320.5	4.1	1404.3	3.4	1316.4	4.1
H6I2	1401.6	3.4	1442.7	3.1	1365.0	3.7	1321.0	4.1	1406.8	3.4	1318.8	4.1
H7T	1358.1	0.1	1399.5	<1	1306.6	0.6	1476.7	<1	1414.1	<1	1331.0	0.3
H7I1	1361.4	3.7	1402.8	3.4	1310.2	4.2	1471.8	2.8	1411.1	3.3	1327.9	4.0
H7I2	1359.1	3.8	1400.6	3.4	1308.0	4.2	1472.2	2.8	1413.5	3.3	1330.3	4.0
H8T	1489.8	<1	1531.2	<1	1432.3	<1	1463.9	<1	1279.6	0.8	1198.6	1.6
H8I1	1492.9	2.7	1534.3	2.3	1435.7	3.1	1459.1	2.9	1276.5	4.5	1195.4	5.2
H8I2	1490.6	2.7	1532.0	2.4	1433.5	3.1	1459.2	2.9	1278.8	4.5	1197.6	5.2
H9T	1747.8	<1	1789.2	<1	1695.9	<1	1280.1	0.8	1028.3	3.3	943.5	4.2
H9I1	1751.1	0.8	1792.5	0.5	1699.5	1.1	1275.5	4.5	1025.6	6.9	940.5	7.9
H9I2	1748.9	0.8	1790.3	0.5	1697.3	1.1	1275.2	4.5	1028.0	6.9	942.9	7.9
H10T	1568.2	<1	1609.3	<1	1529.4	<1	1223.1	1.3	1244.0	1.1	1155.1	2.0
H10I1	1571.8	2.0	1613.0	1.7	1533.4	2.3	1218.3	5.0	1241.7	4.8	1152.7	5.6
H10I2	1569.7	2.1	1610.9	1.8	1531.4	2.4	1218.5	5.0	1244.1	4.8	1155.1	5.6
ST	1681.4	10.3	1721.2	10.0	1663.7	10.4	954.5	16.7	1289.0	13.4	1195.4	14.3



Table 3: Point of Reception Noise Impact (Daytime)  
SunE Westbrook Solar Farm, Westbrook, Ontario

Noise Source ID	Point of Reception V3		Point of Reception V4		Point of Reception V5		Point of Reception V6		Point of Reception V7		Point of Reception V8	
	Distance to R25 V3 (m)	Sound Level at V3 (Leq) (dBA)	Distance to V4 (m)	Sound Level at V4 (Leq) (dBA)	Distance to V5 (m)	Sound Level at V5 (Leq) (dBA)	Distance to V6 (m)	Sound Level at V6 (Leq) (dBA)	Distance to V7 (m)	Sound Level at V7 (Leq) (dBA)	Distance to V8 (m)	Sound Level at V8 (Leq) (dBA)
H1T	214.1	18.7	828.2	5.6	943.4	4.2	1275.1	0.8	1045.2	3.1	1250.0	1.1
H1I1	213.2	22.4	832.3	9.2	947.9	7.8	1279.3	4.5	1049.3	6.7	1253.9	4.7
H1I2	210.9	22.5	830.3	9.2	946.2	7.8	1277.5	4.5	1047.4	6.7	1251.9	4.7
H2T	384.8	13.4	973.6	3.9	1070.4	2.8	1411.2	<1	1187.0	1.7	1397.2	<1
H2I1	384.8	17.0	977.3	7.5	1074.5	6.4	1415.1	3.3	1190.8	5.3	1400.9	3.4
H2I2	382.4	17.1	975.2	7.5	1072.7	6.4	1413.2	3.3	1188.7	5.3	1398.8	3.4
H3T	562.4	9.7	1129.5	2.2	1211.4	1.4	1556.6	<1	1338.5	0.3	1551.8	<1
H3I1	562.8	13.3	1132.9	5.8	1215.3	5.0	1560.3	2.1	1342.0	3.9	1555.2	2.2
H3I2	560.3	13.3	1130.7	5.9	1213.2	5.1	1558.2	2.2	1339.8	3.9	1553.0	2.2
H4T	681.8	7.7	909.1	4.6	935.9	4.3	1279.1	0.8	1089.0	2.6	1304.3	0.6
H4I1	679.2	11.4	911.0	8.2	938.7	7.9	1282.1	4.4	1091.5	6.2	1306.9	4.2
H4I2	677.4	11.4	908.5	8.3	936.3	7.9	1279.7	4.4	1089.1	6.3	1304.4	4.2
H5T	503.4	10.8	461.5	11.6	527.3	10.3	872.9	5.1	659.6	8.0	875.2	5.0
H5I1	498.7	14.5	464.1	15.2	531.2	13.9	876.6	8.7	662.9	11.6	878.4	8.6
H5I2	498.7	14.5	461.6	15.3	529.1	13.9	874.5	8.7	660.6	11.6	876.1	8.7
H6T	359.0	14.0	621.3	8.6	710.9	7.2	1052.6	3.0	831.0	5.6	1043.7	3.1
H6I1	354.9	17.8	624.6	12.2	715.0	10.8	1056.5	6.6	834.7	9.2	1047.2	6.7
H6I2	354.1	17.8	622.4	12.3	713.1	10.8	1054.5	6.6	832.6	9.2	1045.0	6.7
H7T	526.6	10.3	609.0	8.8	656.4	8.1	1003.4	3.5	799.2	6.0	1015.5	3.4
H7I1	522.5	14.0	611.3	12.4	659.7	11.7	1006.8	7.1	802.2	9.6	1018.4	7.0
H7I2	521.8	14.0	608.8	12.5	657.5	11.7	1004.5	7.2	799.8	9.6	1016.0	7.0
H8T	586.7	9.2	752.7	6.6	788.3	6.2	1133.9	2.2	937.2	4.3	1153.2	2.0
H8I1	583.3	12.9	754.8	10.3	791.4	9.7	1137.1	5.8	939.9	7.9	1155.9	5.6
H8I2	582.0	12.9	752.3	10.3	789.0	9.8	1134.8	5.8	937.5	7.9	1153.5	5.6
H9T	585.7	9.2	988.9	3.7	1046.2	3.1	1393.2	<1	1186.6	1.7	1402.6	<1
H9I1	584.3	12.9	991.6	7.3	1049.6	6.7	1396.6	3.4	1189.7	5.3	1405.7	3.4
H9I2	582.1	12.9	989.2	7.3	1047.4	6.7	1394.4	3.5	1187.4	5.3	1403.3	3.4
H10T	363.4	13.9	789.8	6.1	876.3	5.0	1219.7	1.4	999.4	3.6	1212.2	1.4
H10I1	361.0	17.6	793.2	9.7	880.3	8.6	1223.5	5.0	1003.0	7.2	1215.7	5.0
H10I2	359.2	17.7	791.0	9.8	878.4	8.6	1221.5	5.0	1000.9	7.2	1213.6	5.1
ST	176.9	32.9	901.1	17.3	1029.5	15.9	1352.1	12.9	1119.0	15.0	1317.2	13.2

Table 3: Point of Reception Noise Impact (Daytime)  
SunE Westbrook Solar Farm, Westbrook, Ontario

Noise Source ID	Point of Reception V9		Point of Reception V10		Point of Reception V11		Point of Reception V12		Point of Reception V13		Point of Reception V14	
	Distance to V9 (m)	Sound Level at V9 (Leq) (dBA)	Distance to V10 (m)	Sound Level at V10 (Leq) (dBA)	Distance to V11 (m)	Sound Level at V11 (Leq) (dBA)	Distance to V12 (m)	Sound Level at V12 (Leq) (dBA)	Distance to V13 (m)	Sound Level at V13 (Leq) (dBA)	Distance to V14 (m)	Sound Level at V14 (Leq) (dBA)
H1T	1032.7	3.2	1068.0	2.9	1966.2	<1	2135.1	<1	832.3	5.6	1954.0	<1
H1I1	1037.1	6.8	1072.4	6.4	1970.4	<1	2138.6	<1	827.9	9.3	1958.8	<1
H1I2	1035.4	6.8	1070.7	6.5	1971.0	<1	2139.8	<1	829.6	9.2	1958.7	<1
H2T	1161.0	1.9	1198.0	1.6	1930.5	<1	2050.2	<1	727.3	7.0	1972.2	<1
H2I1	1165.1	5.5	1202.1	5.2	1935.0	<1	2053.9	<1	722.5	10.7	1977.1	<1
H2I2	1163.2	5.5	1200.2	5.2	1935.4	<1	2055.0	<1	723.8	10.7	1976.7	<1
H3T	1302.1	0.6	1340.2	0.3	1911.6	<1	1978.4	<1	656.6	8.1	2006.7	<1
H3I1	1306.0	4.2	1344.0	3.9	1916.2	<1	1982.4	<1	651.7	11.8	2011.6	<1
H3I2	1303.9	4.2	1341.9	3.9	1916.3	<1	1983.3	<1	652.4	11.8	2011.0	<1
H4T	1022.1	3.3	1061.2	2.9	1517.1	<1	1649.9	<1	1072.1	2.8	1591.0	<1
H4I1	1025.0	6.9	1064.1	6.5	1521.6	2.4	1653.4	1.4	1067.2	6.5	1595.9	1.9
H4I2	1022.7	7.0	1061.8	6.6	1522.0	2.4	1654.6	1.4	1067.9	6.5	1595.3	1.9
H5T	618.1	8.7	656.1	8.1	1642.2	<1	1913.6	<1	1267.9	0.9	1548.4	<1
H5I1	621.9	12.3	659.9	11.7	1646.0	1.5	1916.4	<1	1263.3	4.6	1553.0	2.2
H5I2	619.9	12.3	657.8	11.7	1647.0	1.5	1918.0	<1	1264.7	4.6	1553.1	2.2
H6T	801.5	6.0	838.6	5.5	1754.6	<1	1974.6	<1	1075.5	2.8	1707.3	<1
H6I1	805.6	9.6	842.7	9.1	1758.7	0.7	1977.7	<1	1071.0	6.5	1712.0	1.0
H6I2	803.7	9.6	840.7	9.1	1759.5	0.7	1979.1	<1	1072.5	6.4	1712.0	1.0
H7T	745.9	6.7	784.7	6.2	1587.0	<1	1817.2	<1	1186.7	1.7	1547.8	<1
H7I1	749.3	10.3	788.2	9.8	1591.1	1.9	1820.2	0.3	1182.0	5.4	1552.5	2.2
H7I2	747.1	10.4	785.9	9.8	1591.9	1.9	1821.8	0.3	1183.2	5.3	1552.4	2.2
H8T	876.2	5.0	915.3	4.6	1546.4	<1	1732.2	<1	1122.8	2.3	1561.3	<1
H8I1	879.4	8.6	918.4	8.1	1550.6	2.2	1735.4	0.9	1118.0	6.0	1566.1	2.1
H8I2	877.1	8.6	916.1	8.2	1551.2	2.2	1736.8	0.9	1119.0	6.0	1565.8	2.1
H9T	1135.7	2.2	1174.6	1.8	1702.1	<1	1803.6	<1	879.1	5.0	1784.3	<1
H9I1	1139.2	5.8	1178.0	5.4	1706.7	1.1	1807.3	0.4	874.2	8.7	1789.2	0.5
H9I2	1137.0	5.8	1175.8	5.4	1706.9	1.1	1808.4	0.4	874.9	8.7	1788.6	0.5
H10T	967.1	3.9	1004.6	3.5	1794.6	<1	1963.7	<1	925.5	4.4	1798.2	<1
H10I1	971.1	7.5	1008.6	7.1	1798.9	0.4	1967.1	<1	920.8	8.1	1803.0	0.4
H10I2	969.1	7.6	1006.6	7.1	1799.4	0.4	1968.4	<1	922.2	8.1	1802.8	0.4
ST	1117.1	15.0	1151.0	14.7	2086.9	7.6	2247.5	6.7	755.6	19.2	2073.8	7.7

Table 3: Point of Reception Noise Impact (Daytime)  
SunE Westbrook Solar Farm, Westbrook, Ontario

Noise Source ID	Point of Reception V15		Point of Reception V16		Point of Reception V17		Point of Reception V18		Point of Reception V19	
	Distance to V15 (m)	Sound Level at V15 (Leq) (dBA)	Distance to V16 (m)	Sound Level at V16 (Leq) (dBA)	Distance to V17 (m)	Sound Level at V17 (Leq) (dBA)	Distance to V18 (m)	Sound Level at V18 (Leq) (dBA)	Distance to V19 (m)	Sound Level at V19 (Leq) (dBA)
H1T	852.0	5.3	972.9	3.9	1522.1	<1	2004.3	<1	1975.3	<1
H111	847.4	9.0	968.8	7.6	1525.9	2.4	2008.4	<1	1980.1	<1
H112	848.8	9.0	968.1	7.6	1523.9	2.4	2009.2	<1	1979.8	<1
H2T	766.1	6.5	1043.8	3.1	1670.6	<1	1958.5	<1	2002.9	<1
H211	761.3	10.2	1040.2	6.8	1674.3	1.3	1962.9	<1	2007.7	<1
H212	762.3	10.1	1039.1	6.8	1672.2	1.3	1963.4	<1	2007.2	<1
H3T	717.0	7.2	1139.5	2.1	1825.2	<1	1928.9	<1	2046.3	<1
H311	712.1	10.9	1136.5	5.8	1828.6	0.2	1933.4	<1	2051.2	<1
H312	712.5	10.9	1135.0	5.8	1826.5	0.2	1933.7	<1	2050.4	<1
H4T	1132.0	2.2	1447.5	<1	1569.7	<1	1544.1	<1	1631.3	<1
H411	1127.2	5.9	1443.7	3.1	1572.5	2.0	1548.5	2.2	1636.2	1.6
H412	1127.6	5.9	1442.7	3.1	1570.1	2.1	1549.0	2.2	1635.5	1.6
H5T	1295.0	0.7	1334.7	0.3	1147.2	2.0	1698.9	<1	1559.2	<1
H511	1290.3	4.4	1330.1	4.0	1150.5	5.7	1702.5	1.1	1563.9	2.1
H512	1291.6	4.3	1329.9	4.0	1148.2	5.7	1703.7	1.1	1563.9	2.1
H6T	1102.7	2.5	1189.3	1.6	1317.1	0.5	1801.6	<1	1724.8	<1
H611	1098.0	6.2	1184.9	5.3	1320.6	4.1	1805.5	0.4	1729.6	0.9
H612	1099.3	6.2	1184.4	5.3	1318.5	4.1	1806.4	0.4	1729.4	0.9
H7T	1224.2	1.3	1356.3	0.1	1285.3	0.8	1634.8	<1	1568.8	<1
H711	1219.4	5.0	1351.9	3.8	1288.4	4.4	1638.7	1.6	1573.7	2.0
H712	1220.5	5.0	1351.4	3.8	1286.1	4.4	1639.6	1.5	1573.4	2.0
H8T	1171.0	1.8	1392.6	<1	1420.9	<1	1584.6	<1	1591.9	<1
H811	1166.1	5.5	1388.4	3.5	1423.8	3.2	1588.7	1.9	1596.8	1.9
H812	1166.9	5.5	1387.7	3.5	1421.4	3.2	1589.4	1.9	1596.3	1.9
H9T	938.4	4.3	1291.1	0.7	1673.7	<1	1724.6	<1	1823.8	<1
H911	933.6	8.0	1287.5	4.4	1676.9	1.3	1729.1	0.9	1828.7	0.2
H912	934.0	8.0	1286.3	4.4	1674.6	1.3	1729.5	0.9	1827.9	0.2
H10T	960.9	4.0	1146.0	2.1	1485.7	<1	1831.5	<1	1823.9	<1
H1011	956.0	7.7	1141.9	5.7	1489.2	2.7	1835.7	0.2	1828.8	0.2
H1012	957.1	7.7	1141.1	5.7	1487.0	2.7	1836.4	0.2	1828.4	0.2
ST	764.0	19.1	854.0	17.9	1586.6	11.0	2124.0	7.4	2093.9	7.6

**Table 4: Acoustic Assessment Summary Table**  
**SunE Westbrook Solar Farm, Westbrook, Ontario**

Point of Reception ID	Coordinates (height 4.5 m)		Daytime Sound Level at Point of Reception (Leq, dBA)	Verified by Acoustic Audit (Yes/No)	Performance Limit (Leq) (dBA)	Compliance with Performance Limit (Yes/No)	Nithtime Sound Level at Point of Reception (Leq, dBA)	Verified by Acoustic Audit (Yes/No)	Performance Limit (Leq) (dBA)	Compliance with Performance Limit (Yes/No)
	X (m)	Y (m)								
R1	368452.8	4905660.5	19.3	No	45	Yes	15.1	No	40	Yes
R2	368445.2	4905583.4	18.9	No	45	Yes	14.7	No	40	Yes
R3	368759.6	4905509.6	20.8	No	45	Yes	16.9	No	40	Yes
R4	369205.6	4905336.6	22.1	No	45	Yes	18.8	No	40	Yes
R5	369338.7	4905291.1	22.2	No	45	Yes	19.1	No	40	Yes
R6	369271.0	4905237.8	21.4	No	45	Yes	18.2	No	40	Yes
R7	369399.9	4905174.5	21.1	No	45	Yes	18.1	No	40	Yes
R8	369415.8	4905153.2	20.9	No	45	Yes	17.9	No	40	Yes
R9	369352.3	4905130.9	20.6	No	45	Yes	17.4	No	40	Yes
R10	369426.1	4905126.4	20.7	No	45	Yes	17.6	No	40	Yes
R11	369457.7	4905117.3	20.7	No	45	Yes	17.6	No	40	Yes
R12	369503.2	4905129.7	20.8	No	45	Yes	17.8	No	40	Yes
R13	369575.4	4905129.1	20.9	No	45	Yes	17.9	No	40	Yes
R14	369960.6	4904911.0	18.5	No	45	Yes	15.5	No	40	Yes
R15	369827.3	4906078.6	37.4	No	45	Yes	36.3	No	40	Yes
R16	370313.5	4906429.8	26.3	No	45	Yes	21.9	No	40	Yes
R17	370313.5	4906490.2	26.3	No	45	Yes	21.6	No	40	Yes
R18	370804.1	4907053.9	18.8	No	45	Yes	14.1	No	40	Yes
R19	370929.9	4907206.5	17.2	No	45	Yes	12.6	No	40	Yes
R20	370966.9	4907225.3	16.9	No	45	Yes	12.3	No	40	Yes
R21	370825.3	4907285.0	17.5	No	45	Yes	12.8	No	40	Yes
R22	369522.2	4905119.8	20.8	No	45	Yes	17.8	No	40	Yes
V1	368413.9	4906049.3	20.2	No	45	Yes	15.6	No	40	Yes
V2	368507.6	4906041.5	21.1	No	45	Yes	16.5	No	40	Yes
V3	369878.4	4906079.3	34.9	No	45	Yes	33.3	No	40	Yes
V4	370317.9	4906715.7	25.3	No	45	Yes	20.2	No	40	Yes
V5	370300.8	4906895.2	24.2	No	45	Yes	19	No	40	Yes
V6	370602.8	4907066.1	20.3	No	45	Yes	15.4	No	40	Yes
V7	370468.0	4906873.6	22.6	No	45	Yes	17.7	No	40	Yes
V8	370669.6	4906951.8	20.3	No	45	Yes	15.6	No	40	Yes
V9	370371.7	4906951.8	23	No	45	Yes	17.9	No	40	Yes
V10	370407.9	4906966.8	22.6	No	45	Yes	17.5	No	40	Yes
V11	369215.2	4908086.1	15.6	No	45	Yes	10.5	No	40	Yes
V12	368619.8	4908026.3	14.5	No	45	Yes	9.4	No	40	Yes
V13	369146.5	4905545.7	24	No	45	Yes	20.5	No	40	Yes
V14	369793.6	4908128.9	15.6	No	45	Yes	10.5	No	40	Yes
V15	369215.0	4905469.1	23.6	No	45	Yes	20.3	No	40	Yes
V16	369990.6	4905253.0	21.6	No	45	Yes	18.8	No	40	Yes
V17	370902.0	4907096.0	17.9	No	45	Yes	13.3	No	40	Yes
V18	369098.4	4908093.3	15.4	No	45	Yes	10.3	No	40	Yes
V19	369899.0	4908141.7	15.4	No	45	Yes	10.4	No	40	Yes

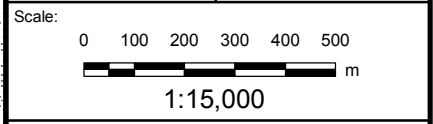
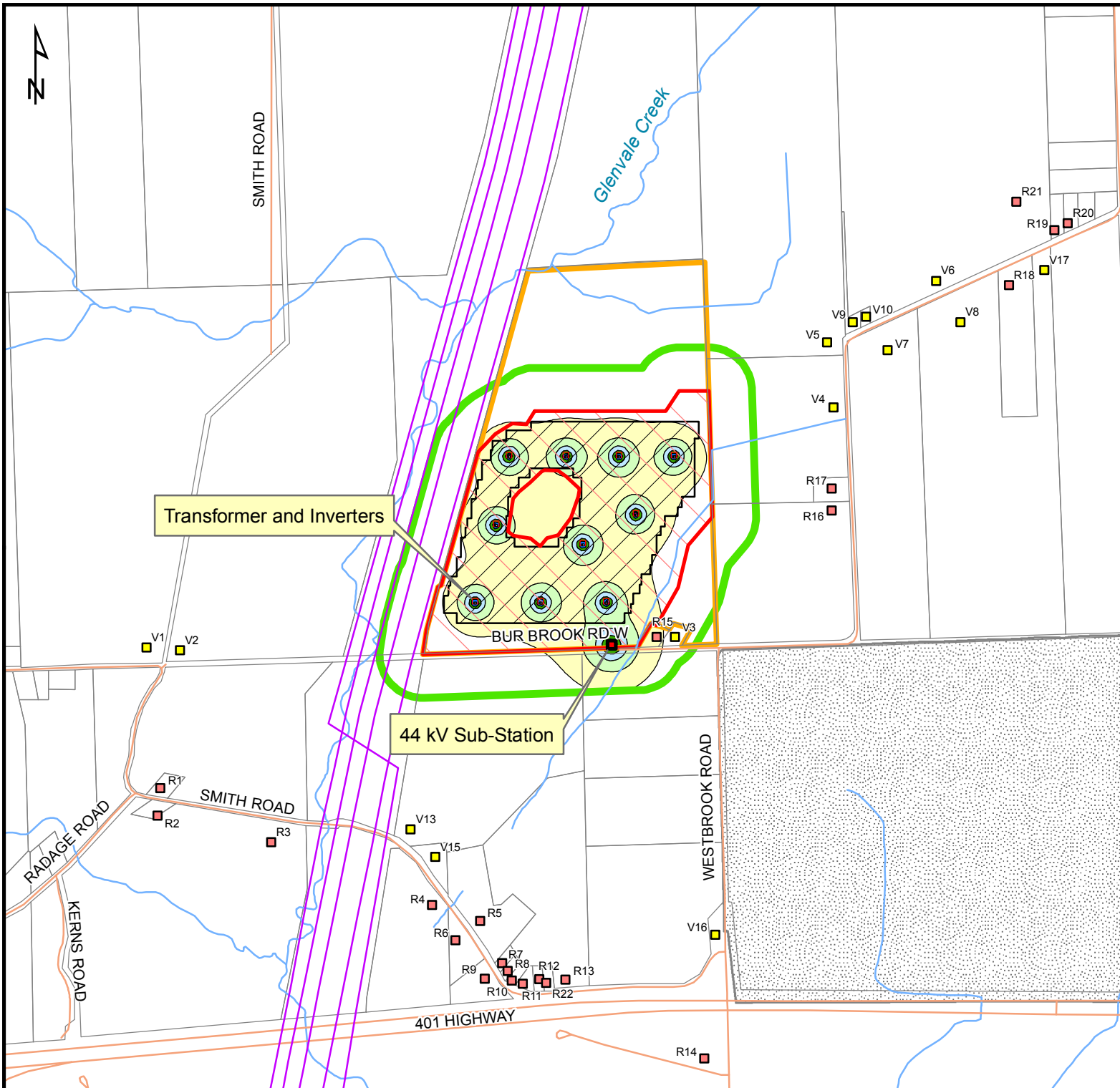


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Appendix A

Site Location Map

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Project:  
SunE Westbrook Solar Farm

Title:  
Westbrook Site Noise Analysis

Project No.: 111-18734-00	Date: January 17, 2012
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Revision No.: 0	Drawing No.: 1
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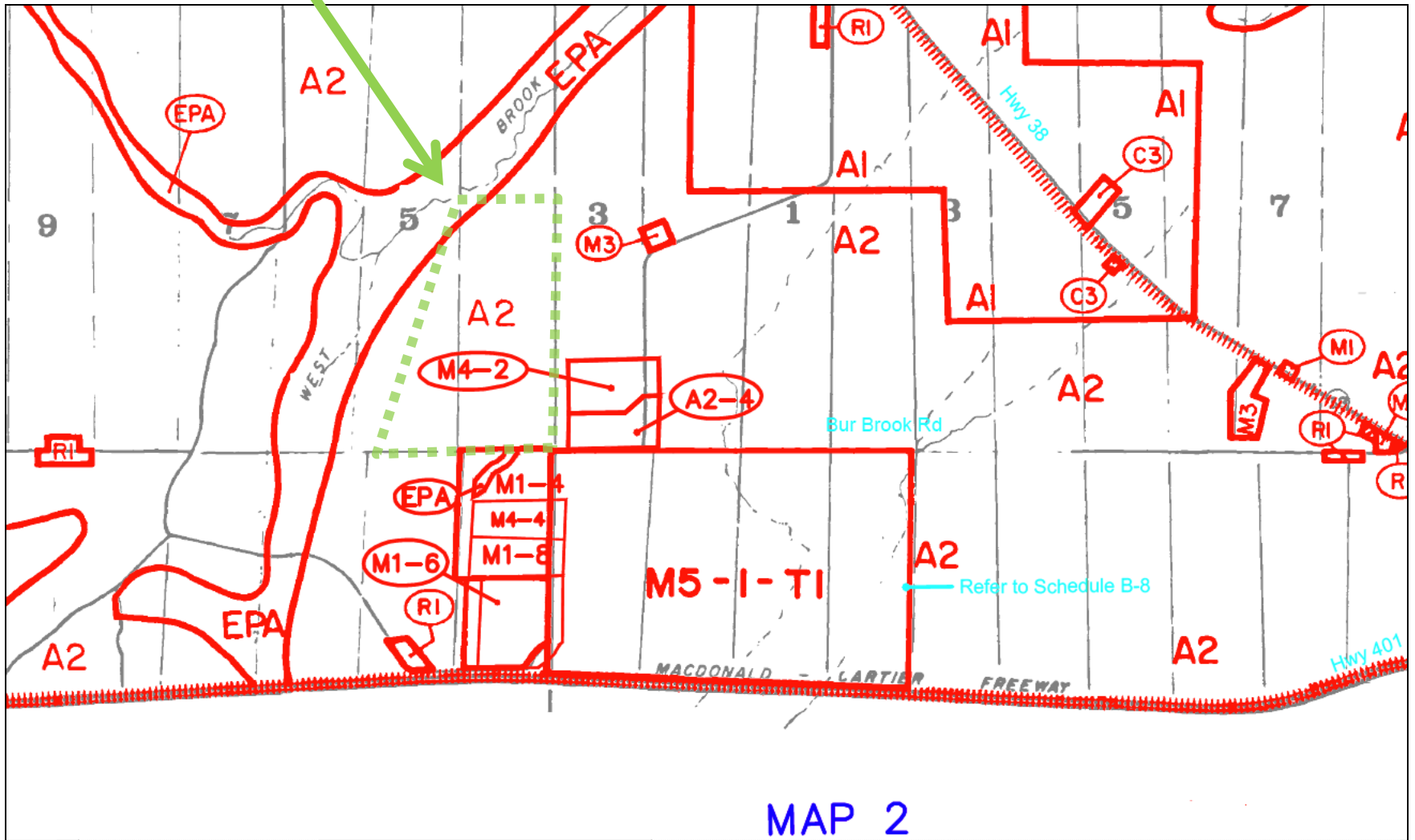
## Appendix B

### Zoning / Land-Use Information

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SunE Westbrook Solar Farm  
Zoning: A2 and EPA

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## Appendix C

### Satcon 500kW Inverter Datasheets

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PVS-500 (MVT)

PVS-500 (480 V)

PVS-500 (265 V) CE

Peak Efficiency 97.6%

Power Efficiency

Power Level	Output Power <sup>1</sup>	Efficiency <sup>2</sup>
10%	50 kW	92.2%
20%	100 kW	95.6%
30%	150 kW	96.2%
50%	250 kW	96.5%
75%	375 kW	96.4%
100%	500 kW	96.0%

<sup>1</sup> 320V minimum    <sup>2</sup> 480V model

Power Efficiency without Transformer

Power Level	Output Power <sup>1</sup>	Efficiency
10%	50 kW	97.08%
20%	100 kW	97.52%
30%	150 kW	97.58%
50%	250 kW	97.46%
75%	375 kW	97.09%
100%	500 kW	96.52%

<sup>1</sup> 310V minimum

Unparalleled Performance

With their advanced system intelligence, next-generation Edge™ MPPT technology, and industrial-grade engineering, PowerGate Plus inverters maximize system uptime and power production, even in cloudy conditions.

Edge MPPT

Provides rapid and accurate control that boosts PV plant kilowatt yield

Provides a wide range of operation across all photovoltaic cell technologies

Printed Circuit Board Durability

Wide thermal operating range: -40° C (-40° F) to 85° C (185° F)

Conformal coated to withstand extreme humidity and air-pollution levels

PV Inverters | PowerGate® Plus 500 kW



Profitable PV Power

The Satcon® PowerGate® Plus 500 kW PV inverter has a significant impact on the profitability dynamic of large-scale solar PV systems. With its unparalleled system intelligence, next-generation Edge™ MPPT technology, and industrial-grade engineering, the PowerGate Plus 500 kW inverter maximizes system uptime and power production, even in the harshest environments.

Commercial and Utility Scale

The world's largest solar power installations depend on Satcon PowerGate Plus PV inverters to provide efficient and stable power—even in the harshest climates.

Advanced, Rugged, and Reliable

Engineered from the ground up to meet the demands of large-scale installations, Satcon PV inverters feature an outdoor-rated enclosure, advanced monitoring and control capabilities, and Edge,™ Satcon's next-generation MPPT solution.

Proven Performance

The proven leader in solar PV inverter solutions for commercial installations, Satcon sets the standards for efficient large-scale power conversion.

Increased PV Plant Yield

At the heart of PowerGate Plus is Edge, Satcon's next-generation power optimization solution. With rapid and accurate MPPT control, Edge increases PV plant kilowatt yield by extending the production window of arrays, enabling them to operate at optimal voltage and current levels for longer periods of time—even in varied sun conditions. To maximize efficiency, Edge improves the performance of all PV technologies, including fixed and tracking solar arrays, enabling you to get the most from your investment.

### Proven Reliability

Rugged and reliable, PowerGate Plus PV inverters are engineered from the ground up to meet the demands of large-scale installations.

### Low Maintenance

Modular components make service efficient

Dual cooling fans

### Safety

UBC Seismic Zone 4 compliant

Built-in DC and AC disconnect switches

Integrated DC two-pole disconnect switch isolates the inverter (with the exception of the GFDI circuit) from the photovoltaic power system to allow inspection and maintenance

Protective covers over exposed power connections

PowerGate Plus 500 kW Specifications			UL/CSA	CE
<b>Input Parameters</b>				
Maximum Array Input Voltage	600 VDC		•	
	900 VDC			•
PV Array Configuration	Positive Ground		◦	◦
	Negative Ground		•	◦
	Floating			•
Input Voltage Range (MPPT; Full Power)	320/333–600 VDC	200/208 VAC <sup>1</sup>	•	
	420–850 VDC	265 VAC <sup>1</sup>		•
	320–600 VDC	480 VAC	•	
Maximum Input Current	1,628 ADC/ 1,565 ADC	200/208 VAC <sup>1</sup>	•	
	1,228 ADC	265 VAC <sup>1</sup>		•
	1,628 ADC	480 VAC	•	
<b>Output Parameters</b>				
Output Voltage Range (L-L)	176–220 VAC/ 183–229 VAC	200/208 VAC <sup>1</sup>	•	
	233–292 VAC	265 VAC <sup>1</sup>		•
	422–528 VAC	480 VAC	•	
Nominal Output Voltage	200/208 VAC <sup>1</sup>		•	
	265 VAC <sup>1</sup>			•
	480 VAC		•	
Output Frequency Range	59.3–60.5 Hz		•	
	49.3–50.5 Hz			•
AC Voltage Range (Standard)	-12%/+10%		•	•
Nominal Output Frequency	60 Hz		•	
	50 Hz			•
Number of Phases	3		•	•
Maximum Output Current per Phase	1,443/1,388 A	200/208 VAC <sup>1</sup>	•	
	1090 A	265 VAC <sup>1</sup>		•
	602 A	480 VAC	•	

• Standard ◦ Optional



The integrated external transformer is standard on the 480 VAC models only; custom transformer solutions are also available.

### Streamlined Design

With all components encased in a single, space-saving enclosure, PowerGate Plus PV inverters are easy to install, operate, and maintain.

### Single Cabinet with Small Footprint

Convenient access to all components

Large in-floor cable glands make access to DC and AC cables easy

### Rugged Construction

Engineered for outdoor environments

### Output Transformer

Provides galvanic isolation

Matches the output voltage of the PV inverter to the grid

### Quiet Operation

65 dB(A) standard

PowerGate Plus 500 kW Specifications			UL/CSA	CE
<b>Peak Efficiency</b>	<b>97.6%</b>			
CEC-Weighted Efficiency <sup>3</sup>	97%	200/208 VAC <sup>1</sup>	•	
	97%	265 VAC <sup>1</sup>		•
	96%	480 VAC	•	
Maximum Continuous Output Power	500 kW (500 kVA)		•	•
Tare Losses	138.12 W	200/208 VAC <sup>1</sup>	•	
	170 W	265 VAC <sup>1</sup>		•
	138.12 W	480 VAC	•	
Power Factor at Full Load	>0.99		•	•
Harmonic Distortion	<3% THD		•	•
<b>Temperature</b>				
Operating Ambient Temperature Range (Full Power)	-20° C to +50° C		•	•
Storage Temperature Range	-30° C to +70° C		•	•
Cooling	Forced Air		•	•
<b>Noise</b>				
Noise Level	<65 dB(A)		•	•
<b>Combiner</b>				
Number of Inputs and Fuse Rating (2 fuses/input for floating)	20 (160 ADC)		○	
	30 (100 ADC)		○	
	20 (160 ADC)			○
	20 (125 ADC)			○
<b>Transformer</b>				
Integrated External Transformer	480 VAC		•	
Low Tap Voltage <sup>2</sup>	20%		•	
External Transformer <sup>2</sup>			○	○
<b>Inverter and Integrated External Transformer Cabinets</b>				
Enclosure Rating	NEMA 3R		•	
	IP54			•
Enclosure Finish (11 Gauge CRS, painted, base zinc coated)	RAL-7032		•	•
	Stainless Steel Finish		○	○
Cabinet Dimensions (Height x Width x Depth)	Inverter		92.6" x 138.8" x 43.1"	92.6" x 153.8" x 43.1"
			(235 cm x 352 cm x 109 cm)	(235 cm x 391 cm x 109 cm)
Cabinet Weight	Inverter		5,900 lbs.	2,676 kg
		Transformer	480 VAC	3,200 lbs. 1,451 kg
			77" x 49" x 30.5" (195.58 cm x 124.46 cm x 77.47 cm)	

• Standard ○ Optional



**Output Options**

**PowerGate Plus 500 kW**

UL/CSA	208 VAC <sup>1</sup> Output 480 VAC Output
CE	265 VAC <sup>1</sup> Output

<sup>1</sup> External transformer

PowerGate Plus 500 kW Specifications	UL/CSA	CE
<b>Testing and Certification</b>		
UL1741, CSA 107.1-01, IEEE 1547, IEEE C62.41.2, IEEE C62.45, IEEE C37.90.1, IEEE C37.90.2	•	
CE Certification (EN 50178, EN 61000-6-2, EN 61000-6-4)		•
UBC Zone 4 Seismic Rating	•	•
<b>Warranty</b>		
Five Years	•	•
Extended Warranty (up to 10, 15, or 20 years)	○	○
Extended Service Agreement	○	○
Uptime Guarantee	○	○
<b>Intelligent Monitoring</b>		
Satcon PV View® Plus	○	○
Satcon PV Zone	○	○
Third-Party Compatibility	•	•

- Standard
- Optional

<sup>1</sup> Options designed to be used with external transformer.

<sup>2</sup> The 20% boost tap on the isolation transformer increases the AC voltage output range for applications where the solar array DC operating voltage is at or near the lower end of the DC input range. This boost allows for continued inverter operation at lower DC voltage input levels.

<sup>3</sup> For 265 VAC and 200/208 VAC models efficiency is listed as “Inverter Only” efficiency.

Note: Specifications are subject to change.

PG500210.1

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### Prism MVP 1

Two-piece, pre-packaged MV system for grounded 1,000VDC arrays:

2 x PVS-500kW NEMA 1 inverters

Prefabricated weather-tight outdoor enclosure with dual entrances houses inverters

Corresponding 1000kVA transformer with dual secondary-side windings and integral MV disconnect switch

Transformer configurable to meet any primary side voltage

Two-piece installation allows for separation of the inverter and transformer to suit site requirements

### Prism MVP 2

One piece, factory integrated MV system for grounded 1,000 VDC arrays:

2 x PVS-500 kW NEMA 1 inverters

Prefabricated weather-tight outdoor enclosure with dual entrances houses inverters

Corresponding 1000 kVA transformer with dual secondary-side windings and integral MV disconnect switch

Transformer configurable to meet any primary side voltage

One piece design with inverter and transformer on same transportable chassis allows for "ship and drop" installation with minimal site preparation

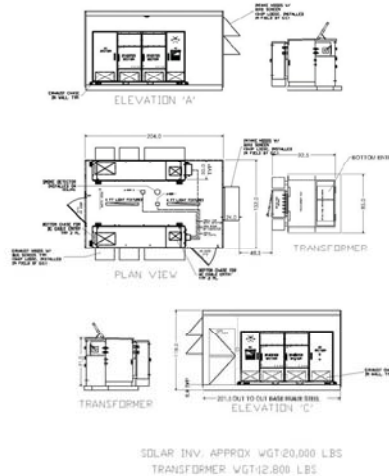
## Satcon Prism 1 MW Medium Voltage Solution



Satcon Prism a fully integrated one megawatt medium voltage (MV) solution optimized for utility scale solar PV installations. Leveraging Satcon's industry standard setting PowerGate® Plus 500kW solar PV inverters, Prism is a utility grade one megawatt platform, complete with factory integrated step-up transformers, MV disconnect switches, and power conversion electronics.

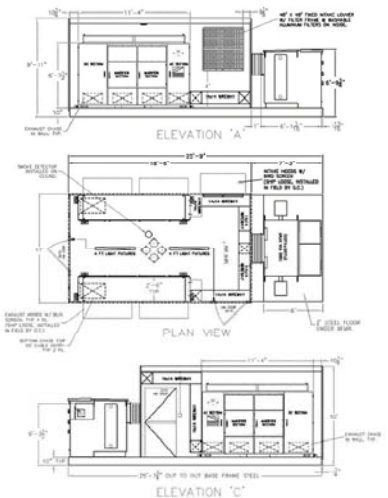
The solution is delivered in two configurations; both complete with an all-weather outdoor enclosure and ready to connect to the PV array and utility grid, enabling rapid installation through a modular prepackaged design.

### Satcon Prism MVP 1



Two-Piece, pre-packaged MV system for grounded 1,000VDC array systems

### Satcon Prism MVP 2



Pre-packaged, 1MW, integrated, one – piece MV solution for grounded, 1,000VDC PV array systems



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## Appendix D

### Inverter Sound Level Testing

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**Inverter Sound Power Level Testing**  
**Advanced Energy Industries, Fort Collins, CO**

**Prepared by: Tyler Rynberg, PE**  
**Vibro-Acoustic Consultants**  
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**Date: 14 April 2010**

## Table of Contents

•

1	Background	p. 1
2	Description of Inverter	p. 1
3	General Methodology	p. 1
4	Data Collection	p. 2
•	4.1 Measurement System Parameters	p. 2
•	4.2 Measurement Locations and Site Conditions	p. 2
•	4.3 Qualification of Acoustical Environment	p. 3
•	4.4 Data Presentation	p. 3
5	Discussion	p. 4

Figures 1~7	Measurement Data Plots	p. 5
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## 1. Background

Advanced Energy Industries (AEI) wishes to document the sound power levels generated by the Solaron 500, a 500 kW inverter. AEI has requested that the testing of the fuel cell be performed per the ISO 3744•1994 Standard. We visited the AEI facility on Thursday, 1 April 2010, to perform the testing.

Since sound power is a property of the source being tested (rather than the cumulative result of multiple sources interacting with the environment), these data are applicable to many different installation conditions. In this document, we report the measured sound power levels and sound pressure levels and provide commentary on how we would insert this source into computer-based noise propagation models.

## 2. Description of Inverter

The device under test was designated as Solaron 500 model number 3159500•0000 A1 (with 3R enclosure), a 500 kW inverter, manufactured by AEI in March 2010. The inverter had a serial number of 750385 F/R A1. The inverter was 1.83m wide x 0.97m deep x 2m high.

The inverter was mounted on a rigid wood platform constructed using 2x4 studs and rigid foam. The platform raised the inverter 0.2m off the floor. The reference box established for the inverter had the following dimensions: L1 = 1.83m, L2 = 0.97m, L3 = 2.21m.

The inverter was supplied DC input voltage by power generation equipment located in an adjacent room.

## 3. General Methodology

We measured the sound pressure levels generated by the inverter per the ISO 3744•1994 Standard. During the measurements, we collected the overall un-weighted equivalent continuous sound level ( $L_{EQ}$ ), as well as the un-weighted 1/3-octave band spectra from both the inverter and ambient conditions. The measurement duration at each microphone position was 60 seconds.

To measure the inverter, we established a parallelepiped measurement surface 1 meter from the reference box. The resultant measurement surface had the following dimensions: L1 = 3.83m, L2 = 2.97m, L3 = 3.21m, and totaled 55.01 square meters. We used 9 microphone positions, per Figure C2 of the ISO 3744•1994 Standard. For all 9 positions, the fixed microphone position technique was used.

We tested four operating configurations of the inverter. As an exploratory test, we also measured a fifth configuration at only one microphone position. The tested configurations are shown in the following table:

Configuration	Input Voltage	Output Power	Blower Setting
1	790V	100% (500kW)	Maximum
2	850V	100% (500kW)	Maximum
3	730~745V <sup>1</sup>	100% (500kW)	Maximum
4	790V	50% (250kW)	Maximum
5	850V	50% (250kW)	Maximum

<sup>1</sup>During this measurement, the voltage regulator was not operating properly. The input voltage was observed to oscillate between 730V and 745V.

We understand from our discussions with AEI personnel that the operating conditions tested are representative of a real-world installation.

## 4. Data Collection

### 4.1 Measurement System Parameters

We measured the sound power levels using our standard testing suite:

<u>Instrument</u>	<u>Make / Model</u>	<u>Identification</u>
Microphone Calibrator	Bruel & Kjaer 4231	S/N 2292439
Noise Meter	Norsonic N-140	S/N 1403581
Microphone Preamplifier	Norsonic N-1209	S/N 12749
Microphone	Norsonic N-1225	S/N 96063

The noise meter was calibrated to 94 dB at 1 kHz before and after the measurements. The microphone windscreen was used. The Norsonic N-140 has an internal correction filter to correct for the effects of the windscreen.

### 4.2 Measurement Locations and Site Conditions

We collected data in the Solaron testing lab adjacent to the main fabrication area at the AEI facility in Fort Collins, CO. The testing lab measured approximately 13.41m x 19.51m x 3.35m. The floor is an exposed concrete slab; three of the walls are constructed using vinyl-faced gypsum board on stud-framing; the remaining wall was open to the main fabrication area; the ceiling is a suspended grid containing vinyl-faced gypsum board panels. The testing area contains several workstations and other inverters. The inverter was placed near the center of the testing lab space, at least 5.5m from any of the lab walls. No workstations or other inverters were located within 4m of the inverter. However, the top of the inverter was only 1.14m below the suspended gypsum board ceiling. In an effort to reduce the effects of the ceiling on the measurements, several ceiling tiles above the



inverter were removed. This roof deck is approximately 2.8m above the suspended ceiling, providing a vertical clearance of 3.9m.

The temperature in the fabrication area was estimated to be 22°C. The relative humidity was typical of an indoor air-conditioned environment.

### 4.3 Qualification of Acoustical Environment

#### Ambient Noise Correction Factor $K_1$

In the majority of 1/3 octave bands, the ambient noise levels were greater than 6 dB below the test conditions. In the 50~80Hz, 630Hz, and 2~6.3kHz 1/3 octave bands, the ambient noise was frequently only 1~4 dB below the test conditions. Generally, the “middle” four measurement positions had a greater signal-to-noise ratio than the “top” five positions.

#### Acoustical Correction Factor $K_2$

The reflecting plane extended a minimum of 4.5m from the measurement surface in all directions, which meets the ISO-3744 Standard for the 50 Hz lower boundary of the presented data. The reflecting plane was concrete slab-on-grade and was estimated to have an absorption coefficient of 0.05 or less in the frequency bands of interest.

The Approximate Method was used to determine the environmental correction factor,  $K_2$ . Our calculations show that the highest value for  $K_2$  is 9.6 dB and occurs in the 500Hz octave band. The environment does not meet the ISO-3744 Standard requirement of  $K_2 < 2$  dB. The following table presents the calculated octave band  $K_2$  values:

Calculated $K_2$	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
	5.2 dB	4.6 dB	6.8 dB	9.6 dB	9.3 dB	8.6 dB	7.1 dB	6.2 dB

While the values for  $K_2$  exceed the ISO Standard in all octave bands, the Standard allows for compliance by using a maximum correction factor of 2 dB. Values for which the correction factor is limited to 2 dB therefore represent a “worst-case” or upper boundary for the actual performance of the device under test.

### 4.4 Data Presentation

Data are presented in Tables 1~7. For each configuration, we present the overall A-weighted ( $L_w$ ) and the unweighted 1/3 octave band sound power levels in decibels referenced to  $1 \times 10^{12}$  W. We also present the overall A-weighted (dBA) and the unweighted 1/3 octave band sound pressure levels in decibels referenced to 20  $\mu$ Pa for each configuration.

## 5. Discussion

### Non-Compliance Sound Pressure Levels

The noise generated in the 50~80Hz, 630Hz, and 2~6.3kHz 1/3 octave bands do not exceed the ambient conditions by the minimum 6 dB required by the ISO-3744 Standard. The published levels in these bands should be considered to be the upper boundary of the exact level – the true level is likely to be lower in level than the calculated values. The overall sound power level, L<sub>wA</sub>, does meet the requirements of the ISO-3744 Standard, in terms of ambient noise. However, the acoustical environment does not meet the ISO-3744 Standard in any of the 1/3 octave bands. Therefore, the published levels in all of the bands, including the overall L<sub>wA</sub>, should be considered as the upper boundary of the actual level.

### Configurations

There was no significant difference in sound power level between the configurations. The only statistically important variation was the amplitude of a 9kHz tone, which was highest with Configuration 2. This tone could be a sub-harmonic of the switching circuitry, which runs at 18kHz.

### Noise Modeling

In all of the configurations tested, the relatively broadband noise from the blower dominated the noise character. There is also significant tonality at the 160 Hz band from the blower. The directionality in the noise generation appears to be modest, with all four sides fitting within a 2 dB window. The relatively uniform directivity is due to the presence of air inlets or outlets on all four sides as well as at the bottom of the inverter. As there are no openings in the top of the inverter, the levels at the top typically measured 7 dB lower than the sides of the unit.

With the configurations tested, we would model the unit as a box with uniform directivity at an elevation of approximately 1m.

• • •

Please feel free to call if you have any questions; we may be reached in our San Francisco office by telephone at (+1) 415-693-0424 or via email at [tyler@va-consult.com](mailto:tyler@va-consult.com).

Sincerely,



Tyler Rynberg, PE

Vibro Acoustic Consultants

**Table 1: AEI Solaron 500 Sound Power Measurements – Calculated Sound Power Levels in dB, re: 1x10<sup>-12</sup> W**

Configuration	LWA	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz
1	83.5	77.5	81.0	77.0	80.0	84.0	87.5	79.0	75.5	77.0	76.0	77.5	73.0	74.0	74.0	71.0	70.0	68.0	65.0	64.5	64.5	63.0	58.5	67.5	66.5
2	84.0	77.5	80.5	77.0	80.0	84.0	87.5	78.5	75.5	76.5	76.0	78.0	73.5	74.0	74.0	71.0	70.0	68.0	66.0	66.0	65.5	65.0	62.5	72.0	72.0
3	83.5	77.0	80.5	76.5	80.0	83.5	87.5	78.5	75.5	76.5	77.5	78.0	73.5	74.5	74.0	71.5	72.0	69.5	66.5	65.5	64.5	63.0	58.0	63.0	61.5
4	83.0	77.0	77.0	76.5	80.0	83.5	87.5	78.5	73.5	76.5	76.0	77.5	73.5	74.0	74.0	71.0	70.0	67.5	65.0	64.5	64.5	63.0	58.0	61.5	61.5

\*The testing environment did not meet the requirements in the ISO-3744 Standard. The presented data in all 1/3 octave bands should be considered as the upper boundary of the exact sound power levels.

**Table 2: AEI Solaron 500 Configuration 1 – Measured Sound Pressure Level at 1m in dB, re: 20µPa**

Mic Position	dBA	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz
Front	67.7	61.0	69.0	61.0	63.9	68.4	75.2	61.7	57.2	59.5	58.5	59.7	55.9	58.1	57.7	56.1	54.5	51.3	49.5	49.5	48.9	48.1	43.6	52.2	51.1
Left	66.1	59.0	61.1	61.9	65.0	67.4	66.0	59.1	61.0	60.4	61.5	61.9	57.3	56.7	56.4	53.2	52.5	50.3	47.9	46.6	45.8	42.8	39.3	49.3	48.5
Rear	67.8	61.0	65.5	60.1	62.4	65.9	68.3	64.4	59.9	59.4	59.3	59.9	57.3	58.9	60.1	56.3	55.4	52.2	50.7	49.5	49.6	48.7	44.0	54.3	54.7
Right	67.7	58.2	65.6	57.1	63.1	68.7	75.0	66.6	58.9	63.5	58.2	60.8	57.0	56.7	57.1	54.1	52.6	50.2	47.5	46.9	46.9	47.0	41.5	51.9	51.3
Front Top	64.3	60.6	59.4	59.2	61.2	66.7	67.9	56.7	56.2	56.9	57.7	59.5	54.3	55.3	54.5	51.9	51.2	49.3	46.7	45.8	45.5	43.0	39.1	48.2	43.7
Left Top	63.9	60.7	60.6	59.6	59.8	63.0	62.6	55.7	54.2	58.3	56.9	59.7	55.2	55.8	55.0	52.3	50.4	49.3	46.2	45.1	45.0	42.5	38.0	46.7	42.9
Rear Top	64.8	59.5	60.1	57.4	62.5	65.8	62.5	55.8	56.8	58.9	59.3	60.7	55.9	55.1	56.5	52.7	52.2	50.7	46.6	45.9	46.8	45.1	39.7	47.2	43.3
Right Top	64.9	59.8	60.3	56.9	63.4	67.5	67.5	59.4	54.3	56.8	56.3	60.1	55.0	55.4	56.1	52.7	52.7	51.0	47.9	47.2	47.0	46.1	40.9	45.5	43.8
Top	62.3	60.6	59.6	58.3	60.9	64.3	67.7	59.1	57.5	55.8	56.6	56.4	52.5	52.3	52.3	49.9	48.4	49.5	44.4	43.3	46.3	42.7	35.8	41.3	38.5

\*The testing environment did not meet the requirements in the ISO-3744 Standard. The presented data in all 1/3 octave bands should be considered as the upper boundary of the exact sound power levels.

**Table 3: AEI Solaron 500 Configuration 2 – Measured Sound Pressure Level at 1m in dB, re: 20µPa**

Mic Position	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz
Front	68.3	60.9	67.3	61.5	64.2	74.7	61.9	57.4	59.1	58.8	61.4	56.7	58.7	57.8	55.8	54.8	51.6	50.7	50.6	49.8	49.4	47.5	57.4	57.6
Left	66.7	58.7	61.1	62.0	65.0	67.5	58.8	62.6	59.5	62.1	62.1	56.9	57.3	56.7	53.3	52.3	50.3	48.9	48.4	47.4	45.4	44.6	53.9	48.5
Rear	68.1	61.0	65.1	60.2	62.3	64.7	63.1	58.2	59.0	59.8	60.1	57.7	59.1	59.9	55.9	55.2	52.1	51.3	51.1	50.3	50.6	48.4	57.1	59.5
Right	68.1	58.3	65.5	57.0	63.0	68.5	66.5	59.6	63.3	58.2	61.0	56.9	56.6	56.8	54.0	52.6	50.3	49.1	49.2	48.3	48.9	46.6	56.9	57.1
Front Top	64.7	60.8	59.2	58.8	61.2	67.0	68.4	56.6	55.7	56.6	57.7	53.9	55.4	55.0	52.6	51.3	49.6	47.7	47.4	46.2	44.9	43.0	51.8	49.3
Left Top	64.6	59.9	60.7	59.3	58.8	62.2	65.7	57.4	56.0	57.2	60.6	56.5	54.7	54.7	52.4	50.4	49.5	47.1	47.5	47.0	45.8	43.3	53.0	50.3
Rear Top	65.1	60.2	59.9	57.2	61.8	65.4	62.0	56.9	59.2	59.2	60.1	56.1	56.1	55.5	52.9	52.4	50.5	48.0	47.6	47.8	46.8	42.9	50.2	49.8
Right Top	65.1	59.5	59.7	56.8	63.7	67.1	68.1	60.1	54.2	57.3	59.9	55.2	55.5	55.5	52.7	52.9	50.4	48.5	48.4	47.5	47.3	44.2	51.4	49.2
Top	62.5	60.1	58.8	58.2	61.3	63.9	67.6	59.0	56.3	56.2	57.0	52.5	51.9	52.5	50.3	48.8	49.3	45.1	44.3	46.4	43.5	38.8	48.2	44.7

\*The testing environment did not meet the requirements in the ISO-3744 Standard. The presented data in all 1/3 octave bands should be considered as the upper boundary of the exact sound power levels.

**Table 4: AEI Solaron 500 Configuration 3 – Measured Sound Pressure Level at 1m in dB, re: 20µPa**

Mic Position	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz
Front	68.0	60.8	67.6	61.4	64.0	68.3	74.8	62.0	57.2	58.7	60.9	57.0	58.7	58.1	56.2	57.5	52.4	50.9	50.2	48.9	47.6	43.0	48.6	46.1
Left	67.0	58.5	61.2	61.6	64.7	67.1	66.3	59.0	62.3	60.7	63.5	56.6	56.5	56.7	53.7	54.8	52.5	49.3	47.6	45.8	42.8	38.7	45.2	43.7
Rear	67.9	61.2	65.8	60.2	62.3	64.4	67.4	63.1	58.7	58.6	60.4	58.0	60.2	59.9	56.4	56.2	55.3	51.3	50.6	49.5	49.0	43.8	49.4	49.0
Right	67.3	58.6	66.1	57.5	62.3	68.2	74.1	66.2	59.6	62.8	59.5	57.1	57.1	57.0	54.1	53.7	51.5	50.1	48.4	46.9	47.0	41.5	48.0	47.0
Front Top	65.1	60.2	58.7	59.0	61.5	67.3	68.5	56.6	55.8	57.7	59.4	55.0	55.5	55.1	53.9	53.6	50.9	48.2	46.5	45.3	43.1	38.2	42.9	39.7
Left Top	64.8	59.7	60.3	58.9	58.1	61.9	65.4	58.0	55.6	58.1	59.8	55.3	55.9	55.2	53.3	55.4	51.0	47.3	46.1	45.6	42.9	37.5	42.6	39.6
Rear Top	65.5	58.5	58.9	55.3	61.3	64.2	61.1	55.3	58.4	59.0	61.5	56.6	56.8	56.5	53.3	54.1	51.8	48.3	46.5	47.2	45.5	39.3	42.5	39.3
Right Top	65.6	59.0	60.4	56.6	63.1	66.4	67.6	58.9	52.9	58.4	61.2	55.2	56.1	56.2	54.3	54.3	52.1	48.8	47.5	47.0	46.1	40.9	43.2	40.1
Top	62.7	59.5	58.5	57.7	61.3	64.6	67.6	58.8	56.1	56.3	57.2	53.2	52.5	53.1	50.3	49.7	50.1	45.1	43.7	45.7	42.4	35.0	37.1	33.7

\*The testing environment did not meet the requirements in the ISO-3744 Standard. The presented data in all 1/3 octave bands should be considered as the upper boundary of the exact sound power levels.

**Table 5: AEI Solaron 500 Configuration 4 – Measured Sound Pressure Level at 1m in dB, re: 20µPa**

Mic Position	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz
Front	67.5	59.6	62.3	61.0	64.0	68.2	75.2	61.9	55.6	58.9	58.2	56.0	58.0	57.9	55.8	54.7	51.2	49.1	49.2	49.1	47.8	43.1	46.9	47.5
Left	65.6	57.9	59.9	61.9	64.9	67.1	66.3	58.2	56.8	59.4	61.2	56.9	56.7	56.1	53.2	52.5	50.2	47.5	46.4	45.8	42.4	38.7	45.5	43.8
Rear	67.0	60.3	61.2	60.0	62.0	64.4	67.6	63.8	59.3	58.2	59.1	56.8	58.8	59.7	55.9	55.0	51.6	50.1	49.4	49.4	48.5	43.5	47.2	48.8
Right	66.8	56.4	59.8	56.6	62.2	67.6	73.8	65.8	57.7	63.7	58.8	57.1	56.1	57.0	53.8	52.3	49.7	46.7	46.9	46.8	46.6	41.1	46.3	46.2
Front Top	64.1	60.8	58.7	61.1	65.5	68.1	65.0	56.0	54.7	57.0	57.8	54.8	56.1	54.7	51.8	50.2	49.1	46.1	45.7	45.3	42.7	37.8	41.4	39.5
Left Top	64.0	59.2	58.6	59.1	58.3	62.1	65.6	57.9	55.7	57.6	57.3	55.5	55.6	54.7	52.1	50.8	49.0	45.7	45.1	45.7	42.9	37.6	42.7	40.0
Rear Top	64.8	59.8	59.0	58.0	63.1	65.3	63.4	56.7	54.3	57.2	58.1	56.1	55.5	56.8	53.9	51.8	50.2	46.6	45.7	47.0	46.0	39.4	40.5	38.9
Right Top	65.0	59.8	57.9	64.4	67.4	68.1	60.3	53.4	57.2	55.4	59.9	57.1	55.6	55.9	54.2	52.9	50.2	47.6	47.0	46.8	46.1	40.5	41.7	40.9
Top	62.3	60.3	58.4	61.1	63.0	67.1	58.7	53.3	56.1	56.8	57.5	53.0	52.8	53.0	49.6	47.6	49.5	44.2	43.0	45.9	42.3	34.9	35.3	34.3

\*The testing environment did not meet the requirements in the ISO-3744 Standard. The presented data in all 1/3 octave bands should be considered as the upper boundary of the exact sound power levels.

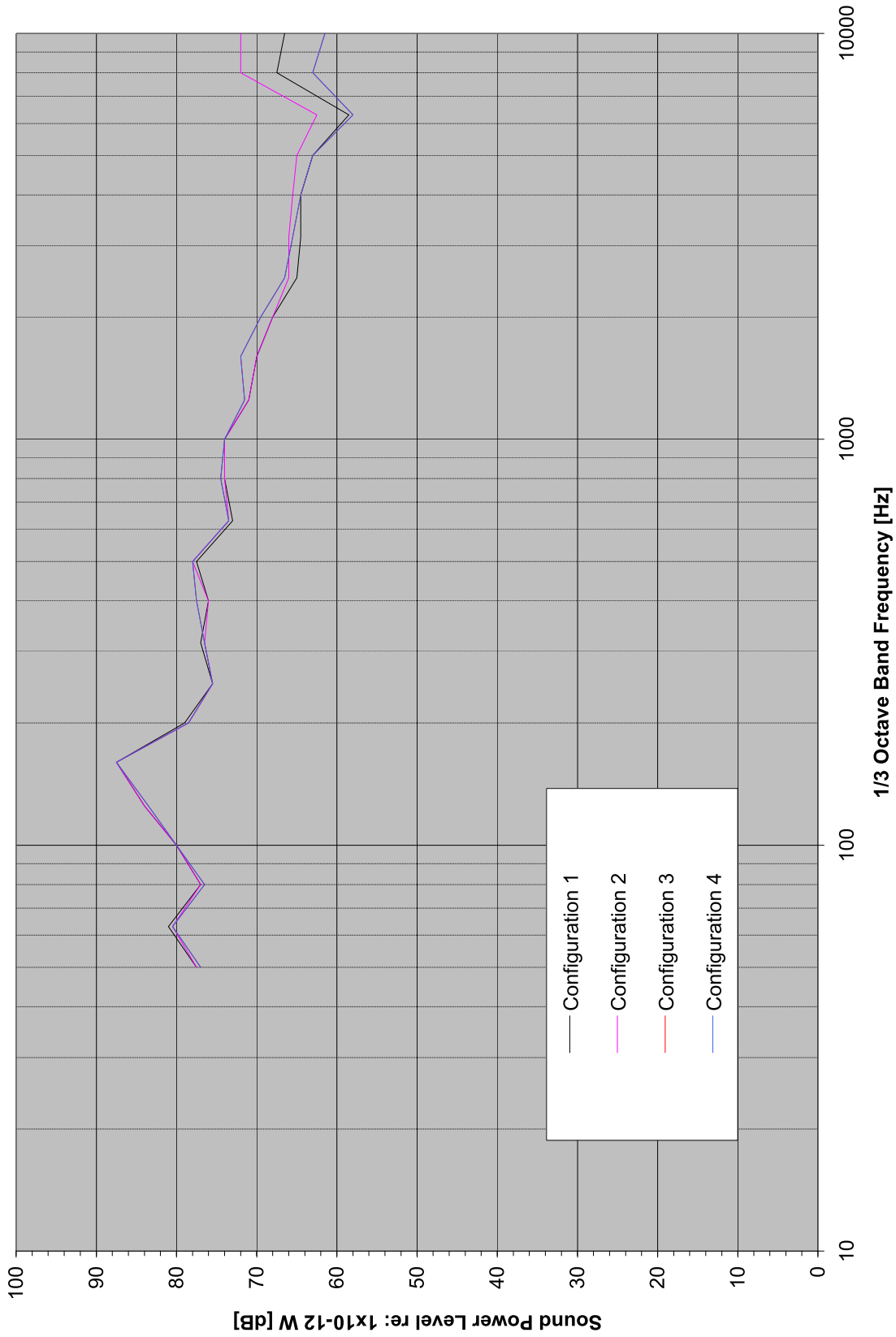
**Table 6: AEI Solaron 500 Configuration 5 – Measured Sound Pressure Level at 1m in dB, re: 20µPa**

Mic Position	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz
Front	67.4	60.5	63.3	61.3	63.9	68.1	74.6	61.9	56.2	58.9	58.5	56.1	58.2	57.4	55.8	54.8	51.5	49.2	48.8	48.6	47.5	42.6	45.6	45.3

\*The testing environment did not meet the requirements in the ISO-3744 Standard. The presented data in all 1/3 octave bands should be considered as the upper boundary of the exact sound power levels.



**Table 7: AEI Solaron 500 – 1/3 Octave Band Sound Power Levels in dB, re:  $1 \times 10^{-12}$  W**



Preliminary Sound Level Measurements PV GEN II  
 Measurements are in dBA

Model	No Power		Full Power		Date	NOTES
	1 meter	3 meters	1 meter	3 meters		
30kw	Back	55	<del>57</del>	58.5	10/23/08	LOAD IN WAY
	Right Side	55.1	<del>57</del>	58.7	10/23/08	WATER NOISE
	Front	55.4	<del>57.6</del>	58.7	10/23/08	
	Left Side	55.2	<del>59.5</del>	59.5	10/23/08	LOAD IN WAY
50kw COASTAL	Back	55.7	<del>62.5</del>	62.5	10/23/08	LOAD IN WAY
	Right Side	55.1	<del>62.6</del>	62.6	10/23/08	EQUIPMENT IN WAY
	Front	54.1	<del>61.6</del>	67.2	10/23/08	
	Left Side	53.2	<del>60.2</del>	60.2	10/23/08	EQUIPMENT IN WAY
50kw	Back	53.9	52.9	62.4	10/24/08	
	Right Side	52.6	52	63.2	10/24/08	
	Front	52.7	52.2	67.6	10/24/08	
	Left Side	52.1	51.5	61.2	10/24/08	
75kw	Back	54.6	53	65.5	10/24/08	
	Right Side	55.8	52.8	66.5	10/24/08	
	Front	56.4	55.9	73.8	10/24/08	
	Left Side	56.2	55.9	65.4	10/24/08	
100kw	Back					use 75 kw
	Right Side					
	Front					
	Left Side					
135kw	Back	58.5	<del>62.7</del>	62.7	10/23/08	LOAD IN WAY WATER NOISE
	Right Side	58.6	<del>62.4</del>	62.4	10/23/08	WALL IN WAY WATER NOISE
	Front	56.5	<del>63</del>	63	10/23/08	
	Left Side	57.5	<del>60.4</del>	61	10/23/08	
250kw	Back					use 375 kw
	Right Side					
	Front					
	Left Side					
375kw	Front DC	53.7	52.4	70.1	10/24/08	
	Front IV	53.8	52.7	70	10/24/08	
	Front AC	53.4	52.6	69.5	10/24/08	
	Front TRO	53.5	52.9	68.3	10/24/08	
500kw	Back	61.1	63.8	72	10/21/08	
	Right Side	60	57.6	72.5	10/21/08	
	Front	58.2	56.9	68.7	10/21/08	
	Left Side	60.4	59.6	68	10/21/08	

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## Appendix E

### Transformer Noise NEMA Ratings

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**Table 8**  
**Audible Sound Levels for Single- and Three-Phase Transformers and Autotransformers, Equivalent Two-Winding Rating, MV·A<sup>(1)</sup>**

Average sound level, dB A-weighted	High voltage maximum operating kV								
	Up to 72.5			123 and 145			170 and 245		
	a	b	c	a	b	c	a	b	c
60	1.5								
61	2.0								
62	2.5								
63	3.0								
64	4.0								
65	5.0								
66	6.0								
67	7.5								
68	10	7.5							
69	12.5	9.4		7.5					
70	15	12.5		10	7.5		7.5		
71	20	16.7		12.5	9.4		10	7.5	
72	25	20	20.8	15	12.5		12.5	9.4	
73	30	26.7	25	20	16.7		15	12.5	
74	40	33.3	33.3	25	20	20.8	20	16.7	
75	50	40	41.7	30	26.7	25	25	20	20.8
76	60	53.3	50	40	33.3	33.3	30	26.7	25
77	80	66.7	66.7	50	40	41.7	40	33.3	33.3
78	100	80	83.3	60	53.3	50	50	40	41.7
79	125	107	100	80	66.7	66.7	60	53.3	50
80	150	133	133	100	80	83.3	80	66.7	66.7
81	200	167	167	125	107	100	100	80	83.3
82	250	200	200	150	133	133	125	107	100
83	300	267	250	200	167	167	150	133	133
84	400	333	300	250	200	200	200	167	167
85	500	400	400	300	267	250	250	200	200
86	600	533	500	400	333	300	300	267	250
87		667	600	500	400	400	400	333	300
88		800	800	600	533	500	500	400	400
89			1000		667	600	600	533	500
90					800	800		667	600
91						1000		800	800
92									1000
93									
94									
95									

(Continued)

Table 8 (Concluded)

Average sound level, dB A-weighted	High voltage maximum operating kV								
	300			362			420 to 765		
	a	b	c	a	b	c	a	b	c
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73	12.5								
74	15			12.5					
75	20	16.7		15			12.5		
76	25	20	20.8	20	16.7		15		
77	30	26.7	25	25	20	20.8	20	16.7	
78	40	33.3	33.3	30	26.7	25	25	20	20.8
79	50	40	41.7	40	33.3	33.3	30	26.7	25
80	60	53.3	50	50	40	41.7	40	33.3	33.3
81	80	66.7	66.7	60	53.3	50	50	40	41.7
82	100	80	83.3	80	66.7	66.7	60	53.3	50
83	125	107	100	100	80	83.3	80	66.7	66.7
84	150	133	133	125	107	100	100	80	83.3
85	200	167	167	150	133	133	125	107	100
86	250	200	200	200	167	167	150	133	133
87	300	267	250	250	200	200	200	167	167
88	400	333	300	300	267	250	250	200	200
89	500	400	400	400	333	300	300	267	250
90	600	533	500	500	400	400	400	333	300
91		667	600	600	533	500	500	400	400
92		800	800		667	600	600	533	500
93			1000		800	800		667	600
94						1000		800	800
95									1000

Notes:

- (1) The equivalent two-winding rating\* is one half the sum of the rating of all windings using the principal tap. When a tertiary (stabilizing) winding is present, either with a known rating or "buried", add 17.5% (35% ÷ 2) or half the rating of the tertiary (whichever is larger) to the otherwise calculated equivalent rating of the transformer. For autotransformers use ((N-1) ÷ N) × rated power of the autotransformer for the autoconnected portion (N is the overall ratio of the autotransformer). For intermediate ratings, use the average sound level of the next highest rating.
  - (2) For ratings less than those shown in Table 8, use the dB A-weighted value for the lowest given rating.
  - (3) For cooling designations, see Clauses 6.5 and 6.6.
  - (4) Columns with heading
    - (a) "a" are applicable to cooling designations: ONAN; ONWF;
    - (b) "b" are applicable to cooling designations: ONAF; OFAF (first stage of auxiliary cooling); and
    - (c) "c" are applicable to cooling designations: ONAF; OFAF or ODAF (second stage of auxiliary cooling and single OFAF or ODAF ratings).
  - (5) For OFWF cooling, use Column "c" minus 1 dB A-weighted.
- \*The base rating is different from equivalent two-winding rating. Base rating is the equivalent ONAN rating only.

## 4.4 Loading capabilities

### 4.4.1

The loading capabilities of transformers shall be in accordance with ANSI/IEEE C57.91.

### 4.4.2

Leads, terminals, and switches shall not limit the loading capability.

## 4.5 Off-circuit voltage taps

### 4.5.1

Transformers without taps are the standard. Taps are included as an option in Clause 10(g).

### 4.5.2

High-voltage taps, unless otherwise specified, shall be  $\pm 2.5\%$  and  $\pm 5\%$  of the rated voltage.

### 4.5.3

When a transformer is connected on a tap below rated voltage, the kV•A capacity shall be reduced in direct proportion to the voltage of the tap. When a transformer is connected on a tap above rated voltage, the capacity shall be the rated kV•A of the transformer.

## 4.6 Insulation class and preferred voltages

### 4.6.1 Preferred high-voltage ratings and required BIL ratings

The preferred high-voltage ratings, required BIL ratings, and associated high-voltage terminal components shall be as specified in Table 2.

### 4.6.2 Preferred low-voltage ratings and required BIL ratings

The preferred low-voltage ratings and the required BIL ratings shall be as specified in Table 3.

## 4.7 Operating voltage range

Transformers shall be capable of operating continuously at rated kV•A at 10% above or 5% below rated voltage of the connected tap, but not necessarily within the specified performance limits.

## 4.8 Radio interference

Transformers shall be designed to operate without causing radio interference to exceed the limits set forth in Table 4 when tested in accordance with CAN3-C108.3.1.

## 4.9 Audible sound

Transformers shall be designed so that the audible sound level, when operated at rated voltage and measured in accordance with ANSI/IEEE C57.12.90, shall not exceed the sound levels specified in Table 5.

## 4.10 Short-circuit capabilities

### 4.10.1 General

Transformers shall be built to withstand the mechanical and thermal stresses caused by the short-circuit currents and their corresponding duration as shown in Table 6. Impedance values need not be limited to the minimum values implied by this table except as modified by Clause 4.10.2 when the impedance is over 4%.



**Table 5**  
**Audible sound levels**  
 (See Clause 4.9.)

Transformer size, kV•A	Audible sound level, dBA
75	51
150 –300	55
500	56
750 –1000	58
1500	60
2000	61
2500	62
3000	63

**Table 6**  
**Short-circuit capability**  
 (See Clauses 4.10.1 and 4.10.2.)

Transformer size, kV•A	Withstand capability per unit of base current (symmetrical)	Duration in cycles
75	40	48
150–300	35	60
500–3000	25	120

**Table 7**  
**Minimum transformer impedance**  
 (See Clause 4.11.)

Transformer size, kV•A	Minimum transformer impedance, %
0–150	1.8
225 –300	2.0
500	3.0
750–1000	4.0
>1000	5.0

**Table 7-28.** Approximate overall PWL in dB of generators, excluding the noise of the driver unit.

Generator Speed, rpm	Overall Sound Power Level, dB							
	Rating of Generator, MW							
	0.2	0.5	1	2	5	10	20	50
600	95	99	102	105	109	112	115	119
1200	97	101	104	107	111	114	117	121
1800	98	102	105	108	112	115	118	122
2400	99	103	106	109	113	116	119	123
3600	100	104	107	110	114	117	120	124
4800	101	105	108	111	115	118	121	125

specified positions. The NEMA sound level for a transformer can be provided by the manufacturer. On the basis of field studies of many transformer installations, the PWL in octave bands has been related to the NEMA rating and the area of the four side walls of the unit. This relationship is expressed by Equation 7-23:

$$L_w = \text{NEMA rating} + 10 \log A + C \quad \text{US units}$$

$$L_w = \text{NEMA rating} + 10 \log A + C + 10 \quad \text{SI units}$$

(7-23)

where "NEMA rating" is the A-weighted sound level of the transformer provided by the manufacturer, obtained in accordance with NEMA Standards Publication No. TR 1-1968, *A* is the total surface area of the four side walls of the transformer in ft<sup>2</sup> (m<sup>2</sup>), and *C* is an octave band correction that has different values for different uses, as shown in Table 7-30.

If the exact dimensions of the transformer are not known, an approximation will suffice. If in doubt, estimate the area on the high side. An error of 25% in area will produce a change of only 1 dB in the PWL. Select the most nearly applicable *C* value from Table 7-30. The *C*<sub>1</sub> value assumes normal radiation of sound. The *C*<sub>2</sub> value should be used in regular-shaped confined spaces where standing waves will very likely occur, which typically may produce 6 dB higher sound levels at the transformer harmonic frequencies of 120, 240, 360, 480, and 600 Hz (for 60-Hz line frequency; or other sound frequencies for other line frequencies). Actually, the sound power level of the transformer does not increase in this location, but the sound analysis procedure is more readily handled by presuming that the sound power is increased. The *C*<sub>3</sub> value is an approximation of the noise of a transformer that has grown noisier (by about 10 dB) during its lifetime. This happens occa-

**Table 7-29.** Frequency adjustments in dB for generators, without drive unit: Subtract these values from the overall PWL (Table 7-28) to obtain octave band and A-weighted PWLs.

Octave Frequency Band, Hz	Value to be Subtracted from Overall PWL, dB
31	11
63	8
125	7
250	7
500	7
1000	9
2000	11
4000	14
8000	19
A-weighted (dBA)	4

sionally when the laminations or tie-bolts become loose, and the transformer begins to buzz or rattle. In a highly critical location, it might be wise to use this value. All the Table 7-30 values assume that the transformer initially meets the quoted NEMA sound level rating. Field measurements have shown that transformers may actually have A-weighted sound levels that range from a few decibels (2 or 3 dB) above to as much as 5 or 6 dB below the quoted NEMA value. Quieted transformers that contain various forms of noise control treatments can be pur-

chased at as much as 15 to 20 dB below normal NEMA ratings. If a quieter transformer is purchased and used, insert in Equation 7-23 the lowered sound level rating in place of the regular NEMA rating, and then select the appropriate corrections from Table 7-30.

**Table 7-30.** Octave band corrections in dB to be used in Equation 7-23 for obtaining PWL of transformers in different installation conditions. See notes for details.

Octave Frequency Band, Hz	Octave Band Corrections, dB		
	C <sub>1</sub> , see Note 1	C <sub>2</sub> , see Note 2	C <sub>3</sub> , see Note 3
31	-11	-11	-11
63	-5	-2	-2
125	-3	+3	+3
250	-8	-2	+2
500	-8	-2	+2
1000	-14	-11	-4
2000	-19	-19	-9
4000	-24	-24	-14
8000	-31	-31	-21

Note 1. Use C<sub>1</sub> for outdoor location or for indoor location in a large mechanical room (over about 5000 ft<sup>3</sup> or 140 m<sup>3</sup>) containing many other pieces of mechanical equipment that serve as obstacles to diffuse sound and breakup standing waves.

Note 2. Use C<sub>2</sub> for indoor locations in transformer vaults or small rooms (under about 5000 ft<sup>3</sup> or 140 m<sup>3</sup>) with parallel walls and relatively few other large-size obstacles that can diffuse sound and breakup standing waves.

Note 3. Use C<sub>3</sub> for any location where a serious noise problem would result if the transformer should become noisy above its NEMA rating, following its installation and initial period of use.

## 7-22. MULTIPLE SOURCES

When an assembly of equipment is built up from components, such as those listed in this chapter, the PWL or the normalized 3-ft (0.9-m) distance SPL values of the component parts can be added together, band by band, by decibel addition to obtain the total sound for the assembly. Examples of such combinations are a motor-pump, a fan housing, and a fan-drive motor, a steam turbine and a centrifugal

compressor, etc. If the SPL at 3 ft (0.9 m) is given for one source and the PWL is given for another source, the values should first be converted to similar forms, either SPL or PWL. Conversion from PWL to SPL at the normalized conditions used in the manual [3-ft (0.9-m) distance and 800-ft<sup>2</sup> (74-m<sup>2</sup>) Room Constant] is done by using Equation 4-3 and Figure 4-2 or Table 4-4. Conversion from SPL (at the normalized conditions) to PWL uses the same material but in reverse order; that is, the PWL is calculated from given SPL data.

## 7-23. NOISE SPECIFICATIONS

The noise level estimates given in this manual will probably equal or exceed the actual noise levels of approximately 80 to 90% of all those types of machinery that will be encountered in typical building use. In many cases, actual noise levels may fall 3 to 6 dB (or more) below the estimates. Thus, there appears to be no shortage of available equipment that will fall at or below the estimated noise levels given in the manual, and it would not be discriminatory or unreasonable to specify that purchased equipment for a particular building be required not to exceed the estimated values given here for that equipment. This is especially true if the actual acoustic design of a wall or floor or room treatment is dependent upon one or two particularly noisy pieces of equipment. A noise specification would not be necessary for relatively quiet equipment that does not dictate noise control design for the MER or the building.

**A. WAIVER.** If a noise level specification is required to be met for a particular piece of equipment, and this becomes a "hardship" on the manufacturer or the owner in terms of costs or availability, the noise specification could be waived, depending on the response of all the bidders. If some bidders agree to meet the specification while others do not, this could be a valid basis for selecting the quieter equipment. If no bidders can meet the specification, the specification can be waived, but it may be necessary to reevaluate the noise control requirements of the equipment room, if this particular equipment is so noisy that it is responsible for the noise design in the first place. Of course, it is the primary purpose of this manual to prevent just such situations as this, as too many waivers would negate the value of the noise evaluation as a part of the design phase of the building. If the equipment measured for this study represents a fair sampling, it is likely that most of the equipment would meet a noise specification.

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## Appendix F

### CadnaA Configuration Settings

### Output from Receiver R15

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## Appendix G

### CadnaA Electronic Modeling Files

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Electronic File sent by email

**APPENDIX G**

**VACANT LOTS EXPERIENCE 35 DBA OR HIGHER FROM THE PROJECT**



362000

364000

366000

368000

370000

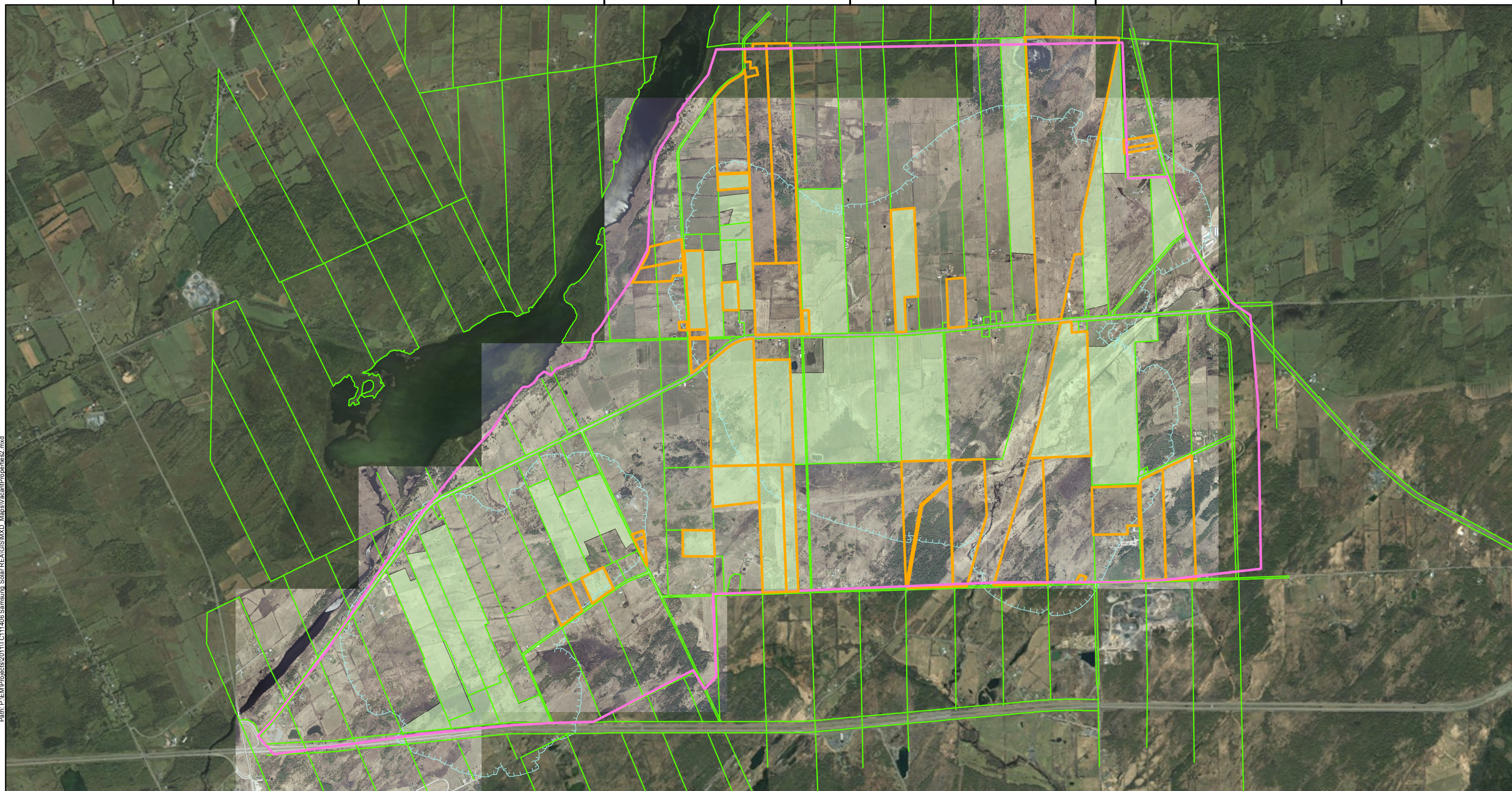
372000

4910000

4908000

4906000

Path: P:\EM\Projects\2011\TC111406\Samsung\_Solar\_REALGIS\MXD\_Maps\VacantProperties2.mxd



### Legend

- Property Boundary
- Project Boundary
- Vacant Lot
- 35 dBA Noise Contours
- Participating Property

NOTES:

**KINGSTON SOLAR LP**



**SOL-LUCE KINGSTON PHASE 2**

**Vacant Lots**

Datum: NAD83  
Projection: UTM Zone 18N



PROJECT N<sup>o</sup>: TC111406

Appendix G

SCALE: 1:30,000

Date: July, 2012





**APPENDIX H**

**POINT OF RECEPTION NOISE IMPACT**

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR001	POR002	POR003	POR004	POR005
<b>Point of Reception Description</b> House 01	<b>Point of Reception Description</b> House 02	<b>Point of Reception Description</b> House 03	<b>Point of Reception Description</b> House 04	<b>Point of Reception Description</b> House 05
<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>
X Y Z <sup>(3)</sup>	X Y Z <sup>(3)</sup>	X Y Z <sup>(3)</sup>	X Y Z <sup>(3)</sup>	X Y Z <sup>(3)</sup>
363674 4905289 135.3	363794 4905429 136.5	364074 4905779 137.3	364166 4905882 136.9	364246 4906051 137.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR	Units <sup>(2)</sup>
7871	0	dBA
7893	0	dBA
7914	0	dBA
7728	0	dBA
7441	0	dBA
7351	0	dBA
7273	0	dBA
7209	0	dBA
7144	0	dBA
7085	0	dBA
7028	0	dBA
6953	0	dBA
6886	0	dBA
6815	0	dBA
6745	0	dBA
5242	0	dBA
4994	0	dBA
5203	0	dBA
5140	0	dBA
5040	0	dBA
4935	0	dBA
4839	0	dBA
4379	0	dBA
6735	0	dBA
6705	0	dBA
6665	0	dBA
6873	0	dBA
6821	0	dBA
6792	0	dBA
6761	0	dBA
5062	0	dBA
5107	0	dBA
5158	0	dBA
5216	0	dBA
5250	0	dBA
5304	0	dBA
5158	0	dBA
5198	0	dBA
5232	0	dBA
5279	0	dBA
5330	0	dBA
5386	0	dBA
5420	0	dBA
5473	0	dBA
5334	0	dBA
5379	0	dBA
5430	0	dBA
5481	0	dBA

Distance (m)	Sound Level at PoR	Units <sup>(2)</sup>
7700	0	dBA
7721	0	dBA
7741	0	dBA
7552	0	dBA
7266	0	dBA
7176	0	dBA
7100	0	dBA
7037	0	dBA
6973	0	dBA
6916	0	dBA
6850	0	dBA
6775	0	dBA
6708	0	dBA
6638	0	dBA
6570	0	dBA
5061	0	dBA
4815	0	dBA
5024	0	dBA
4956	0	dBA
4856	0	dBA
4751	0	dBA
4656	0	dBA
4196	0	dBA
6579	0	dBA
6550	0	dBA
6512	0	dBA
6717	0	dBA
6668	0	dBA
6641	0	dBA
6612	0	dBA
4897	0	dBA
4940	0	dBA
4989	0	dBA
5045	0	dBA
5079	0	dBA
5131	0	dBA
4998	0	dBA
5035	0	dBA
5068	0	dBA
5114	0	dBA
5162	0	dBA
5217	0	dBA
5250	0	dBA
5301	0	dBA
5175	0	dBA
5217	0	dBA
5266	0	dBA
5315	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
7292	0	dBA
7310	0	dBA
7327	0	dBA
7130	0	dBA
6846	0	dBA
6759	0	dBA
6686	0	dBA
6627	0	dBA
6566	0	dBA
6512	0	dBA
6419	0	dBA
6347	0	dBA
6283	0	dBA
6215	0	dBA
6150	0	dBA
4626	0	dBA
4383	0	dBA
4594	0	dBA
4508	0	dBA
4409	0	dBA
4304	0	dBA
4210	0	dBA
3755	0	dBA
6212	0	dBA
6188	0	dBA
6156	0	dBA
6352	0	dBA
6310	0	dBA
6288	0	dBA
6266	0	dBA
4508	0	dBA
4546	0	dBA
4590	0	dBA
4641	0	dBA
4671	0	dBA
4719	0	dBA
4623	0	dBA
4655	0	dBA
4683	0	dBA
4723	0	dBA
4766	0	dBA
4815	0	dBA
4845	0	dBA
4892	0	dBA
4802	0	dBA
4838	0	dBA
4880	0	dBA
4924	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
7164	0	dBA
7181	0	dBA
7197	0	dBA
6999	0	dBA
6715	0	dBA
6629	0	dBA
6557	0	dBA
6498	0	dBA
6439	0	dBA
6386	0	dBA
6285	0	dBA
6214	0	dBA
6150	0	dBA
6084	0	dBA
6019	0	dBA
4491	0	dBA
4249	0	dBA
4460	0	dBA
4370	0	dBA
4271	0	dBA
4167	0	dBA
4072	0	dBA
3618	0	dBA
6097	0	dBA
6074	0	dBA
6045	0	dBA
6237	0	dBA
6198	0	dBA
6178	0	dBA
6157	0	dBA
4387	0	dBA
4423	0	dBA
4465	0	dBA
4515	0	dBA
4544	0	dBA
4591	0	dBA
4506	0	dBA
4536	0	dBA
4563	0	dBA
4601	0	dBA
4642	0	dBA
4690	0	dBA
4719	0	dBA
4765	0	dBA
4686	0	dBA
4720	0	dBA
4760	0	dBA
4802	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
7020	0	dBA
7035	0	dBA
7049	0	dBA
6845	0	dBA
6563	0	dBA
6478	0	dBA
6409	0	dBA
6353	0	dBA
6296	0	dBA
6246	0	dBA
6125	0	dBA
6056	0	dBA
5994	0	dBA
5929	0	dBA
5867	0	dBA
4327	0	dBA
4089	0	dBA
4301	0	dBA
4191	0	dBA
4093	0	dBA
3990	0	dBA
3897	0	dBA
3449	0	dBA
5980	0	dBA
5959	0	dBA
5934	0	dBA
6121	0	dBA
6087	0	dBA
6069	0	dBA
6052	0	dBA
4258	0	dBA
4291	0	dBA
4329	0	dBA
4375	0	dBA
4402	0	dBA
4446	0	dBA
4386	0	dBA
4412	0	dBA
4436	0	dBA
4470	0	dBA
4508	0	dBA
4553	0	dBA
4580	0	dBA
4622	0	dBA
4567	0	dBA
4597	0	dBA
4633	0	dBA
4670	0	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR001**

Point of Reception Description
House 01

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
363674	4905289	135.3

**Point of Reception ID**  
**POR002**

Point of Reception Description
House 02

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
363794	4905429	136.5

**Point of Reception ID**  
**POR003**

Point of Reception Description
House 03

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
364074	4905779	137.3

**Point of Reception ID**  
**POR004**

Point of Reception Description
House 04

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
364166	4905882	136.9

**Point of Reception ID**  
**POR005**

Point of Reception Description
House 05

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
364246	4906051	137.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR	Units <sup>(2)</sup>
5535	0	dB(A)
5596	0	dB(A)
5653	0	dB(A)
4937	0	dB(A)
4985	0	dB(A)
5041	0	dB(A)
5076	0	dB(A)
5136	0	dB(A)
4863	0	dB(A)
4923	0	dB(A)
5005	0	dB(A)
4442	0	dB(A)
4493	0	dB(A)
4537	0	dB(A)
4652	0	dB(A)
2636	0	dB(A)
2678	0	dB(A)
2692	0	dB(A)
2711	0	dB(A)
2490	0	dB(A)
2509	0	dB(A)
2347	0	dB(A)
1398	8	dB(A)
1350	13	dB(A)
1320	19	dB(A)
1316	19	dB(A)
1319	19	dB(A)
1331	19	dB(A)
1351	19	dB(A)
1379	13	dB(A)
1428	13	dB(A)
1234	16	dB(A)
1183	20	dB(A)
1138	20	dB(A)
1137	20	dB(A)
1157	15	dB(A)
1147	15	dB(A)
1028	21	dB(A)
977	22	dB(A)
943	22	dB(A)
930	22	dB(A)
942	22	dB(A)
974	16	dB(A)
1025	16	dB(A)
1478	14	dB(A)
1478	8	dB(A)
1693	13	dB(A)
6755	0	dB(A)
6079	0	dB(A)
6077	0	dB(A)
6080	0	dB(A)
5899	0	dB(A)
5897	0	dB(A)
5900	0	dB(A)
5720	0	dB(A)
5718	0	dB(A)
5720	0	dB(A)

Distance (m)	Sound Level at PoR	Units <sup>(2)</sup>
5368	0	dB(A)
5427	0	dB(A)
5481	0	dB(A)
4768	0	dB(A)
4815	0	dB(A)
4869	0	dB(A)
4904	0	dB(A)
4962	0	dB(A)
4691	0	dB(A)
4749	0	dB(A)
4829	0	dB(A)
4273	0	dB(A)
4322	0	dB(A)
4365	0	dB(A)
4481	0	dB(A)
2467	0	dB(A)
2505	0	dB(A)
2516	0	dB(A)
2534	0	dB(A)
2315	0	dB(A)
2332	0	dB(A)
2167	0	dB(A)
1281	9	dB(A)
1219	14	dB(A)
1177	20	dB(A)
1155	20	dB(A)
1151	20	dB(A)
1157	20	dB(A)
1173	20	dB(A)
1198	14	dB(A)
1244	14	dB(A)
1120	21	dB(A)
1051	21	dB(A)
986	22	dB(A)
969	22	dB(A)
980	16	dB(A)
964	16	dB(A)
925	22	dB(A)
855	23	dB(A)
801	24	dB(A)
771	24	dB(A)
768	24	dB(A)
792	18	dB(A)
842	17	dB(A)
1400	15	dB(A)
1384	9	dB(A)
1605	14	dB(A)
6580	0	dB(A)
5941	0	dB(A)
5940	0	dB(A)
5942	0	dB(A)
5761	0	dB(A)
5759	0	dB(A)
5762	0	dB(A)
5581	0	dB(A)
5579	0	dB(A)
5582	0	dB(A)

Distance (m)	Sound Level at PoR <sup>(1)</sup>	Units <sup>(2)</sup>
4971	0	dB(A)
5024	0	dB(A)
5075	0	dB(A)
4371	0	dB(A)
4413	0	dB(A)
4462	0	dB(A)
4493	0	dB(A)
4547	0	dB(A)
4282	0	dB(A)
4335	0	dB(A)
4410	0	dB(A)
3873	0	dB(A)
3917	0	dB(A)
3956	0	dB(A)
4076	0	dB(A)
2072	0	dB(A)
2099	0	dB(A)
2102	0	dB(A)
2111	0	dB(A)
1904	12	dB(A)
1911	6	dB(A)
1735	17	dB(A)
1093	11	dB(A)
987	16	dB(A)
905	22	dB(A)
814	23	dB(A)
783	24	dB(A)
762	24	dB(A)
756	24	dB(A)
765	18	dB(A)
799	18	dB(A)
956	22	dB(A)
833	23	dB(A)
697	25	dB(A)
611	26	dB(A)
577	21	dB(A)
521	21	dB(A)
819	23	dB(A)
697	25	dB(A)
582	26	dB(A)
482	28	dB(A)
398	30	dB(A)
370	24	dB(A)
395	24	dB(A)
1318	15	dB(A)
1258	9	dB(A)
1483	18	dB(A)
6162	0	dB(A)
5628	0	dB(A)
5626	0	dB(A)
5629	0	dB(A)
5447	0	dB(A)
5445	0	dB(A)
5447	0	dB(A)
5265	0	dB(A)
5264	0	dB(A)
5266	0	dB(A)

Distance (m)	Sound Level at PoR <sup>(1)</sup>	Units <sup>(2)</sup>
4847	0	dB(A)
4899	0	dB(A)
4948	0	dB(A)
4247	0	dB(A)
4288	0	dB(A)
4335	0	dB(A)
4366	0	dB(A)
4418	0	dB(A)
4154	0	dB(A)
4207	0	dB(A)
4279	0	dB(A)
3749	0	dB(A)
3792	0	dB(A)
3829	0	dB(A)
3950	0	dB(A)
1951	15	dB(A)
1975	10	dB(A)
1974	5	dB(A)
1981	5	dB(A)
1778	13	dB(A)
1781	6	dB(A)
1602	17	dB(A)
1060	11	dB(A)
941	16	dB(A)
846	23	dB(A)
726	24	dB(A)
683	25	dB(A)
649	25	dB(A)
632	26	dB(A)
633	20	dB(A)
662	19	dB(A)
936	22	dB(A)
799	24	dB(A)
639	26	dB(A)
524	27	dB(A)
464	22	dB(A)
385	24	dB(A)
827	23	dB(A)
694	25	dB(A)
565	27	dB(A)
442	29	dB(A)
320	32	dB(A)
254	27	dB(A)
258	27	dB(A)
1315	15	dB(A)
1242	10	dB(A)
1464	14	dB(A)
6032	0	dB(A)
5530	0	dB(A)
5528	0	dB(A)
5531	0	dB(A)
5348	0	dB(A)
5347	0	dB(A)
5349	0	dB(A)
5167	0	dB(A)
5165	0	dB(A)
5168	0	dB(A)

Distance (m)	Sound Level at PoR <sup>(1)</sup>	Units <sup>(2)</sup>
4712	0	dB(A)
4760	0	dB(A)
4806	0	dB(A)
4113	0	dB(A)
4150	0	dB(A)
4194	0	dB(A)
4222	0	dB(A)
4272	0	dB(A)
4012	0	dB(A)
4060	0	dB(A)
4129	0	dB(A)
3614	0	dB(A)
3653	0	dB(A)
3687	0	dB(A)
3811	0	dB(A)
1827	16	dB(A)
1842	10	dB(A)
1834	10	dB(A)
1833	10	dB(A)
1642	13	dB(A)
1637	7	dB(A)
1448	18	dB(A)
1095	11	dB(A)
961	16	dB(A)
850	23	dB(A)
690	25	dB(A)
625	26	dB(A)
565	27	dB(A)
520	27	dB(A)
495	22	dB(A)
497	22	dB(A)
992	22	dB(A)
841	23	dB(A)
656	25	dB(A)
502	28	dB(A)
394	24	dB(A)
240	28	dB(A)
920	22	dB(A)
781	24	dB(A)
641	26	dB(A)
504	28	dB(A)
347	31	dB(A)
217	29	dB(A)
117	33	dB(A)
1386	15	dB(A)
1297	9	dB(A)
1511	14	dB(A)
5881	0	dB(A)
5444	0	dB(A)
5442	0	dB(A)
5445	0	dB(A)
5262	0	dB(A)
5260	0	dB(A)
5263	0	dB(A)
5080	0	dB(A)
5079	0	dB(A)
5081	0	dB(A)



**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR001**

**Point of Reception Description**  
 House 01

Point of reception coordinates		
X	Y	Z <sup>[1]</sup>
363674	4905289	135.3

**Point of Reception ID**  
**POR002**

**Point of Reception Description**  
 House 02

Point of reception coordinates		
X	Y	Z <sup>[1]</sup>
363794	4905429	136.5

**Point of Reception ID**  
**POR003**

**Point of Reception Description**  
 House 03

Point of reception coordinates		
X	Y	Z <sup>[1]</sup>
364074	4905779	137.3

**Point of Reception ID**  
**POR004**

**Point of Reception Description**  
 House 04

Point of reception coordinates		
X	Y	Z <sup>[1]</sup>
364166	4905882	136.9

**Point of Reception ID**  
**POR005**

**Point of Reception Description**  
 House 05

Point of reception coordinates		
X	Y	Z <sup>[1]</sup>
364246	4906051	137.5

Source ID <sup>[1]</sup>	Source Description
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit

Distance (m)	Sound Level at PoR	Units <sup>[2]</sup>
5888	0	dBA
5886	0	dBA
5888	0	dBA
6335	0	dBA
6333	0	dBA
6335	0	dBA
6200	0	dBA
6198	0	dBA
6201	0	dBA
6186	0	dBA
6184	0	dBA
6186	0	dBA
6043	0	dBA
6040	0	dBA
6043	0	dBA
5815	0	dBA
5812	0	dBA
5815	0	dBA
6041	0	dBA
6039	0	dBA
6042	0	dBA
6077	0	dBA
3515	0	dBA
3520	0	dBA
3636	0	dBA
3647	0	dBA
3758	0	dBA
3771	0	dBA
3882	0	dBA
3898	0	dBA
4006	0	dBA
4026	0	dBA
4134	0	dBA

Distance (m)	Sound Level at PoR	Units <sup>[2]</sup>
5742	0	dBA
5739	0	dBA
5742	0	dBA
6190	0	dBA
6188	0	dBA
6191	0	dBA
6058	0	dBA
6056	0	dBA
6059	0	dBA
6041	0	dBA
6039	0	dBA
6041	0	dBA
5897	0	dBA
5895	0	dBA
5897	0	dBA
5672	0	dBA
5670	0	dBA
5672	0	dBA
5900	0	dBA
5898	0	dBA
5901	0	dBA
5942	0	dBA
3495	0	dBA
3509	0	dBA
3620	0	dBA
3640	0	dBA
3747	0	dBA
3768	0	dBA
3874	0	dBA
3898	0	dBA
4001	0	dBA
4029	0	dBA
4132	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
5404	0	dBA
5402	0	dBA
5405	0	dBA
5857	0	dBA
5855	0	dBA
5857	0	dBA
5732	0	dBA
5730	0	dBA
5733	0	dBA
5706	0	dBA
5704	0	dBA
5706	0	dBA
5561	0	dBA
5559	0	dBA
5561	0	dBA
5344	0	dBA
5342	0	dBA
5345	0	dBA
5577	0	dBA
5576	0	dBA
5578	0	dBA
5635	0	dBA
3500	0	dBA
3540	0	dBA
3637	0	dBA
3678	0	dBA
3771	0	dBA
3813	0	dBA
3905	0	dBA
3949	0	dBA
4039	0	dBA
4086	0	dBA
4176	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
5299	0	dBA
5297	0	dBA
5299	0	dBA
5753	0	dBA
5751	0	dBA
5753	0	dBA
5630	0	dBA
5629	0	dBA
5631	0	dBA
5601	0	dBA
5600	0	dBA
5602	0	dBA
5456	0	dBA
5454	0	dBA
5457	0	dBA
5242	0	dBA
5240	0	dBA
5243	0	dBA
5477	0	dBA
5475	0	dBA
5478	0	dBA
5539	0	dBA
3506	0	dBA
3553	0	dBA
3646	0	dBA
3693	0	dBA
3782	0	dBA
3830	0	dBA
3918	0	dBA
3968	0	dBA
4054	0	dBA
4106	0	dBA
4192	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
5200	0	dBA
5198	0	dBA
5200	0	dBA
5655	0	dBA
5653	0	dBA
5656	0	dBA
5537	0	dBA
5535	0	dBA
5538	0	dBA
5503	0	dBA
5502	0	dBA
5504	0	dBA
5357	0	dBA
5356	0	dBA
5358	0	dBA
5149	0	dBA
5147	0	dBA
5150	0	dBA
5385	0	dBA
5384	0	dBA
5386	0	dBA
5457	0	dBA
3574	0	dBA
3631	0	dBA
3717	0	dBA
3772	0	dBA
3856	0	dBA
3911	0	dBA
3994	0	dBA
4051	0	dBA
4131	0	dBA
4191	0	dBA
4272	0	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID <b>POR006</b>	Point of Reception ID <b>POR007</b>	Point of Reception ID <b>POR008</b>	Point of Reception ID <b>POR009</b>	Point of Reception ID <b>POR010</b>
<b>Point of Reception Description</b> House 06	<b>Point of Reception Description</b> House 07	<b>Point of Reception Description</b> House 08	<b>Point of Reception Description</b> House 09	<b>Point of Reception Description</b> House 10
<b>Point of reception coordinates</b> X Y Z <sup>[3]</sup>	<b>Point of reception coordinates</b> X Y Z <sup>[3]</sup>	<b>Point of reception coordinates</b> X Y Z <sup>[3]</sup>	<b>Point of reception coordinates</b> X Y Z <sup>[3]</sup>	<b>Point of reception coordinates</b> X Y Z <sup>[3]</sup>
364328 4906180 137.3	364435 4906341 137.5	364423 4906517 136.2	364535 4906443 137.5	364496 4906731 134.3

Source ID <sup>[1]</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2/U1_U3
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_U1	MVPP P7/9/10_U1
MVPP_P7_9_U2	MVPP P7/9/10_U2
MVPP_P7_9_U3	MVPP P7/9/10_U3
MVPP_P7_9_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
6892	0	dBA
6905	0	dBA
6918	0	dBA
6711	0	dBA
6429	0	dBA
6346	0	dBA
6278	0	dBA
6224	0	dBA
6169	0	dBA
6121	0	dBA
5986	0	dBA
5918	0	dBA
5857	0	dBA
5795	0	dBA
5734	0	dBA
4186	0	dBA
3950	0	dBA
4164	0	dBA
4041	0	dBA
3943	0	dBA
3841	0	dBA
3749	0	dBA
3305	0	dBA
5872	0	dBA
5853	0	dBA
5831	0	dBA
6013	0	dBA
5983	0	dBA
5967	0	dBA
5953	0	dBA
4142	0	dBA
4172	0	dBA
4208	0	dBA
4251	0	dBA
4277	0	dBA
4318	0	dBA
4277	0	dBA
4300	0	dBA
4322	0	dBA
4353	0	dBA
4388	0	dBA
4430	0	dBA
4455	0	dBA
4496	0	dBA
4458	0	dBA
4485	0	dBA
4518	0	dBA
4552	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
6730	0	dBA
6741	0	dBA
6752	0	dBA
6540	0	dBA
6260	0	dBA
6179	0	dBA
6113	0	dBA
6061	0	dBA
6008	0	dBA
5962	0	dBA
5810	0	dBA
5744	0	dBA
5685	0	dBA
5624	0	dBA
5565	0	dBA
4008	0	dBA
3776	0	dBA
3990	0	dBA
3850	0	dBA
3753	0	dBA
3653	0	dBA
3562	0	dBA
3122	0	dBA
5736	0	dBA
5720	0	dBA
5702	0	dBA
5878	0	dBA
5852	0	dBA
5840	0	dBA
5829	0	dBA
3997	0	dBA
4024	0	dBA
4056	0	dBA
4095	0	dBA
4119	0	dBA
4158	0	dBA
4141	0	dBA
4160	0	dBA
4179	0	dBA
4206	0	dBA
4238	0	dBA
4276	0	dBA
4299	0	dBA
4337	0	dBA
4323	0	dBA
4345	0	dBA
4374	0	dBA
4404	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
6673	0	dBA
6681	0	dBA
6690	0	dBA
6470	0	dBA
6191	0	dBA
6114	0	dBA
6052	0	dBA
6003	0	dBA
5955	0	dBA
5912	0	dBA
5730	0	dBA
5667	0	dBA
5611	0	dBA
5554	0	dBA
5499	0	dBA
3924	0	dBA
3699	0	dBA
3915	0	dBA
3732	0	dBA
3639	0	dBA
3542	0	dBA
3456	0	dBA
3030	0	dBA
5718	0	dBA
5706	0	dBA
5692	0	dBA
5861	0	dBA
5841	0	dBA
5832	0	dBA
5825	0	dBA
3969	0	dBA
3990	0	dBA
4017	0	dBA
4050	0	dBA
4071	0	dBA
4105	0	dBA
4124	0	dBA
4138	0	dBA
4153	0	dBA
4175	0	dBA
4202	0	dBA
4234	0	dBA
4254	0	dBA
4288	0	dBA
4307	0	dBA
4323	0	dBA
4346	0	dBA
4372	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
6598	0	dBA
6608	0	dBA
6618	0	dBA
6404	0	dBA
6124	0	dBA
6044	0	dBA
5979	0	dBA
5928	0	dBA
5877	0	dBA
5832	0	dBA
5671	0	dBA
5606	0	dBA
5547	0	dBA
5487	0	dBA
5430	0	dBA
3868	0	dBA
3637	0	dBA
3852	0	dBA
3707	0	dBA
3610	0	dBA
3510	0	dBA
3419	0	dBA
2981	0	dBA
5619	0	dBA
5605	0	dBA
5589	0	dBA
5762	0	dBA
5739	0	dBA
5729	0	dBA
5719	0	dBA
3876	0	dBA
3900	0	dBA
3930	0	dBA
3967	0	dBA
3989	0	dBA
4026	0	dBA
4024	0	dBA
4041	0	dBA
4058	0	dBA
4083	0	dBA
4113	0	dBA
4149	0	dBA
4171	0	dBA
4207	0	dBA
4207	0	dBA
4227	0	dBA
4252	0	dBA
4281	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
6529	0	dBA
6533	0	dBA
6539	0	dBA
6311	0	dBA
6035	0	dBA
5961	0	dBA
5903	0	dBA
5858	0	dBA
5814	0	dBA
5776	0	dBA
5561	0	dBA
5502	0	dBA
5449	0	dBA
5395	0	dBA
5345	0	dBA
3754	0	dBA
3537	0	dBA
3754	0	dBA
3530	0	dBA
3440	0	dBA
3348	0	dBA
3265	0	dBA
2853	0	dBA
5617	0	dBA
5609	0	dBA
5601	0	dBA
5761	0	dBA
5748	0	dBA
5744	0	dBA
5742	0	dBA
5742	0	dBA
5742	0	dBA
5742	0	dBA
3859	0	dBA
3875	0	dBA
3895	0	dBA
3922	0	dBA
3939	0	dBA
3968	0	dBA
4027	0	dBA
4035	0	dBA
4045	0	dBA
4061	0	dBA
4082	0	dBA
4108	0	dBA
4125	0	dBA
4153	0	dBA
4210	0	dBA
4220	0	dBA
4236	0	dBA
4255	0	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>[1]</sup>	Source Description	Point of Reception ID POR006			Point of Reception ID POR007			Point of Reception ID POR008			Point of Reception ID POR009			Point of Reception ID POR010		
		Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>	Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>	Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>	Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>	Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
MVPP_P14A_U19	MVPP P14A_U19	4591	0	dB(A)	4440	0	dB(A)	4401	0	dB(A)	4314	0	dB(A)	4279	0	dB(A)
MVPP_P14A_U20	MVPP P14A_U20	4637	0	dB(A)	4482	0	dB(A)	4438	0	dB(A)	4354	0	dB(A)	4309	0	dB(A)
MVPP_P14A_U21	MVPP P14A_U21	4680	0	dB(A)	4522	0	dB(A)	4474	0	dB(A)	4393	0	dB(A)	4340	0	dB(A)
MVPP_P14B_U1	MVPP P14B_U1	3993	0	dB(A)	3843	0	dB(A)	3807	0	dB(A)	3718	0	dB(A)	3690	0	dB(A)
MVPP_P14B_U2	MVPP P14B_U2	4027	0	dB(A)	3874	0	dB(A)	3833	0	dB(A)	3747	0	dB(A)	3709	0	dB(A)
MVPP_P14B_U3	MVPP P14B_U3	4069	0	dB(A)	3911	0	dB(A)	3865	0	dB(A)	3783	0	dB(A)	3736	0	dB(A)
MVPP_P14B_U4	MVPP P14B_U4	4095	0	dB(A)	3936	0	dB(A)	3887	0	dB(A)	3806	0	dB(A)	3753	0	dB(A)
MVPP_P14B_U5	MVPP P14B_U5	4143	0	dB(A)	3980	0	dB(A)	3926	0	dB(A)	3848	0	dB(A)	3786	0	dB(A)
MVPP_P14B_U6	MVPP P14B_U6	3886	0	dB(A)	3728	0	dB(A)	3681	0	dB(A)	3598	0	dB(A)	3550	0	dB(A)
MVPP_P14B_U7	MVPP P14B_U7	3932	0	dB(A)	3770	0	dB(A)	3718	0	dB(A)	3639	0	dB(A)	3581	0	dB(A)
MVPP_P14B_U8	MVPP P14B_U8	3998	0	dB(A)	3832	0	dB(A)	3773	0	dB(A)	3699	0	dB(A)	3628	0	dB(A)
MVPP_P14C_U1	MVPP P14C_U1	3494	0	dB(A)	3345	0	dB(A)	3311	0	dB(A)	3221	0	dB(A)	3197	0	dB(A)
MVPP_P14C_U2	MVPP P14C_U2	3530	0	dB(A)	3376	0	dB(A)	3337	0	dB(A)	3250	0	dB(A)	3216	0	dB(A)
MVPP_P14C_U3	MVPP P14C_U3	3562	0	dB(A)	3405	0	dB(A)	3361	0	dB(A)	3277	0	dB(A)	3234	0	dB(A)
MVPP_P14C_U4	MVPP P14C_U4	3688	0	dB(A)	3534	0	dB(A)	3493	0	dB(A)	3406	0	dB(A)	3369	0	dB(A)
MVPP_P19_20_U1	MVPP P19/20_U1	1719	17	dB(A)	1592	17	dB(A)	1596	17	dB(A)	1485	18	dB(A)	1542	14	dB(A)
MVPP_P19_U1	MVPP P19_U1	1726	11	dB(A)	1588	12	dB(A)	1578	12	dB(A)	1473	12	dB(A)	1506	8	dB(A)
MVPP_P19_U2	MVPP P19_U2	1713	11	dB(A)	1566	12	dB(A)	1544	12	dB(A)	1445	13	dB(A)	1458	8	dB(A)
MVPP_P19_U3	MVPP P19_U3	1706	11	dB(A)	1550	12	dB(A)	1515	8	dB(A)	1424	13	dB(A)	1413	8	dB(A)
MVPP_P19_U4	MVPP P19_U4	1525	14	dB(A)	1384	19	dB(A)	1375	19	dB(A)	1270	19	dB(A)	1308	16	dB(A)
MVPP_P19_U5	MVPP P19_U5	1512	12	dB(A)	1362	13	dB(A)	1338	9	dB(A)	1240	14	dB(A)	1253	9	dB(A)
MVPP_P20_U1	MVPP P20_U1	1317	19	dB(A)	1156	20	dB(A)	1120	21	dB(A)	1029	21	dB(A)	1025	18	dB(A)
MVPP_P21_U1	MVPP P21_U1	1127	10	dB(A)	1193	10	dB(A)	1350	9	dB(A)	1234	10	dB(A)	1513	8	dB(A)
MVPP_P21_U2	MVPP P21_U2	985	16	dB(A)	1044	15	dB(A)	1201	11	dB(A)	1083	15	dB(A)	1361	9	dB(A)
MVPP_P21_U3	MVPP P21_U3	864	23	dB(A)	916	22	dB(A)	1070	24	dB(A)	953	22	dB(A)	1231	16	dB(A)
MVPP_P21_U4	MVPP P21_U4	677	25	dB(A)	706	25	dB(A)	855	23	dB(A)	735	24	dB(A)	1011	18	dB(A)
MVPP_P21_U5	MVPP P21_U5	597	26	dB(A)	614	26	dB(A)	759	24	dB(A)	638	26	dB(A)	914	19	dB(A)
MVPP_P21_U6	MVPP P21_U6	516	28	dB(A)	513	28	dB(A)	653	25	dB(A)	530	27	dB(A)	805	20	dB(A)
MVPP_P21_U7	MVPP P21_U7	446	29	dB(A)	416	29	dB(A)	548	27	dB(A)	423	29	dB(A)	697	21	dB(A)
MVPP_P21_U8	MVPP P21_U8	393	24	dB(A)	326	25	dB(A)	445	23	dB(A)	317	26	dB(A)	589	16	dB(A)
MVPP_P21_U9	MVPP P21_U9	364	24	dB(A)	233	28	dB(A)	316	26	dB(A)	183	30	dB(A)	449	23	dB(A)
MVPP_P22_U1	MVPP P22_U1	1043	21	dB(A)	1132	20	dB(A)	1298	16	dB(A)	1191	20	dB(A)	1477	14	dB(A)
MVPP_P22_U2	MVPP P22_U2	885	23	dB(A)	971	22	dB(A)	1137	20	dB(A)	1030	21	dB(A)	1317	15	dB(A)
MVPP_P22_U3	MVPP P22_U3	690	25	dB(A)	772	24	dB(A)	938	22	dB(A)	834	23	dB(A)	1122	17	dB(A)
MVPP_P22_U4	MVPP P22_U4	515	28	dB(A)	588	26	dB(A)	755	24	dB(A)	652	25	dB(A)	941	19	dB(A)
MVPP_P22_U5	MVPP P22_U5	377	24	dB(A)	437	23	dB(A)	604	20	dB(A)	503	22	dB(A)	794	14	dB(A)
MVPP_P22_U6	MVPP P22_U6	167	31	dB(A)	238	28	dB(A)	413	23	dB(A)	341	25	dB(A)	624	16	dB(A)
MVPP_P23_U1	MVPP P23_U1	999	22	dB(A)	1121	21	dB(A)	1294	19	dB(A)	1202	20	dB(A)	1492	14	dB(A)
MVPP_P23_U2	MVPP P23_U2	859	23	dB(A)	983	22	dB(A)	1157	20	dB(A)	1067	21	dB(A)	1358	15	dB(A)
MVPP_P23_U3	MVPP P23_U3	719	25	dB(A)	845	23	dB(A)	1020	21	dB(A)	934	22	dB(A)	1224	16	dB(A)
MVPP_P23_U4	MVPP P23_U4	579	27	dB(A)	709	25	dB(A)	884	23	dB(A)	804	24	dB(A)	1092	17	dB(A)
MVPP_P23_U5	MVPP P23_U5	417	29	dB(A)	554	27	dB(A)	730	24	dB(A)	658	25	dB(A)	942	19	dB(A)
MVPP_P23_U6	MVPP P23_U6	276	27	dB(A)	423	23	dB(A)	599	20	dB(A)	538	21	dB(A)	817	13	dB(A)
MVPP_P23_U7	MVPP P23_U7	136	32	dB(A)	301	26	dB(A)	472	22	dB(A)	430	23	dB(A)	695	15	dB(A)
MVPP_P24_U1	MVPP P24_U1	1441	15	dB(A)	1528	14	dB(A)	1691	13	dB(A)	1580	14	dB(A)	1863	12	dB(A)
MVPP_P24_U2	MVPP P24_U2	1341	9	dB(A)	1417	8	dB(A)	1577	7	dB(A)	1462	8	dB(A)	1742	6	dB(A)
MVPP_P24_U3	MVPP P24_U3	1546	14	dB(A)	1609	14	dB(A)	1762	13	dB(A)	1642	13	dB(A)	1915	12	dB(A)
TS	Transformer Station	5749	0	dB(A)	5582	0	dB(A)	5518	0	dB(A)	5447	0	dB(A)	5366	0	dB(A)
WB_H1T	Hut 1 Transformer	5360	0	dB(A)	5256	0	dB(A)	5276	0	dB(A)	5160	0	dB(A)	5222	0	dB(A)
WB_H1I1	Hut 1 Inverter 1	5358	0	dB(A)	5255	0	dB(A)	5275	0	dB(A)	5159	0	dB(A)	5221	0	dB(A)
WB_H1I2	Hut 1 Inverter 2	5361	0	dB(A)	5257	0	dB(A)	5277	0	dB(A)	5161	0	dB(A)	5224	0	dB(A)
WB_H2T	Hut 2 Transformer	5178	0	dB(A)	5074	0	dB(A)	5095	0	dB(A)	4978	0	dB(A)	5041	0	dB(A)
WB_H2I1	Hut 2 Inverter 1	5177	0	dB(A)	5073	0	dB(A)	5094	0	dB(A)	4977	0	dB(A)	5040	0	dB(A)
WB_H2I2	Hut 2 Inverter 2	5179	0	dB(A)	5076	0	dB(A)	5096	0	dB(A)	4980	0	dB(A)	5043	0	dB(A)
WB_H3T	Hut 3 Transformer	4996	0	dB(A)	4893	0	dB(A)	4913	0	dB(A)	4797	0	dB(A)	4861	0	dB(A)
WB_H3I1	Hut 3 Inverter 1	4995	0	dB(A)	4892	0	dB(A)	4912	0	dB(A)	4796	0	dB(A)	4860	0	dB(A)
WB_H3I2	Hut 3 Inverter 2	4997	0	dB(A)	4894	0	dB(A)	4915	0	dB(A)	4799	0	dB(A)	4862	0	dB(A)

Point of Reception Description	Point of Reception ID
House 06	POR006
House 07	POR007
House 08	POR008
House 09	POR009
House 10	POR010

Point of reception coordinates		
X	Y	Z <sup>[5]</sup>
364328	4906180	137.3

Point of reception coordinates		
X	Y	Z <sup>[5]</sup>
364435	4906341	137.5

Point of reception coordinates		
X	Y	Z <sup>[5]</sup>
364423	4906517	136.2

Point of reception coordinates		
X	Y	Z <sup>[5]</sup>
364535	4906443	137.5

Point of reception coordinates		
X	Y	Z <sup>[5]</sup>
364496	4906731	134.3

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR006</b>			Point of Reception ID <b>POR007</b>			Point of Reception ID <b>POR008</b>			Point of Reception ID <b>POR009</b>			Point of Reception ID <b>POR010</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
		Point of Reception Description House 06			Point of Reception Description House 07			Point of Reception Description House 08			Point of Reception Description House 09			Point of Reception Description House 10		
		Point of reception coordinates X Y Z <sup>(5)</sup>			Point of reception coordinates X Y Z <sup>(5)</sup>			Point of reception coordinates X Y Z <sup>(5)</sup>			Point of reception coordinates X Y Z <sup>(5)</sup>			Point of reception coordinates X Y Z <sup>(5)</sup>		
		364328	4906180	137.3	364435	4906341	137.5	364423	4906517	136.2	364535	4906443	137.5	364496	4906731	134.3
WB_H4T	Hut 4 Transformer	5106	0	dBA	4990	0	dBA	4996	0	dBA	4886	0	dBA	4925	0	dBA
WB_H4I1	Hut 4 Inverter 1	5104	0	dBA	4988	0	dBA	4995	0	dBA	4884	0	dBA	4924	0	dBA
WB_H4I2	Hut 4 Inverter 2	5107	0	dBA	4991	0	dBA	4997	0	dBA	4887	0	dBA	4927	0	dBA
WB_H5T	Hut 5 Transformer	5562	0	dBA	5447	0	dBA	5453	0	dBA	5343	0	dBA	5382	0	dBA
WB_H5I1	Hut 5 Inverter 1	5561	0	dBA	5445	0	dBA	5452	0	dBA	5341	0	dBA	5381	0	dBA
WB_H5I2	Hut 5 Inverter 2	5563	0	dBA	5448	0	dBA	5454	0	dBA	5344	0	dBA	5384	0	dBA
WB_H6T	Hut 6 Transformer	5447	0	dBA	5336	0	dBA	5348	0	dBA	5236	0	dBA	5284	0	dBA
WB_H6I1	Hut 6 Inverter 1	5446	0	dBA	5335	0	dBA	5347	0	dBA	5234	0	dBA	5283	0	dBA
WB_H6I2	Hut 6 Inverter 2	5449	0	dBA	5338	0	dBA	5350	0	dBA	5237	0	dBA	5285	0	dBA
WB_H7T	Hut 7 Transformer	5410	0	dBA	5294	0	dBA	5301	0	dBA	5190	0	dBA	5230	0	dBA
WB_H7I1	Hut 7 Inverter 1	5409	0	dBA	5293	0	dBA	5300	0	dBA	5189	0	dBA	5229	0	dBA
WB_H7I2	Hut 7 Inverter 2	5411	0	dBA	5295	0	dBA	5302	0	dBA	5192	0	dBA	5231	0	dBA
WB_H8T	Hut 8 Transformer	5264	0	dBA	5148	0	dBA	5154	0	dBA	5044	0	dBA	5084	0	dBA
WB_H8I1	Hut 8 Inverter 1	5262	0	dBA	5146	0	dBA	5153	0	dBA	5043	0	dBA	5082	0	dBA
WB_H8I2	Hut 8 Inverter 2	5265	0	dBA	5149	0	dBA	5156	0	dBA	5045	0	dBA	5085	0	dBA
WB_H9T	Hut 9 Transformer	5059	0	dBA	4949	0	dBA	4962	0	dBA	4849	0	dBA	4899	0	dBA
WB_H9I1	Hut 9 Inverter 1	5058	0	dBA	4948	0	dBA	4961	0	dBA	4847	0	dBA	4898	0	dBA
WB_H9I2	Hut 9 Inverter 2	5060	0	dBA	4950	0	dBA	4963	0	dBA	4850	0	dBA	4901	0	dBA
WB_H10T	Hut 10 Transformer	5298	0	dBA	5189	0	dBA	5204	0	dBA	5090	0	dBA	5143	0	dBA
WB_H10I1	Hut 10 Inverter 1	5296	0	dBA	5188	0	dBA	5203	0	dBA	5089	0	dBA	5142	0	dBA
WB_H10I2	Hut 10 Inverter 2	5299	0	dBA	5190	0	dBA	5205	0	dBA	5091	0	dBA	5145	0	dBA
WB_ST	Substation Transformer	5376	0	dBA	5276	0	dBA	5300	0	dBA	5182	0	dBA	5251	0	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	3618	0	dBA	3679	0	dBA	3828	0	dBA	3704	0	dBA	3965	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	3682	0	dBA	3752	0	dBA	3905	0	dBA	3784	0	dBA	4051	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	3764	0	dBA	3828	0	dBA	3978	0	dBA	3854	0	dBA	4117	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	3825	0	dBA	3896	0	dBA	4050	0	dBA	3929	0	dBA	4196	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	3903	0	dBA	3969	0	dBA	4120	0	dBA	3997	0	dBA	4261	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	3965	0	dBA	4038	0	dBA	4192	0	dBA	4071	0	dBA	4339	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	4043	0	dBA	4110	0	dBA	4262	0	dBA	4139	0	dBA	4403	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	4106	0	dBA	4180	0	dBA	4335	0	dBA	4214	0	dBA	4483	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	4182	0	dBA	4251	0	dBA	4403	0	dBA	4280	0	dBA	4546	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	4247	0	dBA	4322	0	dBA	4477	0	dBA	4357	0	dBA	4626	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	4323	0	dBA	4394	0	dBA	4546	0	dBA	4424	0	dBA	4690	0	dBA



**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID  
**POR011**

Point of Reception ID  
**POR012**

Point of Reception ID  
**POR013**

Point of Reception ID  
**POR014**

Point of Reception ID  
**POR015**

Point of Reception Description		
House 11		

Point of Reception Description		
House 12		

Point of Reception Description		
House 13		

Point of Reception Description		
House 14		

Point of Reception Description		
House 15		

Point of reception coordinates		
X	Y	Z <sup>[3]</sup>
364877	4906760	137.7

Point of reception coordinates		
X	Y	Z <sup>[3]</sup>
364575	4906916	133.1

Point of reception coordinates		
X	Y	Z <sup>[3]</sup>
365438	4906947	136.9

X	Y	Z <sup>[3]</sup>
365824	4906970	138.5

X	Z	Z <sup>[5]</sup>
365813	4907340	133.4

Source ID <sup>[1]</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2/U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_U1	MVPP P7/9/10_U1
MVPP_P7_9_U2	MVPP P7/9/10_U2
MVPP_P7_9_U3	MVPP P7/9/10_U3
MVPP_P7_9_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
6162	0	dBA
6168	0	dBA
6176	0	dBA
5955	0	dBA
5677	0	dBA
5600	0	dBA
5539	0	dBA
5492	0	dBA
5444	0	dBA
5404	0	dBA
5215	0	dBA
5152	0	dBA
5096	0	dBA
5039	0	dBA
4985	0	dBA
3410	0	dBA
3184	0	dBA
3400	0	dBA
3242	0	dBA
3145	0	dBA
3044	0	dBA
2953	0	dBA
2518	0	dBA
5235	0	dBA
5227	0	dBA
5218	0	dBA
5379	0	dBA
5365	0	dBA
5361	0	dBA
5359	0	dBA
3478	0	dBA
3495	0	dBA
3517	0	dBA
3546	0	dBA
3565	0	dBA
3597	0	dBA
3644	0	dBA
3653	0	dBA
3664	0	dBA
3681	0	dBA
3703	0	dBA
3731	0	dBA
3750	0	dBA
3780	0	dBA
3828	0	dBA
3838	0	dBA
3855	0	dBA
3876	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
6392	0	dBA
6393	0	dBA
6396	0	dBA
6161	0	dBA
5888	0	dBA
5817	0	dBA
5763	0	dBA
5722	0	dBA
5681	0	dBA
5646	0	dBA
5404	0	dBA
5348	0	dBA
5298	0	dBA
5248	0	dBA
5200	0	dBA
3598	0	dBA
3387	0	dBA
3605	0	dBA
3346	0	dBA
3259	0	dBA
3170	0	dBA
3090	0	dBA
2692	0	dBA
5520	0	dBA
5515	0	dBA
5512	0	dBA
5664	0	dBA
5657	0	dBA
5657	0	dBA
5659	0	dBA
3757	0	dBA
3767	0	dBA
3782	0	dBA
3803	0	dBA
3817	0	dBA
3841	0	dBA
3935	0	dBA
3939	0	dBA
3944	0	dBA
3955	0	dBA
3970	0	dBA
3990	0	dBA
4004	0	dBA
4028	0	dBA
4119	0	dBA
4123	0	dBA
4133	0	dBA
4146	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
5571	0	dBA
5578	0	dBA
5587	0	dBA
5370	0	dBA
5090	0	dBA
5011	0	dBA
4949	0	dBA
4901	0	dBA
4853	0	dBA
4812	0	dBA
4638	0	dBA
4571	0	dBA
4513	0	dBA
4453	0	dBA
4397	0	dBA
2837	0	dBA
2603	0	dBA
2818	0	dBA
2741	0	dBA
2633	0	dBA
2522	0	dBA
2421	0	dBA
1959	10	dBA
4657	0	dBA
4651	0	dBA
4648	0	dBA
4801	0	dBA
4793	0	dBA
4792	0	dBA
4795	0	dBA
2895	0	dBA
2908	0	dBA
2928	0	dBA
2955	0	dBA
2974	0	dBA
3005	0	dBA
3071	0	dBA
3075	0	dBA
3082	0	dBA
3096	0	dBA
3115	0	dBA
3141	0	dBA
3158	0	dBA
3189	0	dBA
3255	0	dBA
3260	0	dBA
3272	0	dBA
3289	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
5205	0	dBA
5216	0	dBA
5227	0	dBA
5019	0	dBA
4737	0	dBA
4654	0	dBA
4588	0	dBA
4536	0	dBA
4484	0	dBA
4440	0	dBA
4303	0	dBA
4231	0	dBA
4168	0	dBA
4103	0	dBA
4042	0	dBA
2513	0	dBA
2267	0	dBA
2477	0	dBA
2512	0	dBA
2395	0	dBA
2272	0	dBA
2160	0	dBA
1666	11	dBA
4271	0	dBA
4265	0	dBA
4262	0	dBA
4415	0	dBA
4407	0	dBA
4406	0	dBA
4410	0	dBA
2510	0	dBA
2525	0	dBA
2547	0	dBA
2578	0	dBA
2599	0	dBA
2634	0	dBA
2685	0	dBA
2689	0	dBA
2696	0	dBA
2711	0	dBA
2733	0	dBA
2762	0	dBA
2782	0	dBA
2815	0	dBA
2868	0	dBA
2874	0	dBA
2887	0	dBA
2906	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
5083	0	dBA
5085	0	dBA
5089	0	dBA
4859	0	dBA
4583	0	dBA
4510	0	dBA
4455	0	dBA
4413	0	dBA
4372	0	dBA
4339	0	dBA
4114	0	dBA
4052	0	dBA
3998	0	dBA
3944	0	dBA
3894	0	dBA
2309	0	dBA
2086	0	dBA
2303	0	dBA
2204	0	dBA
2094	0	dBA
1980	15	dBA
1879	16	dBA
1421	13	dBA
4262	0	dBA
4265	0	dBA
4276	0	dBA
4406	0	dBA
4415	0	dBA
4425	0	dBA
4440	0	dBA
2496	0	dBA
2493	0	dBA
2496	0	dBA
2508	0	dBA
2517	0	dBA
2536	0	dBA
2704	0	dBA
2692	0	dBA
2685	0	dBA
2683	0	dBA
2687	0	dBA
2697	0	dBA
2707	0	dBA
2725	0	dBA
2886	0	dBA
2873	0	dBA
2867	0	dBA
2868	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR011</b>			Point of Reception ID <b>POR012</b>			Point of Reception ID <b>POR013</b>			Point of Reception ID <b>POR014</b>			Point of Reception ID <b>POR015</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
MVPP_P14A_U19	MVPP P14A_U19	3901	0	dBA	4165	0	dBA	3312	0	dBA	2931	0	dBA	2876	0	dBA
MVPP_P14A_U20	MVPP P14A_U20	3934	0	dBA	4189	0	dBA	3343	0	dBA	2965	0	dBA	2892	0	dBA
MVPP_P14A_U21	MVPP P14A_U21	3967	0	dBA	4215	0	dBA	3375	0	dBA	3001	0	dBA	2912	0	dBA
MVPP_P14B_U1	MVPP P14B_U1	3310	0	dBA	3580	0	dBA	2723	0	dBA	2340	0	dBA	2305	0	dBA
MVPP_P14B_U2	MVPP P14B_U2	3332	0	dBA	3595	0	dBA	2742	0	dBA	2362	0	dBA	2308	0	dBA
MVPP_P14B_U3	MVPP P14B_U3	3360	0	dBA	3615	0	dBA	2769	0	dBA	2393	0	dBA	2319	0	dBA
MVPP_P14B_U4	MVPP P14B_U4	3380	0	dBA	3629	0	dBA	2788	0	dBA	2414	0	dBA	2329	0	dBA
MVPP_P14B_U5	MVPP P14B_U5	3416	0	dBA	3657	0	dBA	2824	0	dBA	2456	0	dBA	2351	0	dBA
MVPP_P14B_U6	MVPP P14B_U6	3175	0	dBA	3429	0	dBA	2584	0	dBA	2208	0	dBA	2134	0	dBA
MVPP_P14B_U7	MVPP P14B_U7	3209	0	dBA	3454	0	dBA	2617	0	dBA	2247	0	dBA	2151	0	dBA
MVPP_P14B_U8	MVPP P14B_U8	3261	0	dBA	3494	0	dBA	2670	0	dBA	2307	0	dBA	2186	0	dBA
MVPP_P14C_U1	MVPP P14C_U1	2816	0	dBA	3092	0	dBA	2232	0	dBA	1847	16	dBA	1833	12	dBA
MVPP_P14C_U2	MVPP P14C_U2	2837	0	dBA	3104	0	dBA	2249	0	dBA	1867	16	dBA	1829	12	dBA
MVPP_P14C_U3	MVPP P14C_U3	2857	0	dBA	3117	0	dBA	2267	0	dBA	1888	16	dBA	1830	12	dBA
MVPP_P14C_U4	MVPP P14C_U4	2991	0	dBA	3256	0	dBA	2402	0	dBA	2022	0	dBA	1974	12	dBA
MVPP_P19_20_U1	MVPP P19/20_U1	1172	20	dBA	1505	14	dBA	737	24	dBA	515	28	dBA	871	19	dBA
MVPP_P19_U1	MVPP P19_U1	1129	15	dBA	1453	8	dBA	647	20	dBA	390	24	dBA	742	14	dBA
MVPP_P19_U2	MVPP P19_U2	1077	15	dBA	1393	8	dBA	563	21	dBA	281	27	dBA	635	16	dBA
MVPP_P19_U3	MVPP P19_U3	1031	16	dBA	1334	9	dBA	482	22	dBA	162	31	dBA	519	21	dBA
MVPP_P19_U4	MVPP P19_U4	935	22	dBA	1264	16	dBA	505	28	dBA	380	30	dBA	749	21	dBA
MVPP_P19_U5	MVPP P19_U5	873	17	dBA	1193	10	dBA	396	24	dBA	280	27	dBA	643	15	dBA
MVPP_P20_U1	MVPP P20_U1	644	26	dBA	963	18	dBA	225	35	dBA	382	30	dBA	669	25	dBA
MVPP_P21_U1	MVPP P21_U1	1441	8	dBA	1660	7	dBA	1656	7	dBA	1802	6	dBA	2140	0	dBA
MVPP_P21_U2	MVPP P21_U2	1295	9	dBA	1510	8	dBA	1536	8	dBA	1705	7	dBA	2033	0	dBA
MVPP_P21_U3	MVPP P21_U3	1172	17	dBA	1381	15	dBA	1439	15	dBA	1628	13	dBA	1947	12	dBA
MVPP_P21_U4	MVPP P21_U4	961	22	dBA	1161	17	dBA	1274	16	dBA	1499	14	dBA	1798	12	dBA
MVPP_P21_U5	MVPP P21_U5	871	23	dBA	1064	17	dBA	1212	16	dBA	1456	14	dBA	1742	13	dBA
MVPP_P21_U6	MVPP P21_U6	775	24	dBA	957	18	dBA	1149	17	dBA	1414	15	dBA	1685	13	dBA
MVPP_P21_U7	MVPP P21_U7	682	25	dBA	851	20	dBA	1093	21	dBA	1379	19	dBA	1634	13	dBA
MVPP_P21_U8	MVPP P21_U8	594	20	dBA	745	14	dBA	1045	15	dBA	1353	13	dBA	1588	7	dBA
MVPP_P21_U9	MVPP P21_U9	491	22	dBA	608	16	dBA	997	16	dBA	1330	13	dBA	1537	8	dBA
MVPP_P22_U1	MVPP P22_U1	1448	15	dBA	1638	13	dBA	1719	13	dBA	1894	12	dBA	2220	0	dBA
MVPP_P22_U2	MVPP P22_U2	1299	19	dBA	1480	14	dBA	1601	14	dBA	1799	12	dBA	2114	0	dBA
MVPP_P22_U3	MVPP P22_U3	1126	20	dBA	1290	16	dBA	1475	14	dBA	1705	13	dBA	2002	0	dBA
MVPP_P22_U4	MVPP P22_U4	970	22	dBA	1113	17	dBA	1365	15	dBA	1627	13	dBA	1902	12	dBA
MVPP_P22_U5	MVPP P22_U5	850	17	dBA	970	12	dBA	1288	14	dBA	1575	7	dBA	1830	6	dBA
MVPP_P22_U6	MVPP P22_U6	764	18	dBA	815	13	dBA	1275	14	dBA	1598	12	dBA	1816	6	dBA
MVPP_P23_U1	MVPP P23_U1	1517	18	dBA	1668	13	dBA	1848	12	dBA	2051	0	dBA	2364	0	dBA
MVPP_P23_U2	MVPP P23_U2	1397	19	dBA	1536	14	dBA	1754	13	dBA	1977	12	dBA	2279	0	dBA
MVPP_P23_U3	MVPP P23_U3	1281	19	dBA	1406	15	dBA	1668	13	dBA	1911	12	dBA	2200	0	dBA
MVPP_P23_U4	MVPP P23_U4	1171	20	dBA	1277	16	dBA	1589	14	dBA	1852	12	dBA	2126	0	dBA
MVPP_P23_U5	MVPP P23_U5	1052	21	dBA	1132	17	dBA	1509	14	dBA	1795	12	dBA	2050	0	dBA
MVPP_P23_U6	MVPP P23_U6	959	16	dBA	1011	11	dBA	1450	13	dBA	1757	11	dBA	1992	5	dBA
MVPP_P23_U7	MVPP P23_U7	877	17	dBA	893	12	dBA	1401	13	dBA	1727	11	dBA	1942	5	dBA
MVPP_P24_U1	MVPP P24_U1	1801	12	dBA	2016	0	dBA	1998	11	dBA	2116	0	dBA	2465	0	dBA
MVPP_P24_U2	MVPP P24_U2	1668	7	dBA	1891	6	dBA	1859	6	dBA	1979	5	dBA	2326	0	dBA
MVPP_P24_U3	MVPP P24_U3	1807	12	dBA	2052	0	dBA	1935	12	dBA	2013	0	dBA	2372	0	dBA
TS	Transformer Station	5004	0	dBA	5223	0	dBA	4415	0	dBA	4057	0	dBA	3916	0	dBA
WB_HIT	Hut 1 Transformer	4846	0	dBA	5167	0	dBA	4319	0	dBA	3944	0	dBA	4046	0	dBA
WB_H1I1	Hut 1 Inverter 1	4845	0	dBA	5166	0	dBA	4319	0	dBA	3944	0	dBA	4046	0	dBA
WB_H1I2	Hut 1 Inverter 2	4848	0	dBA	5169	0	dBA	4321	0	dBA	3946	0	dBA	4048	0	dBA
WB_H2T	Hut 2 Transformer	4666	0	dBA	4987	0	dBA	4140	0	dBA	3766	0	dBA	3872	0	dBA
WB_H2I1	Hut 2 Inverter 1	4665	0	dBA	4986	0	dBA	4140	0	dBA	3766	0	dBA	3872	0	dBA
WB_H2I2	Hut 2 Inverter 2	4668	0	dBA	4989	0	dBA	4142	0	dBA	3769	0	dBA	3875	0	dBA
WB_H3T	Hut 3 Transformer	4485	0	dBA	4807	0	dBA	3962	0	dBA	3589	0	dBA	3699	0	dBA
WB_H3I1	Hut 3 Inverter 1	4485	0	dBA	4807	0	dBA	3961	0	dBA	3589	0	dBA	3699	0	dBA
WB_H3I2	Hut 3 Inverter 2	4487	0	dBA	4809	0	dBA	3964	0	dBA	3591	0	dBA	3702	0	dBA

Point of Reception ID	Point of Reception Description	Point of reception coordinates
<b>POR011</b>	House 11	X Y Z <sup>(5)</sup>
		364877 4906760 137.7

Point of Reception ID	Point of Reception Description	Point of reception coordinates
<b>POR012</b>	House 12	X Y Z <sup>(5)</sup>
		364575 4906916 133.1

Point of Reception ID	Point of Reception Description	Point of reception coordinates
<b>POR013</b>	House 13	X Y Z <sup>(5)</sup>
		365438 4906947 136.9

Point of Reception ID	Point of Reception Description	Point of reception coordinates
<b>POR014</b>	House 14	X Y Z <sup>(5)</sup>
		365824 4906970 138.5

Point of Reception ID	Point of Reception Description	Point of reception coordinates
<b>POR015</b>	House 15	X Z Z <sup>(5)</sup>
		365813 4907340 133.4



**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR011</b>			Point of Reception ID <b>POR012</b>			Point of Reception ID <b>POR013</b>			Point of Reception ID <b>POR014</b>			Point of Reception ID <b>POR015</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
		Point of Reception Description House 11			Point of Reception Description House 12			Point of Reception Description House 13			Point of Reception Description House 14			Point of Reception Description House 15		
		Point of reception coordinates X Y Z <sup>(5)</sup>			Point of reception coordinates X Y Z <sup>(5)</sup>			Point of reception coordinates X Y Z <sup>(5)</sup>			X Y Z <sup>(5)</sup>			X Y Z <sup>(5)</sup>		
		364877	4906760	137.7	364575	4906916	133.1	365438	4906947	136.9	365824	4906970	138.5	365813	4907340	133.4
WB_H4T	Hut 4 Transformer	4545	0	dBA	4855	0	dBA	3997	0	dBA	3615	0	dBA	3684	0	dBA
WB_H4I1	Hut 4 Inverter 1	4544	0	dBA	4854	0	dBA	3996	0	dBA	3614	0	dBA	3684	0	dBA
WB_H4I2	Hut 4 Inverter 2	4546	0	dBA	4857	0	dBA	3999	0	dBA	3617	0	dBA	3686	0	dBA
WB_H5T	Hut 5 Transformer	5002	0	dBA	5312	0	dBA	4453	0	dBA	4070	0	dBA	4133	0	dBA
WB_H5I1	Hut 5 Inverter 1	5001	0	dBA	5311	0	dBA	4452	0	dBA	4069	0	dBA	4133	0	dBA
WB_H5I2	Hut 5 Inverter 2	5003	0	dBA	5313	0	dBA	4454	0	dBA	4072	0	dBA	4135	0	dBA
WB_H6T	Hut 6 Transformer	4905	0	dBA	5219	0	dBA	4364	0	dBA	3984	0	dBA	4063	0	dBA
WB_H6I1	Hut 6 Inverter 1	4904	0	dBA	5219	0	dBA	4363	0	dBA	3984	0	dBA	4063	0	dBA
WB_H6I2	Hut 6 Inverter 2	4907	0	dBA	5221	0	dBA	4366	0	dBA	3986	0	dBA	4065	0	dBA
WB_H7T	Hut 7 Transformer	4850	0	dBA	5160	0	dBA	4301	0	dBA	3918	0	dBA	3983	0	dBA
WB_H7I1	Hut 7 Inverter 1	4849	0	dBA	5159	0	dBA	4300	0	dBA	3918	0	dBA	3983	0	dBA
WB_H7I2	Hut 7 Inverter 2	4851	0	dBA	5161	0	dBA	4302	0	dBA	3920	0	dBA	3985	0	dBA
WB_H8T	Hut 8 Transformer	4703	0	dBA	5014	0	dBA	4155	0	dBA	3773	0	dBA	3840	0	dBA
WB_H8I1	Hut 8 Inverter 1	4702	0	dBA	5013	0	dBA	4154	0	dBA	3772	0	dBA	3839	0	dBA
WB_H8I2	Hut 8 Inverter 2	4705	0	dBA	5015	0	dBA	4156	0	dBA	3774	0	dBA	3842	0	dBA
WB_H9T	Hut 9 Transformer	4521	0	dBA	4837	0	dBA	3984	0	dBA	3606	0	dBA	3694	0	dBA
WB_H9I1	Hut 9 Inverter 1	4520	0	dBA	4836	0	dBA	3983	0	dBA	3605	0	dBA	3694	0	dBA
WB_H9I2	Hut 9 Inverter 2	4523	0	dBA	4839	0	dBA	3986	0	dBA	3608	0	dBA	3696	0	dBA
WB_H10T	Hut 10 Transformer	4765	0	dBA	5082	0	dBA	4229	0	dBA	3852	0	dBA	3940	0	dBA
WB_H10I1	Hut 10 Inverter 1	4764	0	dBA	5081	0	dBA	4229	0	dBA	3851	0	dBA	3940	0	dBA
WB_H10I2	Hut 10 Inverter 2	4767	0	dBA	5084	0	dBA	4231	0	dBA	3854	0	dBA	3943	0	dBA
WB_ST	Substation Transformer	4877	0	dBA	5200	0	dBA	4357	0	dBA	3985	0	dBA	4096	0	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	3798	0	dBA	4082	0	dBA	3751	0	dBA	3669	0	dBA	4033	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	3899	0	dBA	4175	0	dBA	3877	0	dBA	3809	0	dBA	4175	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	3954	0	dBA	4236	0	dBA	3910	0	dBA	3827	0	dBA	4191	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	4046	0	dBA	4321	0	dBA	4023	0	dBA	3953	0	dBA	4319	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	4099	0	dBA	4380	0	dBA	4055	0	dBA	3970	0	dBA	4334	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	4190	0	dBA	4464	0	dBA	4166	0	dBA	4094	0	dBA	4459	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	4243	0	dBA	4524	0	dBA	4199	0	dBA	4113	0	dBA	4476	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	4334	0	dBA	4608	0	dBA	4310	0	dBA	4236	0	dBA	4600	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	4386	0	dBA	4666	0	dBA	4342	0	dBA	4255	0	dBA	4618	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	4478	0	dBA	4752	0	dBA	4453	0	dBA	4377	0	dBA	4742	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	4532	0	dBA	4811	0	dBA	4488	0	dBA	4399	0	dBA	4761	0	dBA



**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID  
**POR016**

Point of Reception ID  
**POR017**

Point of Reception ID  
**POR018**

Point of Reception ID  
**POR019**

Point of Reception ID  
**POR020**

Point of Reception Description		
House 16		
X	Y	Z <sup>(5)</sup>
366006	4907398	133.6

Point of Reception Description		
House 17		
X	Y	Z
366076	4906749	141.0

Point of Reception Description		
House 18		
X	Y	Z
366177	4906667	141.5

Point of Reception Description		
Vacant Lot Receptor 01		
X	Y	Z
366249	4906424	143.5

Point of Reception Description		
Vacant Lot Receptor 02		
X	Y	Z
366287	4906347	142.7

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
4882	0	dBA
4884	0	dBA
4888	0	dBA
4660	0	dBA
4384	0	dBA
4310	0	dBA
4254	0	dBA
4211	0	dBA
4171	0	dBA
4138	0	dBA
3919	0	dBA
3855	0	dBA
3800	0	dBA
3745	0	dBA
3694	0	dBA
2115	0	dBA
1888	6	dBA
2104	0	dBA
2051	0	dBA
1936	15	dBA
1816	16	dBA
1709	17	dBA
1235	14	dBA
4069	0	dBA
4074	0	dBA
4087	0	dBA
4213	0	dBA
4225	0	dBA
4236	0	dBA
4254	0	dBA
2304	0	dBA
2299	0	dBA
2299	0	dBA
2308	0	dBA
2317	0	dBA
2335	0	dBA
2518	0	dBA
2503	0	dBA
2494	0	dBA
2488	0	dBA
2490	0	dBA
2499	0	dBA
2507	0	dBA
2525	0	dBA
2699	0	dBA
2683	0	dBA
2674	0	dBA
2672	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5067	0	dBA
5086	0	dBA
5105	0	dBA
4917	0	dBA
4631	0	dBA
4540	0	dBA
4464	0	dBA
4403	0	dBA
4342	0	dBA
4289	0	dBA
4232	0	dBA
4152	0	dBA
4080	0	dBA
4006	0	dBA
3935	0	dBA
2476	0	dBA
2212	0	dBA
2412	0	dBA
2601	0	dBA
2475	0	dBA
2342	0	dBA
2219	0	dBA
1697	11	dBA
4049	0	dBA
4036	0	dBA
4024	0	dBA
4192	0	dBA
4172	0	dBA
4165	0	dBA
4161	0	dBA
2306	0	dBA
2334	0	dBA
2370	0	dBA
2417	0	dBA
2447	0	dBA
2495	0	dBA
2454	0	dBA
2470	0	dBA
2487	0	dBA
2516	0	dBA
2550	0	dBA
2594	0	dBA
2622	0	dBA
2668	0	dBA
2637	0	dBA
2655	0	dBA
2682	0	dBA
2714	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5015	0	dBA
5037	0	dBA
5058	0	dBA
4880	0	dBA
4592	0	dBA
4497	0	dBA
4417	0	dBA
4353	0	dBA
4288	0	dBA
4232	0	dBA
4208	0	dBA
4124	0	dBA
4049	0	dBA
3971	0	dBA
3896	0	dBA
2471	0	dBA
2200	0	dBA
2395	0	dBA
2643	0	dBA
2514	0	dBA
2377	0	dBA
2251	0	dBA
1722	11	dBA
3964	0	dBA
3949	0	dBA
3933	0	dBA
4106	0	dBA
4082	0	dBA
4073	0	dBA
4066	0	dBA
2232	0	dBA
2265	0	dBA
2308	0	dBA
2361	0	dBA
2394	0	dBA
2448	0	dBA
2369	0	dBA
2389	0	dBA
2411	0	dBA
2444	0	dBA
2484	0	dBA
2534	0	dBA
2565	0	dBA
2616	0	dBA
2551	0	dBA
2574	0	dBA
2607	0	dBA
2644	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5069	0	dBA
5098	0	dBA
5125	0	dBA
4963	0	dBA
4672	0	dBA
4572	0	dBA
4485	0	dBA
4414	0	dBA
4341	0	dBA
4278	0	dBA
4317	0	dBA
4227	0	dBA
4146	0	dBA
4062	0	dBA
3980	0	dBA
2616	0	dBA
2338	0	dBA
2523	0	dBA
2851	0	dBA
2719	0	dBA
2579	0	dBA
2450	0	dBA
1916	10	dBA
3945	0	dBA
3923	0	dBA
3897	0	dBA
4085	0	dBA
4049	0	dBA
4032	0	dBA
4017	0	dBA
2248	0	dBA
2294	0	dBA
2350	0	dBA
2416	0	dBA
2456	0	dBA
2521	0	dBA
2355	0	dBA
2388	0	dBA
2419	0	dBA
2466	0	dBA
2518	0	dBA
2580	0	dBA
2618	0	dBA
2679	0	dBA
2534	0	dBA
2570	0	dBA
2617	0	dBA
2667	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5077	0	dBA
5107	0	dBA
5136	0	dBA
4980	0	dBA
4689	0	dBA
4587	0	dBA
4497	0	dBA
4424	0	dBA
4349	0	dBA
4283	0	dBA
4344	0	dBA
4251	0	dBA
4169	0	dBA
4082	0	dBA
3998	0	dBA
2658	0	dBA
2378	0	dBA
2559	0	dBA
2915	0	dBA
2783	0	dBA
2642	0	dBA
2511	0	dBA
1976	10	dBA
3928	0	dBA
3903	0	dBA
3874	0	dBA
4067	0	dBA
4027	0	dBA
4008	0	dBA
3989	0	dBA
2246	0	dBA
2297	0	dBA
2356	0	dBA
2427	0	dBA
2470	0	dBA
2537	0	dBA
2342	0	dBA
2379	0	dBA
2414	0	dBA
2465	0	dBA
2521	0	dBA
2588	0	dBA
2628	0	dBA
2692	0	dBA
2520	0	dBA
2561	0	dBA
2612	0	dBA
2667	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR016**

**Point of Reception Description**  
 House 16

X	Y	Z <sup>(1)</sup>
366006	4907398	133.6

**Point of Reception ID**  
**POR017**

**Point of Reception Description**  
 House 17

X	Y	Z
366076	4906749	141.0

**Point of Reception ID**  
**POR018**

**Point of Reception Description**  
 House 18

X	Y	Z
366177	4906667	141.5

**Point of Reception ID**  
**POR019**

**Point of Reception Description**  
 Vacant Lot Receptor 01

X	Y	Z
366249	4906424	143.5

**Point of Reception ID**  
**POR020**

**Point of Reception Description**  
 Vacant Lot Receptor 02

X	Y	Z
366287	4906347	142.7

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2678	0	dBA
2692	0	dBA
2712	0	dBA
2110	0	dBA
2111	0	dBA
2120	0	dBA
2129	0	dBA
2150	0	dBA
1935	6	dBA
1951	5	dBA
1985	5	dBA
1643	13	dBA
1635	13	dBA
1634	13	dBA
1778	13	dBA
905	19	dBA
777	18	dBA
679	19	dBA
577	21	dBA
834	20	dBA
744	14	dBA
819	23	dBA
2267	0	dBA
2168	0	dBA
2088	0	dBA
1951	12	dBA
1902	12	dBA
1851	12	dBA
1805	12	dBA
1765	6	dBA
1722	7	dBA
2357	0	dBA
2258	0	dBA
2157	0	dBA
2066	0	dBA
2002	0	dBA
1999	5	dBA
2510	0	dBA
2431	0	dBA
2359	0	dBA
2292	0	dBA
2223	0	dBA
2171	0	dBA
2126	0	dBA
2580	0	dBA
2443	0	dBA
2473	0	dBA
3715	0	dBA
3879	0	dBA
3880	0	dBA
3882	0	dBA
3707	0	dBA
3707	0	dBA
3710	0	dBA
3536	0	dBA
3537	0	dBA
3539	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2753	0	dBA
2802	0	dBA
2850	0	dBA
2155	0	dBA
2191	0	dBA
2238	0	dBA
2269	0	dBA
2325	0	dBA
2057	0	dBA
2113	0	dBA
2195	0	dBA
1656	17	dBA
1695	17	dBA
1732	17	dBA
1853	16	dBA
262	33	dBA
150	31	dBA
126	33	dBA
189	30	dBA
321	32	dBA
332	25	dBA
556	27	dBA
1737	6	dBA
1663	11	dBA
1609	17	dBA
1522	18	dBA
1499	18	dBA
1480	18	dBA
1469	18	dBA
1467	12	dBA
1475	12	dBA
1852	16	dBA
1782	16	dBA
1724	17	dBA
1679	17	dBA
1657	11	dBA
1721	11	dBA
2032	0	dBA
1978	12	dBA
1934	12	dBA
1898	16	dBA
1869	16	dBA
1855	10	dBA
1851	10	dBA
2016	0	dBA
1885	6	dBA
1882	12	dBA
3944	0	dBA
3657	0	dBA
3656	0	dBA
3659	0	dBA
3477	0	dBA
3477	0	dBA
3479	0	dBA
3298	0	dBA
3298	0	dBA
3300	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2689	0	dBA
2743	0	dBA
2797	0	dBA
2089	0	dBA
2132	0	dBA
2185	0	dBA
2220	0	dBA
2283	0	dBA
2007	0	dBA
2069	0	dBA
2159	0	dBA
1591	17	dBA
1638	17	dBA
1681	17	dBA
1796	16	dBA
234	34	dBA
185	30	dBA
230	28	dBA
316	26	dBA
388	30	dBA
430	23	dBA
660	25	dBA
1733	7	dBA
1669	11	dBA
1624	17	dBA
1554	18	dBA
1538	18	dBA
1529	18	dBA
1526	18	dBA
1532	12	dBA
1550	12	dBA
1856	16	dBA
1797	16	dBA
1752	16	dBA
1720	17	dBA
1709	11	dBA
1787	11	dBA
2043	0	dBA
1997	15	dBA
1962	15	dBA
1935	16	dBA
1917	16	dBA
1912	10	dBA
1916	10	dBA
1995	11	dBA
1867	6	dBA
1849	12	dBA
3903	0	dBA
3545	0	dBA
3545	0	dBA
3547	0	dBA
3366	0	dBA
3365	0	dBA
3367	0	dBA
3186	0	dBA
3185	0	dBA
3185	0	dBA
3188	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2724	0	dBA
2791	0	dBA
2855	0	dBA
2127	0	dBA
2182	0	dBA
2248	0	dBA
2291	0	dBA
2365	0	dBA
2078	0	dBA
2153	0	dBA
2258	0	dBA
1637	18	dBA
1700	17	dBA
1756	17	dBA
1857	17	dBA
240	35	dBA
320	25	dBA
419	23	dBA
532	21	dBA
483	29	dBA
572	21	dBA
793	24	dBA
1606	12	dBA
1561	12	dBA
1535	18	dBA
1498	19	dBA
1499	19	dBA
1507	19	dBA
1523	18	dBA
1523	18	dBA
1546	12	dBA
1586	12	dBA
1742	17	dBA
1703	17	dBA
1686	17	dBA
1681	18	dBA
1692	11	dBA
1798	11	dBA
1940	16	dBA
1911	16	dBA
1893	16	dBA
1884	16	dBA
1887	16	dBA
1900	10	dBA
1923	10	dBA
1838	17	dBA
1717	11	dBA
1675	18	dBA
3981	0	dBA
3448	0	dBA
3447	0	dBA
3267	0	dBA
3266	0	dBA
3268	0	dBA
3085	0	dBA
3084	0	dBA
3087	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2727	0	dBA
2798	0	dBA
2865	0	dBA
2133	0	dBA
2192	0	dBA
2262	0	dBA
2308	0	dBA
2385	0	dBA
2095	0	dBA
2174	0	dBA
2284	0	dBA
1648	18	dBA
1715	17	dBA
1776	17	dBA
1871	16	dBA
306	33	dBA
399	23	dBA
501	22	dBA
616	20	dBA
548	28	dBA
645	20	dBA
861	24	dBA
1583	12	dBA
1546	12	dBA
1527	18	dBA
1503	19	dBA
1509	19	dBA
1523	18	dBA
1545	18	dBA
1574	12	dBA
1621	12	dBA
1724	17	dBA
1693	17	dBA
1685	17	dBA
1690	17	dBA
1708	11	dBA
1824	11	dBA
1926	16	dBA
1903	16	dBA
1891	16	dBA
1888	16	dBA
1898	16	dBA
1918	10	dBA
1947	10	dBA
1801	17	dBA
1684	11	dBA
1631	18	dBA
3998	0	dBA
3405	0	dBA
3404	0	dBA
3407	0	dBA
3224	0	dBA
3223	0	dBA
3225	0	dBA
3042	0	dBA
3041	0	dBA
3044	0	dBA



**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR016**

**Point of Reception Description**  
 House 16

X	Y	Z <sup>(2)</sup>
366006	4907398	133.6

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3509	0	dBA
3509	0	dBA
3511	0	dBA
3955	0	dBA
3955	0	dBA
3957	0	dBA
3889	0	dBA
3889	0	dBA
3892	0	dBA
3806	0	dBA
3806	0	dBA
3808	0	dBA
3663	0	dBA
3663	0	dBA
3665	0	dBA
3524	0	dBA
3524	0	dBA
3527	0	dBA
3770	0	dBA
3770	0	dBA
3772	0	dBA
3933	0	dBA
4055	0	dBA
4204	0	dBA
4213	0	dBA
4346	0	dBA
4354	0	dBA
4485	0	dBA
4495	0	dBA
4625	0	dBA
4636	0	dBA
4765	0	dBA
4778	0	dBA

**Point of Reception ID**  
**POR017**

**Point of Reception Description**  
 House 17

X	Y	Z
366076	4906749	141.0

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3346	0	dBA
3345	0	dBA
3348	0	dBA
3803	0	dBA
3802	0	dBA
3805	0	dBA
3709	0	dBA
3708	0	dBA
3710	0	dBA
3651	0	dBA
3650	0	dBA
3653	0	dBA
3505	0	dBA
3504	0	dBA
3506	0	dBA
3326	0	dBA
3326	0	dBA
3328	0	dBA
3571	0	dBA
3570	0	dBA
3573	0	dBA
3692	0	dBA
3403	0	dBA
3552	0	dBA
3561	0	dBA
3693	0	dBA
3703	0	dBA
3833	0	dBA
3844	0	dBA
3973	0	dBA
3985	0	dBA
4113	0	dBA
4128	0	dBA

**Point of Reception ID**  
**POR018**

**Point of Reception Description**  
 House 18

X	Y	Z
366177	4906667	141.5

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3243	0	dBA
3242	0	dBA
3244	0	dBA
3700	0	dBA
3699	0	dBA
3702	0	dBA
3602	0	dBA
3601	0	dBA
3604	0	dBA
3548	0	dBA
3547	0	dBA
3549	0	dBA
3402	0	dBA
3400	0	dBA
3403	0	dBA
3219	0	dBA
3218	0	dBA
3220	0	dBA
3463	0	dBA
3462	0	dBA
3465	0	dBA
3579	0	dBA
3306	0	dBA
3458	0	dBA
3464	0	dBA
3599	0	dBA
3605	0	dBA
3737	0	dBA
3745	0	dBA
3877	0	dBA
3885	0	dBA
4016	0	dBA
4027	0	dBA

**Point of Reception ID**  
**POR019**

**Point of Reception Description**  
 Vacant Lot Receptor 01

X	Y	Z
366249	4906424	143.5

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3173	0	dBA
3172	0	dBA
3174	0	dBA
3630	0	dBA
3629	0	dBA
3631	0	dBA
3521	0	dBA
3520	0	dBA
3523	0	dBA
3478	0	dBA
3477	0	dBA
3479	0	dBA
3332	0	dBA
3330	0	dBA
3333	0	dBA
3134	0	dBA
3133	0	dBA
3136	0	dBA
3376	0	dBA
3375	0	dBA
3377	0	dBA
3473	0	dBA
3057	0	dBA
3210	0	dBA
3214	0	dBA
3350	0	dBA
3354	0	dBA
3488	0	dBA
3494	0	dBA
3627	0	dBA
3634	0	dBA
3766	0	dBA
3776	0	dBA

**Point of Reception ID**  
**POR020**

**Point of Reception Description**  
 Vacant Lot Receptor 02

X	Y	Z
366287	4906347	142.7

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3140	0	dBA
3139	0	dBA
3141	0	dBA
3597	0	dBA
3595	0	dBA
3598	0	dBA
3484	0	dBA
3483	0	dBA
3485	0	dBA
3445	0	dBA
3443	0	dBA
3445	0	dBA
3298	0	dBA
3297	0	dBA
3299	0	dBA
3097	0	dBA
3095	0	dBA
3098	0	dBA
3337	0	dBA
3335	0	dBA
3338	0	dBA
3428	0	dBA
2975	0	dBA
3130	0	dBA
3132	0	dBA
3269	0	dBA
3272	0	dBA
3407	0	dBA
3412	0	dBA
3545	0	dBA
3552	0	dBA
3684	0	dBA
3693	0	dBA

Source ID <sup>(1)</sup>	Source Description
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON



Point of Reception ID  
**POR021**

Point of Reception ID  
**POR022**

Point of Reception ID  
**POR023**

Point of Reception ID  
**POR024**

Point of Reception ID  
**POR025**

Point of Reception Description		
House 19		
X	Y	Z
366841	4906227	132.6

Point of Reception Description		
House 20		
X	Y	Z
366774	4906090	133.4

Point of Reception Description		
House 21		
X	Y	Z
366475	4906165	136.1

Point of Reception Description		
House 22		
X	Y	Z
366036	4906191	139.8

Point of Reception Description		
House 23		
X	Y	Z
366367	4906131	137.6

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
4682	0	dBA
4724	0	dBA
4762	0	dBA
4638	0	dBA
4346	0	dBA
4233	0	dBA
4131	0	dBA
4046	0	dBA
3958	0	dBA
3881	0	dBA
4062	0	dBA
3958	0	dBA
3864	0	dBA
3765	0	dBA
3668	0	dBA
2500	0	dBA
2212	0	dBA
2360	0	dBA
2938	0	dBA
2800	0	dBA
2652	0	dBA
2514	0	dBA
1988	10	dBA
3435	0	dBA
3403	0	dBA
3362	0	dBA
3571	0	dBA
3518	0	dBA
3491	0	dBA
3464	0	dBA
1833	16	dBA
1903	16	dBA
1984	10	dBA
2077	0	dBA
2132	0	dBA
2218	0	dBA
1878	12	dBA
1932	16	dBA
1982	15	dBA
2052	0	dBA
2128	0	dBA
2215	0	dBA
2267	0	dBA
2348	0	dBA
2047	0	dBA
2106	0	dBA
2178	0	dBA
2251	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
4818	0	dBA
4862	0	dBA
4901	0	dBA
4782	0	dBA
4490	0	dBA
4376	0	dBA
4271	0	dBA
4185	0	dBA
4096	0	dBA
4016	0	dBA
4211	0	dBA
4107	0	dBA
4012	0	dBA
3912	0	dBA
3814	0	dBA
2653	0	dBA
2365	0	dBA
2513	0	dBA
3080	0	dBA
2942	0	dBA
2795	0	dBA
2657	0	dBA
2129	0	dBA
3546	0	dBA
3511	0	dBA
3466	0	dBA
3681	0	dBA
3622	0	dBA
3591	0	dBA
3560	0	dBA
1971	15	dBA
2044	0	dBA
2128	0	dBA
2223	0	dBA
2279	0	dBA
2366	0	dBA
2003	0	dBA
2062	0	dBA
2115	0	dBA
2189	0	dBA
2268	0	dBA
2358	0	dBA
2411	0	dBA
2494	0	dBA
2169	0	dBA
2233	0	dBA
2310	0	dBA
2387	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5017	0	dBA
5054	0	dBA
5089	0	dBA
4951	0	dBA
4659	0	dBA
4551	0	dBA
4453	0	dBA
4373	0	dBA
4291	0	dBA
4218	0	dBA
4346	0	dBA
4247	0	dBA
4158	0	dBA
4065	0	dBA
3974	0	dBA
2714	0	dBA
2429	0	dBA
2596	0	dBA
3049	0	dBA
2913	0	dBA
2769	0	dBA
2635	0	dBA
2099	0	dBA
3801	0	dBA
3771	0	dBA
3732	0	dBA
3938	0	dBA
3887	0	dBA
3861	0	dBA
3836	0	dBA
2170	0	dBA
2232	0	dBA
2304	0	dBA
2388	0	dBA
2437	0	dBA
2515	0	dBA
2234	0	dBA
2283	0	dBA
2327	0	dBA
2390	0	dBA
2458	0	dBA
2537	0	dBA
2583	0	dBA
2657	0	dBA
2406	0	dBA
2460	0	dBA
2524	0	dBA
2591	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5373	0	dBA
5403	0	dBA
5432	0	dBA
5274	0	dBA
4984	0	dBA
4882	0	dBA
4793	0	dBA
4720	0	dBA
4645	0	dBA
4579	0	dBA
4633	0	dBA
4542	0	dBA
4460	0	dBA
4375	0	dBA
4292	0	dBA
2931	0	dBA
2654	0	dBA
2839	0	dBA
3139	0	dBA
3009	0	dBA
2872	0	dBA
2745	0	dBA
2213	0	dBA
4212	0	dBA
4186	0	dBA
4153	0	dBA
4351	0	dBA
4307	0	dBA
4285	0	dBA
4263	0	dBA
2541	0	dBA
2592	0	dBA
2652	0	dBA
2723	0	dBA
2765	0	dBA
2832	0	dBA
2631	0	dBA
2671	0	dBA
2707	0	dBA
2760	0	dBA
2817	0	dBA
2884	0	dBA
2924	0	dBA
2988	0	dBA
2807	0	dBA
2852	0	dBA
2905	0	dBA
2961	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5126	0	dBA
5162	0	dBA
5195	0	dBA
5055	0	dBA
4763	0	dBA
4656	0	dBA
4560	0	dBA
4481	0	dBA
4399	0	dBA
4327	0	dBA
4443	0	dBA
4346	0	dBA
4259	0	dBA
4167	0	dBA
4077	0	dBA
2797	0	dBA
2513	0	dBA
2684	0	dBA
3104	0	dBA
2970	0	dBA
2827	0	dBA
2694	0	dBA
2158	0	dBA
3914	0	dBA
3884	0	dBA
3845	0	dBA
4052	0	dBA
4001	0	dBA
3974	0	dBA
3948	0	dBA
2280	0	dBA
2340	0	dBA
2411	0	dBA
2492	0	dBA
2541	0	dBA
2616	0	dBA
2346	0	dBA
2395	0	dBA
2438	0	dBA
2500	0	dBA
2566	0	dBA
2643	0	dBA
2689	0	dBA
2761	0	dBA
2519	0	dBA
2572	0	dBA
2635	0	dBA
2701	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON



Point of Reception ID <b>POR021</b>				Point of Reception ID <b>POR022</b>				Point of Reception ID <b>POR023</b>				Point of Reception ID <b>POR024</b>				Point of Reception ID <b>POR025</b>						
Point of Reception Description House 19				Point of Reception Description House 20				Point of Reception Description House 21				Point of Reception Description House 22				Point of Reception Description House 23						
X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z		X	Y	Z				
366841	4906227	132.6		366774	4906090	133.4		366475	4906165	136.1		366036	4906191	139.8		366367	4906131	137.6				
Source ID <sup>(1)</sup>	Source Description			Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>				
MVPP_P14A_U19	MVPP P14A_U19			2331	0	dBA		2470	0	dBA		2663	0	dBA		3023	0	dBA		2772	0	dBA
MVPP_P14A_U20	MVPP P14A_U20			2423	0	dBA		2565	0	dBA		2746	0	dBA		3094	0	dBA		2853	0	dBA
MVPP_P14A_U21	MVPP P14A_U21			2507	0	dBA		2651	0	dBA		2823	0	dBA		3161	0	dBA		2928	0	dBA
MVPP_P14B_U1	MVPP P14B_U1			1762	16	dBA		1907	16	dBA		2080	0	dBA		2429	0	dBA		2187	0	dBA
MVPP_P14B_U2	MVPP P14B_U2			1843	16	dBA		1990	15	dBA		2152	0	dBA		2488	0	dBA		2257	0	dBA
MVPP_P14B_U3	MVPP P14B_U3			1935	10	dBA		2084	0	dBA		2234	0	dBA		2557	0	dBA		2337	0	dBA
MVPP_P14B_U4	MVPP P14B_U4			1994	10	dBA		2143	0	dBA		2287	0	dBA		2602	0	dBA		2388	0	dBA
MVPP_P14B_U5	MVPP P14B_U5			2092	0	dBA		2243	0	dBA		2375	0	dBA		2678	0	dBA		2475	0	dBA
MVPP_P14B_U6	MVPP P14B_U6			1791	11	dBA		1941	10	dBA		2077	0	dBA		2389	0	dBA		2178	0	dBA
MVPP_P14B_U7	MVPP P14B_U7			1893	10	dBA		2044	0	dBA		2169	0	dBA		2467	0	dBA		2267	0	dBA
MVPP_P14B_U8	MVPP P14B_U8			2030	0	dBA		2182	0	dBA		2293	0	dBA		2574	0	dBA		2388	0	dBA
MVPP_P14C_U1	MVPP P14C_U1			1324	19	dBA		1475	18	dBA		1616	17	dBA		1944	15	dBA		1718	17	dBA
MVPP_P14C_U2	MVPP P14C_U2			1419	18	dBA		1570	17	dBA		1698	17	dBA		2010	0	dBA		1798	16	dBA
MVPP_P14C_U3	MVPP P14C_U3			1501	18	dBA		1653	17	dBA		1770	16	dBA		2069	0	dBA		1867	16	dBA
MVPP_P14C_U4	MVPP P14C_U4			1560	18	dBA		1710	17	dBA		1848	16	dBA		2166	0	dBA		1949	15	dBA
MVPP_P19_20_U1	MVPP P19/20_U1			864	19	dBA		856	20	dBA		562	23	dBA		303	32	dBA		502	28	dBA
MVPP_P19_U1	MVPP P19_U1			931	12	dBA		940	12	dBA		660	15	dBA		432	23	dBA		614	20	dBA
MVPP_P19_U2	MVPP P19_U2			1016	11	dBA		1035	11	dBA		762	14	dBA		537	21	dBA		720	14	dBA
MVPP_P19_U3	MVPP P19_U3			1113	10	dBA		1140	10	dBA		875	13	dBA		652	19	dBA		837	13	dBA
MVPP_P19_U4	MVPP P19_U4			1106	17	dBA		1098	17	dBA		801	20	dBA		467	28	dBA		733	21	dBA
MVPP_P19_U5	MVPP P19_U5			1191	10	dBA		1193	10	dBA		903	12	dBA		585	20	dBA		841	13	dBA
MVPP_P20_U1	MVPP P20_U1			1416	15	dBA		1411	15	dBA		1113	17	dBA		752	24	dBA		1041	18	dBA
MVPP_P21_U1	MVPP P21_U1			1983	5	dBA		1863	6	dBA		1632	7	dBA		1291	9	dBA		1522	8	dBA
MVPP_P21_U2	MVPP P21_U2			1979	5	dBA		1867	6	dBA		1619	7	dBA		1251	14	dBA		1507	8	dBA
MVPP_P21_U3	MVPP P21_U3			1986	11	dBA		1881	12	dBA		1620	13	dBA		1232	20	dBA		1507	14	dBA
MVPP_P21_U4	MVPP P21_U4			2000	11	dBA		1908	12	dBA		1629	13	dBA		1213	20	dBA		1516	14	dBA
MVPP_P21_U5	MVPP P21_U5			2020	0	dBA		1935	12	dBA		1649	13	dBA		1224	20	dBA		1537	14	dBA
MVPP_P21_U6	MVPP P21_U6			2048	0	dBA		1969	12	dBA		1678	13	dBA		1245	20	dBA		1567	14	dBA
MVPP_P21_U7	MVPP P21_U7			2082	0	dBA		2009	0	dBA		1713	13	dBA		1275	19	dBA		1603	14	dBA
MVPP_P21_U8	MVPP P21_U8			2120	0	dBA		2054	0	dBA		1753	6	dBA		1314	13	dBA		1646	7	dBA
MVPP_P21_U9	MVPP P21_U9			2177	0	dBA		2119	0	dBA		1815	6	dBA		1375	9	dBA		1710	7	dBA
MVPP_P22_U1	MVPP P22_U1			2139	0	dBA		2021	0	dBA		1784	13	dBA		1429	18	dBA		1673	17	dBA
MVPP_P22_U2	MVPP P22_U2			2139	0	dBA		2029	0	dBA		1776	13	dBA		1397	19	dBA		1663	13	dBA
MVPP_P22_U3	MVPP P22_U3			2165	0	dBA		2066	0	dBA		1797	12	dBA		1392	19	dBA		1683	13	dBA
MVPP_P22_U4	MVPP P22_U4			2196	0	dBA		2107	0	dBA		1825	12	dBA		1403	18	dBA		1712	13	dBA
MVPP_P22_U5	MVPP P22_U5			2233	0	dBA		2153	0	dBA		1862	6	dBA		1430	13	dBA		1751	6	dBA
MVPP_P22_U6	MVPP P22_U6			2365	0	dBA		2295	0	dBA		1997	5	dBA		1559	7	dBA		1888	6	dBA
MVPP_P23_U1	MVPP P23_U1			2351	0	dBA		2234	0	dBA		1994	11	dBA		1630	17	dBA		1882	12	dBA
MVPP_P23_U2	MVPP P23_U2			2351	0	dBA		2241	0	dBA		1989	11	dBA		1607	17	dBA		1876	12	dBA
MVPP_P23_U3	MVPP P23_U3			2362	0	dBA		2258	0	dBA		1994	11	dBA		1596	17	dBA		1881	12	dBA
MVPP_P23_U4	MVPP P23_U4			2379	0	dBA		2282	0	dBA		2009	0	dBA		1597	17	dBA		1896	12	dBA
MVPP_P23_U5	MVPP P23_U5			2409	0	dBA		2321	0	dBA		2038	0	dBA		1614	17	dBA		1925	12	dBA
MVPP_P23_U6	MVPP P23_U6			2443	0	dBA		2362	0	dBA		2072	0	dBA		1641	7	dBA		1961	5	dBA
MVPP_P23_U7	MVPP P23_U7			2484	0	dBA		2411	0	dBA		2115	0	dBA		1678	7	dBA		2005	0	dBA
MVPP_P24_U1	MVPP P24_U1			2129	0	dBA		1995	11	dBA		1804	12	dBA		1522	18	dBA		1701	17	dBA
MVPP_P24_U2	MVPP P24_U2			2033	0	dBA		1903	6	dBA		1699	7	dBA		1400	8	dBA		1594	12	dBA
MVPP_P24_U3	MVPP P24_U3			1926	12	dBA		1788	13	dBA		1613	14	dBA		1364	19	dBA		1514	18	dBA
TS	Transformer Station			3658	0	dBA		3803	0	dBA		3969	0	dBA		4292	0	dBA		4072	0	dBA
WB_H1T	Hut 1 Transformer			2847	0	dBA		2916	0	dBA		3213	0	dBA		3653	0	dBA		3322	0	dBA
WB_H1I1	Hut 1 Inverter 1			2846	0	dBA		2914	0	dBA		3212	0	dBA		3651	0	dBA		3320	0	dBA
WB_H1I2	Hut 1 Inverter 2			2849	0	dBA		2917	0	dBA		3214	0	dBA		3654	0	dBA		3323	0	dBA
WB_H2T	Hut 2 Transformer			2666	0	dBA		2734	0	dBA		3031	0	dBA		3471	0	dBA		3140	0	dBA
WB_H2I1	Hut 2 Inverter 1			2664	0	dBA		2733	0	dBA		3030	0	dBA		3470	0	dBA		3138	0	dBA
WB_H2I2	Hut 2 Inverter 2			2667	0	dBA		2735	0	dBA		3033	0	dBA		3472	0	dBA		3141	0	dBA
WB_H3T	Hut 3 Transformer			2484	0	dBA		2553	0	dBA		2850	0	dBA		3289	0	dBA		2958	0	dBA
WB_H3I1	Hut 3 Inverter 1			2483	0	dBA		2551	0	dBA		2848	0	dBA		3288	0	dBA		2957	0	dBA
WB_H3I2	Hut 3 Inverter 2			2485	0	dBA		2554	0	dBA		2851	0	dBA		3290	0	dBA		2959	0	dBA



**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON



Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR021</b>			Point of Reception ID <b>POR022</b>			Point of Reception ID <b>POR023</b>			Point of Reception ID <b>POR024</b>			Point of Reception ID <b>POR025</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
		Point of Reception Description House 19			Point of Reception Description House 20			Point of Reception Description House 21			Point of Reception Description House 22			Point of Reception Description House 23		
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
		366841	4906227	132.6	366774	4906090	133.4	366475	4906165	136.1	366036	4906191	139.8	366367	4906131	137.6
WB_H4T	Hut 4 Transformer	2602	0	dBA	2690	0	dBA	2973	0	dBA	3406	0	dBA	3085	0	dBA
WB_H4I1	Hut 4 Inverter 1	2600	0	dBA	2688	0	dBA	2971	0	dBA	3404	0	dBA	3083	0	dBA
WB_H4I2	Hut 4 Inverter 2	2602	0	dBA	2691	0	dBA	2973	0	dBA	3406	0	dBA	3085	0	dBA
WB_H5T	Hut 5 Transformer	3055	0	dBA	3141	0	dBA	3426	0	dBA	3860	0	dBA	3538	0	dBA
WB_H5I1	Hut 5 Inverter 1	3054	0	dBA	3139	0	dBA	3425	0	dBA	3859	0	dBA	3536	0	dBA
WB_H5I2	Hut 5 Inverter 2	3056	0	dBA	3142	0	dBA	3427	0	dBA	3861	0	dBA	3539	0	dBA
WB_H6T	Hut 6 Transformer	2936	0	dBA	3015	0	dBA	3305	0	dBA	3742	0	dBA	3416	0	dBA
WB_H6I1	Hut 6 Inverter 1	2934	0	dBA	3013	0	dBA	3304	0	dBA	3741	0	dBA	3414	0	dBA
WB_H6I2	Hut 6 Inverter 2	2937	0	dBA	3016	0	dBA	3306	0	dBA	3743	0	dBA	3417	0	dBA
WB_H7T	Hut 7 Transformer	2904	0	dBA	2991	0	dBA	3275	0	dBA	3709	0	dBA	3387	0	dBA
WB_H7I1	Hut 7 Inverter 1	2902	0	dBA	2989	0	dBA	3273	0	dBA	3707	0	dBA	3385	0	dBA
WB_H7I2	Hut 7 Inverter 2	2905	0	dBA	2991	0	dBA	3276	0	dBA	3710	0	dBA	3387	0	dBA
WB_H8T	Hut 8 Transformer	2759	0	dBA	2846	0	dBA	3130	0	dBA	3563	0	dBA	3242	0	dBA
WB_H8I1	Hut 8 Inverter 1	2757	0	dBA	2844	0	dBA	3128	0	dBA	3561	0	dBA	3240	0	dBA
WB_H8I2	Hut 8 Inverter 2	2759	0	dBA	2847	0	dBA	3130	0	dBA	3564	0	dBA	3242	0	dBA
WB_H9T	Hut 9 Transformer	2547	0	dBA	2627	0	dBA	2917	0	dBA	3354	0	dBA	3028	0	dBA
WB_H9I1	Hut 9 Inverter 1	2546	0	dBA	2625	0	dBA	2915	0	dBA	3352	0	dBA	3026	0	dBA
WB_H9I2	Hut 9 Inverter 2	2548	0	dBA	2628	0	dBA	2918	0	dBA	3355	0	dBA	3028	0	dBA
WB_H10T	Hut 10 Transformer	2785	0	dBA	2861	0	dBA	3153	0	dBA	3591	0	dBA	3263	0	dBA
WB_H10I1	Hut 10 Inverter 1	2783	0	dBA	2859	0	dBA	3152	0	dBA	3590	0	dBA	3262	0	dBA
WB_H10I2	Hut 10 Inverter 2	2786	0	dBA	2862	0	dBA	3154	0	dBA	3592	0	dBA	3264	0	dBA
WB_ST	Substation Transformer	2867	0	dBA	2929	0	dBA	3230	0	dBA	3670	0	dBA	3337	0	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	2843	0	dBA	2702	0	dBA	2778	0	dBA	2862	0	dBA	2752	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	3018	0	dBA	2875	0	dBA	2940	0	dBA	3005	0	dBA	2910	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	2993	0	dBA	2853	0	dBA	2933	0	dBA	3020	0	dBA	2909	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	3147	0	dBA	3005	0	dBA	3076	0	dBA	3148	0	dBA	3048	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	3124	0	dBA	2986	0	dBA	3071	0	dBA	3163	0	dBA	3048	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	3276	0	dBA	3135	0	dBA	3211	0	dBA	3288	0	dBA	3185	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	3256	0	dBA	3118	0	dBA	3209	0	dBA	3306	0	dBA	3187	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	3406	0	dBA	3266	0	dBA	3347	0	dBA	3430	0	dBA	3323	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	3388	0	dBA	3252	0	dBA	3347	0	dBA	3448	0	dBA	3327	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	3537	0	dBA	3398	0	dBA	3484	0	dBA	3571	0	dBA	3461	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	3523	0	dBA	3388	0	dBA	3486	0	dBA	3591	0	dBA	3468	0	dBA



**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID  
**POR026**

Point of Reception ID  
**POR027**

Point of Reception ID  
**POR028**

Point of Reception ID  
**POR029**

Point of Reception ID  
**POR030**

Point of Reception Description		
House 24		
X	Y	Z
366282	4906105	138.1

Point of Reception Description		
House 25		
X	Y	Z
366121	4906011	138.6

Point of Reception Description		
House 26		
X	Y	Z
365896	4906109	140.5

Point of Reception Description		
Vacant Lot Receptor 03		
X	Y	Z
365719	4905791	142.1

Point of Reception Description		
Vacant Lot Receptor 04		
X	Y	Z
365618	4905717	141.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5211	0	dBA
5247	0	dBA
5280	0	dBA
5137	0	dBA
4845	0	dBA
4739	0	dBA
4644	0	dBA
4565	0	dBA
4485	0	dBA
4413	0	dBA
4521	0	dBA
4425	0	dBA
4338	0	dBA
4247	0	dBA
4159	0	dBA
2864	0	dBA
2581	0	dBA
2755	0	dBA
3150	0	dBA
3017	0	dBA
2875	0	dBA
2743	0	dBA
2207	0	dBA
4004	0	dBA
3973	0	dBA
3935	0	dBA
4141	0	dBA
4090	0	dBA
4064	0	dBA
4037	0	dBA
2367	0	dBA
2426	0	dBA
2496	0	dBA
2575	0	dBA
2623	0	dBA
2697	0	dBA
2435	0	dBA
2483	0	dBA
2526	0	dBA
2586	0	dBA
2652	0	dBA
2728	0	dBA
2773	0	dBA
2844	0	dBA
2608	0	dBA
2660	0	dBA
2723	0	dBA
2788	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5397	0	dBA
5432	0	dBA
5464	0	dBA
5320	0	dBA
5028	0	dBA
4922	0	dBA
4828	0	dBA
4750	0	dBA
4670	0	dBA
4599	0	dBA
4699	0	dBA
4604	0	dBA
4518	0	dBA
4428	0	dBA
4341	0	dBA
3029	0	dBA
2747	0	dBA
2925	0	dBA
3283	0	dBA
3152	0	dBA
3012	0	dBA
2882	0	dBA
2347	0	dBA
4186	0	dBA
4154	0	dBA
4114	0	dBA
4323	0	dBA
4270	0	dBA
4242	0	dBA
4214	0	dBA
2552	0	dBA
2611	0	dBA
2680	0	dBA
2759	0	dBA
2806	0	dBA
2879	0	dBA
2620	0	dBA
2668	0	dBA
2711	0	dBA
2772	0	dBA
2837	0	dBA
2912	0	dBA
2957	0	dBA
3027	0	dBA
2792	0	dBA
2845	0	dBA
2909	0	dBA
2973	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5535	0	dBA
5565	0	dBA
5594	0	dBA
5435	0	dBA
5145	0	dBA
5043	0	dBA
4954	0	dBA
4882	0	dBA
4807	0	dBA
4741	0	dBA
4790	0	dBA
4700	0	dBA
4619	0	dBA
4535	0	dBA
4453	0	dBA
3081	0	dBA
2805	0	dBA
2993	0	dBA
3263	0	dBA
3136	0	dBA
3000	0	dBA
2875	0	dBA
2347	0	dBA
4370	0	dBA
4343	0	dBA
4308	0	dBA
4509	0	dBA
4462	0	dBA
4439	0	dBA
4415	0	dBA
2703	0	dBA
2754	0	dBA
2815	0	dBA
2885	0	dBA
2926	0	dBA
2993	0	dBA
2791	0	dBA
2832	0	dBA
2869	0	dBA
2921	0	dBA
2979	0	dBA
3046	0	dBA
3086	0	dBA
3149	0	dBA
2967	0	dBA
3012	0	dBA
3067	0	dBA
3123	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5854	0	dBA
5888	0	dBA
5920	0	dBA
5771	0	dBA
5479	0	dBA
5375	0	dBA
5282	0	dBA
5206	0	dBA
5127	0	dBA
5056	0	dBA
5138	0	dBA
5046	0	dBA
4963	0	dBA
4875	0	dBA
4790	0	dBA
3441	0	dBA
3163	0	dBA
3349	0	dBA
3624	0	dBA
3497	0	dBA
3362	0	dBA
3238	0	dBA
2710	0	dBA
4639	0	dBA
4605	0	dBA
4562	0	dBA
4775	0	dBA
4718	0	dBA
4688	0	dBA
4656	0	dBA
3010	0	dBA
3069	0	dBA
3136	0	dBA
3212	0	dBA
3258	0	dBA
3328	0	dBA
3077	0	dBA
3126	0	dBA
3170	0	dBA
3230	0	dBA
3295	0	dBA
3368	0	dBA
3411	0	dBA
3479	0	dBA
3249	0	dBA
3303	0	dBA
3367	0	dBA
3431	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5979	0	dBA
6014	0	dBA
6045	0	dBA
5896	0	dBA
5605	0	dBA
5501	0	dBA
5408	0	dBA
5331	0	dBA
5252	0	dBA
5182	0	dBA
5263	0	dBA
5171	0	dBA
5088	0	dBA
5000	0	dBA
4915	0	dBA
3561	0	dBA
3285	0	dBA
3471	0	dBA
3731	0	dBA
3605	0	dBA
3471	0	dBA
3348	0	dBA
2822	0	dBA
4760	0	dBA
4726	0	dBA
4681	0	dBA
4895	0	dBA
4837	0	dBA
4806	0	dBA
4773	0	dBA
3136	0	dBA
3194	0	dBA
3262	0	dBA
3338	0	dBA
3383	0	dBA
3454	0	dBA
3201	0	dBA
3251	0	dBA
3295	0	dBA
3355	0	dBA
3420	0	dBA
3494	0	dBA
3537	0	dBA
3605	0	dBA
3372	0	dBA
3427	0	dBA
3492	0	dBA
3556	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR026**

Point of Reception Description
House 24

X	Y	Z
366282	4906105	138.1

**Point of Reception ID**  
**POR027**

Point of Reception Description
House 25

X	Y	Z
366121	4906011	138.6

**Point of Reception ID**  
**POR028**

Point of Reception Description
House 26

X	Y	Z
365896	4906109	140.5

**Point of Reception ID**  
**POR029**

Point of Reception Description
Vacant Lot Receptor 03

X	Y	Z
365719	4905791	142.1

**Point of Reception ID**  
**POR030**

Point of Reception Description
Vacant Lot Receptor 04

X	Y	Z
365618	4905717	141.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2858	0	dBA
2938	0	dBA
3012	0	dBA
2271	0	dBA
2340	0	dBA
2418	0	dBA
2469	0	dBA
2554	0	dBA
2258	0	dBA
2345	0	dBA
2464	0	dBA
1800	16	dBA
1877	16	dBA
1945	15	dBA
2030	0	dBA
469	28	dBA
589	20	dBA
698	15	dBA
817	13	dBA
687	22	dBA
800	13	dBA
990	18	dBA
1435	8	dBA
1419	13	dBA
1418	15	dBA
1427	15	dBA
1448	15	dBA
1479	14	dBA
1517	14	dBA
1562	7	dBA
1629	7	dBA
1586	17	dBA
1574	17	dBA
1594	14	dBA
1624	13	dBA
1663	7	dBA
1802	6	dBA
1794	12	dBA
1787	13	dBA
1792	12	dBA
1806	12	dBA
1836	12	dBA
1873	6	dBA
1919	6	dBA
1621	17	dBA
1511	12	dBA
1437	18	dBA
4155	0	dBA
3407	0	dBA
3406	0	dBA
3409	0	dBA
3226	0	dBA
3224	0	dBA
3227	0	dBA
3044	0	dBA
3043	0	dBA
3045	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3043	0	dBA
3123	0	dBA
3196	0	dBA
2456	0	dBA
2523	0	dBA
2601	0	dBA
2650	0	dBA
2734	0	dBA
2439	0	dBA
2524	0	dBA
2641	0	dBA
1983	15	dBA
2058	0	dBA
2125	0	dBA
2212	0	dBA
493	28	dBA
622	20	dBA
729	19	dBA
847	17	dBA
665	25	dBA
784	14	dBA
943	19	dBA
1250	14	dBA
1234	14	dBA
1235	20	dBA
1252	16	dBA
1278	16	dBA
1315	15	dBA
1359	15	dBA
1411	8	dBA
1486	8	dBA
1400	18	dBA
1390	19	dBA
1414	18	dBA
1450	15	dBA
1497	8	dBA
1645	7	dBA
1609	17	dBA
1603	17	dBA
1610	17	dBA
1628	13	dBA
1664	13	dBA
1706	7	dBA
1758	6	dBA
1441	18	dBA
1330	13	dBA
1263	19	dBA
4337	0	dBA
3571	0	dBA
3569	0	dBA
3572	0	dBA
3389	0	dBA
3388	0	dBA
3390	0	dBA
3208	0	dBA
3206	0	dBA
3209	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3185	0	dBA
3257	0	dBA
3323	0	dBA
2591	0	dBA
2650	0	dBA
2719	0	dBA
2763	0	dBA
2838	0	dBA
2550	0	dBA
2626	0	dBA
2732	0	dBA
2105	0	dBA
2171	0	dBA
2229	0	dBA
2327	0	dBA
404	30	dBA
522	21	dBA
615	20	dBA
721	19	dBA
493	28	dBA
610	20	dBA
733	24	dBA
1132	15	dBA
1089	15	dBA
1070	21	dBA
1080	21	dBA
1054	21	dBA
1069	21	dBA
1095	21	dBA
1132	20	dBA
1176	14	dBA
1246	14	dBA
1269	19	dBA
1235	20	dBA
1231	20	dBA
1247	20	dBA
1280	14	dBA
1416	13	dBA
1469	18	dBA
1445	18	dBA
1435	18	dBA
1438	18	dBA
1459	18	dBA
1490	12	dBA
1534	12	dBA
1374	19	dBA
1249	14	dBA
1225	20	dBA
4453	0	dBA
3793	0	dBA
3792	0	dBA
3794	0	dBA
3611	0	dBA
3610	0	dBA
3613	0	dBA
3430	0	dBA
3428	0	dBA
3431	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3500	0	dBA
3578	0	dBA
3650	0	dBA
2912	0	dBA
2977	0	dBA
3051	0	dBA
3099	0	dBA
3179	0	dBA
2887	0	dBA
2968	0	dBA
3079	0	dBA
2435	0	dBA
2506	0	dBA
2569	0	dBA
2661	0	dBA
764	25	dBA
876	17	dBA
959	16	dBA
1056	15	dBA
804	24	dBA
910	17	dBA
968	23	dBA
794	18	dBA
776	18	dBA
785	25	dBA
832	24	dBA
875	24	dBA
933	23	dBA
1000	22	dBA
1073	15	dBA
1176	14	dBA
942	23	dBA
935	23	dBA
974	23	dBA
1034	22	dBA
1105	15	dBA
1280	14	dBA
1151	21	dBA
1147	21	dBA
1162	21	dBA
1193	21	dBA
1247	20	dBA
1308	13	dBA
1380	13	dBA
1013	22	dBA
891	17	dBA
862	24	dBA
4788	0	dBA
3988	0	dBA
3986	0	dBA
3989	0	dBA
3807	0	dBA
3805	0	dBA
3808	0	dBA
3626	0	dBA
3624	0	dBA
3627	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3626	0	dBA
3704	0	dBA
3776	0	dBA
3037	0	dBA
3103	0	dBA
3177	0	dBA
3224	0	dBA
3304	0	dBA
3012	0	dBA
3093	0	dBA
3203	0	dBA
2560	0	dBA
2632	0	dBA
2694	0	dBA
2787	0	dBA
874	24	dBA
981	16	dBA
1059	15	dBA
1150	15	dBA
892	23	dBA
992	16	dBA
1026	22	dBA
668	19	dBA
653	19	dBA
670	26	dBA
734	25	dBA
787	25	dBA
855	24	dBA
930	23	dBA
1011	16	dBA
1124	15	dBA
817	24	dBA
814	24	dBA
864	24	dBA
937	23	dBA
1018	16	dBA
1203	14	dBA
1026	22	dBA
1027	22	dBA
1047	22	dBA
1084	22	dBA
1147	21	dBA
1217	14	dBA
1297	14	dBA
894	23	dBA
769	18	dBA
753	25	dBA
4914	0	dBA
4097	0	dBA
4095	0	dBA
4097	0	dBA
3916	0	dBA
3914	0	dBA
3917	0	dBA
3736	0	dBA
3734	0	dBA
3736	0	dBA



**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID  
**POR026**

Point of Reception Description  
 House 24

X	Y	Z
366282	4906105	138.1

Source ID <sup>(1)</sup>	Source Description	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
WB_H4T	Hut 4 Transformer	3173	0	dBA
WB_H4I1	Hut 4 Inverter 1	3171	0	dBA
WB_H4I2	Hut 4 Inverter 2	3174	0	dBA
WB_H5T	Hut 5 Transformer	3626	0	dBA
WB_H5I1	Hut 5 Inverter 1	3624	0	dBA
WB_H5I2	Hut 5 Inverter 2	3627	0	dBA
WB_H6T	Hut 6 Transformer	3503	0	dBA
WB_H6I1	Hut 6 Inverter 1	3502	0	dBA
WB_H6I2	Hut 6 Inverter 2	3504	0	dBA
WB_H7T	Hut 7 Transformer	3475	0	dBA
WB_H7I1	Hut 7 Inverter 1	3473	0	dBA
WB_H7I2	Hut 7 Inverter 2	3476	0	dBA
WB_H8T	Hut 8 Transformer	3330	0	dBA
WB_H8I1	Hut 8 Inverter 1	3328	0	dBA
WB_H8I2	Hut 8 Inverter 2	3331	0	dBA
WB_H9T	Hut 9 Transformer	3115	0	dBA
WB_H9I1	Hut 9 Inverter 1	3113	0	dBA
WB_H9I2	Hut 9 Inverter 2	3116	0	dBA
WB_H10T	Hut 10 Transformer	3350	0	dBA
WB_H10I1	Hut 10 Inverter 1	3349	0	dBA
WB_H10I2	Hut 10 Inverter 2	3351	0	dBA
WB_ST	Substation Transformer	3422	0	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	2736	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	2889	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	2893	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	3029	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	3034	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	3167	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	3174	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	3306	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	3314	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	3445	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	3456	0	dBA

Point of Reception ID  
**POR027**

Point of Reception Description  
 House 25

X	Y	Z
366121	4906011	138.6

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
3346	0	dBA
3344	0	dBA
3347	0	dBA
3798	0	dBA
3796	0	dBA
3798	0	dBA
3672	0	dBA
3670	0	dBA
3673	0	dBA
3647	0	dBA
3645	0	dBA
3648	0	dBA
3503	0	dBA
3501	0	dBA
3503	0	dBA
3284	0	dBA
3282	0	dBA
3285	0	dBA
3518	0	dBA
3516	0	dBA
3519	0	dBA
3582	0	dBA
2669	0	dBA
2815	0	dBA
2827	0	dBA
2957	0	dBA
2970	0	dBA
3097	0	dBA
3112	0	dBA
3238	0	dBA
3254	0	dBA
3378	0	dBA
3397	0	dBA

Point of Reception ID  
**POR028**

Point of Reception Description  
 House 26

X	Y	Z
365896	4906109	140.5

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
3555	0	dBA
3553	0	dBA
3555	0	dBA
4008	0	dBA
4007	0	dBA
4009	0	dBA
3887	0	dBA
3886	0	dBA
3888	0	dBA
3857	0	dBA
3855	0	dBA
3858	0	dBA
3712	0	dBA
3710	0	dBA
3712	0	dBA
3499	0	dBA
3498	0	dBA
3500	0	dBA
3735	0	dBA
3734	0	dBA
3736	0	dBA
3808	0	dBA
2815	0	dBA
2951	0	dBA
2974	0	dBA
3095	0	dBA
3118	0	dBA
3237	0	dBA
3262	0	dBA
3380	0	dBA
3405	0	dBA
3522	0	dBA
3549	0	dBA

Point of Reception ID  
**POR029**

Point of Reception Description  
 Vacant Lot Receptor 03

X	Y	Z
365719	4905791	142.1

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
3783	0	dBA
3781	0	dBA
3783	0	dBA
4232	0	dBA
4229	0	dBA
4232	0	dBA
4100	0	dBA
4098	0	dBA
4101	0	dBA
4082	0	dBA
4080	0	dBA
4082	0	dBA
3938	0	dBA
3936	0	dBA
3939	0	dBA
3713	0	dBA
3711	0	dBA
3714	0	dBA
3943	0	dBA
3941	0	dBA
3943	0	dBA
3993	0	dBA
2567	0	dBA
2689	0	dBA
2726	0	dBA
2835	0	dBA
2871	0	dBA
2978	0	dBA
3015	0	dBA
3122	0	dBA
3159	0	dBA
3266	0	dBA
3304	0	dBA

Point of Reception ID  
**POR030**

Point of Reception Description  
 Vacant Lot Receptor 04

X	Y	Z
365618	4905717	141.5

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
3898	0	dBA
3896	0	dBA
3899	0	dBA
4346	0	dBA
4343	0	dBA
4346	0	dBA
4212	0	dBA
4210	0	dBA
4213	0	dBA
4196	0	dBA
4194	0	dBA
4197	0	dBA
4053	0	dBA
4051	0	dBA
4053	0	dBA
3826	0	dBA
3824	0	dBA
3826	0	dBA
4054	0	dBA
4052	0	dBA
4055	0	dBA
4100	0	dBA
2537	0	dBA
2651	0	dBA
2695	0	dBA
2798	0	dBA
2840	0	dBA
2942	0	dBA
2984	0	dBA
3086	0	dBA
3128	0	dBA
3230	0	dBA
3274	0	dBA

Source ID <sup>(1)</sup>	Source Description
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit



**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID  
**POR031**

Point of Reception ID  
**POR032**

Point of Reception ID  
**POR033**

Point of Reception ID  
**POR034**

Point of Reception ID  
**POR035**

Point of Reception Description  
 Vacant Lot Receptor 05

Point of Reception Description  
 Vacant Lot Receptor 06

Point of Reception Description  
 Vacant Lot Receptor 07

Point of Reception Description  
 House 27

Point of Reception Description  
 Vacant Lot Receptor 08

X	Y	Z
365573	4905681	141.1

X	Y	Z
365636	4905676	139.5

X	Y	Z
365824	4905637	138.5

X	Y	Z
365333	4905535	135.5

X	Y	Z
365369	4905459	136.0

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_1_U1	MVPP P2/1_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
6036	0	dBA
6071	0	dBA
6102	0	dBA
5953	0	dBA
5662	0	dBA
5558	0	dBA
5465	0	dBA
5388	0	dBA
5309	0	dBA
5238	0	dBA
5319	0	dBA
5227	0	dBA
5144	0	dBA
5057	0	dBA
4972	0	dBA
3616	0	dBA
3340	0	dBA
3527	0	dBA
3781	0	dBA
3655	0	dBA
3522	0	dBA
3400	0	dBA
2874	0	dBA
4814	0	dBA
4779	0	dBA
4734	0	dBA
4949	0	dBA
4890	0	dBA
4859	0	dBA
4825	0	dBA
3192	0	dBA
3251	0	dBA
3318	0	dBA
3395	0	dBA
3440	0	dBA
3511	0	dBA
3256	0	dBA
3306	0	dBA
3351	0	dBA
3412	0	dBA
3477	0	dBA
3550	0	dBA
3594	0	dBA
3662	0	dBA
3427	0	dBA
3483	0	dBA
3548	0	dBA
3613	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5986	0	dBA
6022	0	dBA
6054	0	dBA
5908	0	dBA
5616	0	dBA
5511	0	dBA
5417	0	dBA
5340	0	dBA
5260	0	dBA
5188	0	dBA
5278	0	dBA
5185	0	dBA
5102	0	dBA
5013	0	dBA
4927	0	dBA
3582	0	dBA
3305	0	dBA
3490	0	dBA
3761	0	dBA
3635	0	dBA
3501	0	dBA
3377	0	dBA
2850	0	dBA
4757	0	dBA
4722	0	dBA
4675	0	dBA
4892	0	dBA
4832	0	dBA
4800	0	dBA
4765	0	dBA
3141	0	dBA
3201	0	dBA
3270	0	dBA
3348	0	dBA
3394	0	dBA
3466	0	dBA
3202	0	dBA
3253	0	dBA
3298	0	dBA
3361	0	dBA
3427	0	dBA
3502	0	dBA
3546	0	dBA
3616	0	dBA
3372	0	dBA
3429	0	dBA
3495	0	dBA
3562	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5853	0	dBA
5891	0	dBA
5926	0	dBA
5789	0	dBA
5497	0	dBA
5389	0	dBA
5292	0	dBA
5211	0	dBA
5128	0	dBA
5053	0	dBA
5175	0	dBA
5079	0	dBA
4992	0	dBA
4901	0	dBA
4811	0	dBA
3505	0	dBA
3224	0	dBA
3403	0	dBA
3731	0	dBA
3602	0	dBA
3464	0	dBA
3337	0	dBA
2805	0	dBA
4596	0	dBA
4559	0	dBA
4510	0	dBA
4731	0	dBA
4667	0	dBA
4632	0	dBA
4595	0	dBA
3004	0	dBA
3069	0	dBA
3142	0	dBA
3226	0	dBA
3274	0	dBA
3350	0	dBA
3053	0	dBA
3108	0	dBA
3157	0	dBA
3224	0	dBA
3295	0	dBA
3375	0	dBA
3422	0	dBA
3495	0	dBA
3220	0	dBA
3282	0	dBA
3353	0	dBA
3424	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
6317	0	dBA
6351	0	dBA
6382	0	dBA
6232	0	dBA
5941	0	dBA
5837	0	dBA
5745	0	dBA
5669	0	dBA
5590	0	dBA
5519	0	dBA
5593	0	dBA
5503	0	dBA
5421	0	dBA
5335	0	dBA
5250	0	dBA
3880	0	dBA
3606	0	dBA
3796	0	dBA
4013	0	dBA
3890	0	dBA
3760	0	dBA
3640	0	dBA
3120	0	dBA
5090	0	dBA
5055	0	dBA
5007	0	dBA
5225	0	dBA
5164	0	dBA
5131	0	dBA
5095	0	dBA
3473	0	dBA
3532	0	dBA
3599	0	dBA
3675	0	dBA
3719	0	dBA
3789	0	dBA
3536	0	dBA
3587	0	dBA
3632	0	dBA
3693	0	dBA
3758	0	dBA
3831	0	dBA
3874	0	dBA
3942	0	dBA
3706	0	dBA
3763	0	dBA
3829	0	dBA
3894	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
6329	0	dBA
6365	0	dBA
6398	0	dBA
6252	0	dBA
5960	0	dBA
5855	0	dBA
5761	0	dBA
5683	0	dBA
5603	0	dBA
5530	0	dBA
5621	0	dBA
5529	0	dBA
5445	0	dBA
5357	0	dBA
5272	0	dBA
3917	0	dBA
3642	0	dBA
3829	0	dBA
4067	0	dBA
3943	0	dBA
3811	0	dBA
3690	0	dBA
3168	0	dBA
5085	0	dBA
5048	0	dBA
4998	0	dBA
5220	0	dBA
5156	0	dBA
5120	0	dBA
5082	0	dBA
3483	0	dBA
3544	0	dBA
3614	0	dBA
3692	0	dBA
3738	0	dBA
3810	0	dBA
3539	0	dBA
3592	0	dBA
3639	0	dBA
3703	0	dBA
3770	0	dBA
3846	0	dBA
3890	0	dBA
3960	0	dBA
3707	0	dBA
3767	0	dBA
3835	0	dBA
3903	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID <b>POR031</b>			Point of Reception ID <b>POR032</b>			Point of Reception ID <b>POR033</b>			Point of Reception ID <b>POR034</b>			Point of Reception ID <b>POR035</b>				
Point of Reception Description Vacant Lot Receptor 05			Point of Reception Description Vacant Lot Receptor 06			Point of Reception Description Vacant Lot Receptor 07			Point of Reception Description House 27			Point of Reception Description Vacant Lot Receptor 08				
X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z		
365573	4905681	141.1	365636	4905676	139.5	365824	4905637	138.5	365333	4905535	135.5	365369	4905459	136.0		
Source ID <sup>(1)</sup>	Source Description	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
MVPP_P14A_U19	MVPP P14A_U19	3682	0	dBA	3632	0	dBA	3499	0	dBA	3963	0	dBA	3975	0	dBA
MVPP_P14A_U20	MVPP P14A_U20	3761	0	dBA	3712	0	dBA	3584	0	dBA	4041	0	dBA	4056	0	dBA
MVPP_P14A_U21	MVPP P14A_U21	3833	0	dBA	3785	0	dBA	3661	0	dBA	4113	0	dBA	4129	0	dBA
MVPP_P14B_U1	MVPP P14B_U1	3094	0	dBA	3046	0	dBA	2919	0	dBA	3375	0	dBA	3389	0	dBA
MVPP_P14B_U2	MVPP P14B_U2	3159	0	dBA	3112	0	dBA	2990	0	dBA	3439	0	dBA	3456	0	dBA
MVPP_P14B_U3	MVPP P14B_U3	3234	0	dBA	3188	0	dBA	3071	0	dBA	3513	0	dBA	3533	0	dBA
MVPP_P14B_U4	MVPP P14B_U4	3281	0	dBA	3236	0	dBA	3122	0	dBA	3559	0	dBA	3580	0	dBA
MVPP_P14B_U5	MVPP P14B_U5	3361	0	dBA	3317	0	dBA	3208	0	dBA	3638	0	dBA	3661	0	dBA
MVPP_P14B_U6	MVPP P14B_U6	3069	0	dBA	3024	0	dBA	2912	0	dBA	3347	0	dBA	3368	0	dBA
MVPP_P14B_U7	MVPP P14B_U7	3150	0	dBA	3107	0	dBA	2999	0	dBA	3427	0	dBA	3451	0	dBA
MVPP_P14B_U8	MVPP P14B_U8	3260	0	dBA	3219	0	dBA	3117	0	dBA	3534	0	dBA	3561	0	dBA
MVPP_P14C_U1	MVPP P14C_U1	2617	0	dBA	2571	0	dBA	2453	0	dBA	2897	0	dBA	2915	0	dBA
MVPP_P14C_U2	MVPP P14C_U2	2689	0	dBA	2644	0	dBA	2531	0	dBA	2967	0	dBA	2988	0	dBA
MVPP_P14C_U3	MVPP P14C_U3	2751	0	dBA	2708	0	dBA	2600	0	dBA	3028	0	dBA	3051	0	dBA
MVPP_P14C_U4	MVPP P14C_U4	2843	0	dBA	2798	0	dBA	2683	0	dBA	3122	0	dBA	3142	0	dBA
MVPP_P19_20_U1	MVPP P19/20_U1	927	23	dBA	903	23	dBA	878	23	dBA	1179	17	dBA	1222	17	dBA
MVPP_P19_U1	MVPP P19_U1	1031	16	dBA	1012	16	dBA	999	15	dBA	1273	9	dBA	1321	9	dBA
MVPP_P19_U2	MVPP P19_U2	1107	15	dBA	1092	15	dBA	1092	15	dBA	1338	9	dBA	1391	9	dBA
MVPP_P19_U3	MVPP P19_U3	1196	14	dBA	1185	14	dBA	1196	10	dBA	1415	8	dBA	1472	8	dBA
MVPP_P19_U4	MVPP P19_U4	937	23	dBA	929	23	dBA	955	23	dBA	1153	17	dBA	1210	17	dBA
MVPP_P19_U5	MVPP P19_U5	1034	16	dBA	1031	16	dBA	1066	11	dBA	1237	10	dBA	1298	9	dBA
MVPP_P20_U1	MVPP P20_U1	1058	22	dBA	1069	22	dBA	1142	18	dBA	1217	16	dBA	1288	16	dBA
MVPP_P21_U1	MVPP P21_U1	611	20	dBA	661	19	dBA	812	20	dBA	331	25	dBA	323	25	dBA
MVPP_P21_U2	MVPP P21_U2	599	20	dBA	657	19	dBA	829	20	dBA	327	25	dBA	357	24	dBA
MVPP_P21_U3	MVPP P21_U3	620	27	dBA	682	26	dBA	866	27	dBA	377	30	dBA	429	30	dBA
MVPP_P21_U4	MVPP P21_U4	695	26	dBA	759	25	dBA	950	25	dBA	517	28	dBA	589	27	dBA
MVPP_P21_U5	MVPP P21_U5	753	25	dBA	815	24	dBA	1007	25	dBA	599	26	dBA	674	26	dBA
MVPP_P21_U6	MVPP P21_U6	825	24	dBA	886	23	dBA	1076	24	dBA	694	25	dBA	771	25	dBA
MVPP_P21_U7	MVPP P21_U7	905	23	dBA	964	23	dBA	1152	23	dBA	792	20	dBA	872	20	dBA
MVPP_P21_U8	MVPP P21_U8	990	16	dBA	1048	15	dBA	1232	16	dBA	893	12	dBA	973	12	dBA
MVPP_P21_U9	MVPP P21_U9	1106	15	dBA	1162	15	dBA	1342	15	dBA	1026	11	dBA	1108	11	dBA
MVPP_P22_U1	MVPP P22_U1	760	25	dBA	814	24	dBA	972	25	dBA	480	28	dBA	483	29	dBA
MVPP_P22_U2	MVPP P22_U2	761	25	dBA	820	24	dBA	995	25	dBA	494	28	dBA	524	28	dBA
MVPP_P22_U3	MVPP P22_U3	817	24	dBA	880	24	dBA	1067	24	dBA	585	26	dBA	638	26	dBA
MVPP_P22_U4	MVPP P22_U4	897	23	dBA	960	23	dBA	1152	23	dBA	703	25	dBA	768	25	dBA
MVPP_P22_U5	MVPP P22_U5	984	16	dBA	1047	15	dBA	1238	16	dBA	819	18	dBA	889	17	dBA
MVPP_P22_U6	MVPP P22_U6	1174	14	dBA	1235	14	dBA	1425	14	dBA	1027	11	dBA	1100	11	dBA
MVPP_P23_U1	MVPP P23_U1	971	23	dBA	1025	22	dBA	1186	23	dBA	691	25	dBA	698	26	dBA
MVPP_P23_U2	MVPP P23_U2	973	23	dBA	1032	22	dBA	1204	23	dBA	703	25	dBA	726	25	dBA
MVPP_P23_U3	MVPP P23_U3	997	22	dBA	1058	22	dBA	1240	22	dBA	742	24	dBA	779	25	dBA
MVPP_P23_U4	MVPP P23_U4	1038	22	dBA	1101	21	dBA	1288	22	dBA	803	20	dBA	852	24	dBA
MVPP_P23_U5	MVPP P23_U5	1106	21	dBA	1169	21	dBA	1360	21	dBA	897	23	dBA	955	23	dBA
MVPP_P23_U6	MVPP P23_U6	1180	14	dBA	1243	14	dBA	1435	14	dBA	992	12	dBA	1056	15	dBA
MVPP_P23_U7	MVPP P23_U7	1264	14	dBA	1327	13	dBA	1518	14	dBA	1097	11	dBA	1165	10	dBA
MVPP_P24_U1	MVPP P24_U1	839	24	dBA	871	24	dBA	967	24	dBA	600	26	dBA	544	28	dBA
MVPP_P24_U2	MVPP P24_U2	714	19	dBA	750	18	dBA	861	19	dBA	464	22	dBA	414	23	dBA
MVPP_P24_U3	MVPP P24_U3	705	26	dBA	722	25	dBA	785	26	dBA	521	27	dBA	445	30	dBA
TS	Transformer Station	4970	0	dBA	4925	0	dBA	4806	0	dBA	5249	0	dBA	5269	0	dBA
WB_H1T	Hut 1 Transformer	4145	0	dBA	4083	0	dBA	3902	0	dBA	4402	0	dBA	4379	0	dBA
WB_H1I1	Hut 1 Inverter 1	4143	0	dBA	4081	0	dBA	3900	0	dBA	4401	0	dBA	4377	0	dBA
WB_H1I2	Hut 1 Inverter 2	4146	0	dBA	4083	0	dBA	3902	0	dBA	4403	0	dBA	4379	0	dBA
WB_H2T	Hut 2 Transformer	3965	0	dBA	3903	0	dBA	3722	0	dBA	4223	0	dBA	4200	0	dBA
WB_H2I1	Hut 2 Inverter 1	3963	0	dBA	3901	0	dBA	3720	0	dBA	4221	0	dBA	4198	0	dBA
WB_H2I2	Hut 2 Inverter 2	3965	0	dBA	3903	0	dBA	3722	0	dBA	4223	0	dBA	4200	0	dBA
WB_H3T	Hut 3 Transformer	3784	0	dBA	3722	0	dBA	3542	0	dBA	4043	0	dBA	4021	0	dBA
WB_H3I1	Hut 3 Inverter 1	3782	0	dBA	3720	0	dBA	3540	0	dBA	4041	0	dBA	4019	0	dBA
WB_H3I2	Hut 3 Inverter 2	3785	0	dBA	3723	0	dBA	3542	0	dBA	4044	0	dBA	4021	0	dBA





**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR031</b>			Point of Reception ID <b>POR032</b>			Point of Reception ID <b>POR033</b>			Point of Reception ID <b>POR034</b>			Point of Reception ID <b>POR035</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
		Point of Reception Description Vacant Lot Receptor 05			Point of Reception Description Vacant Lot Receptor 06			Point of Reception Description Vacant Lot Receptor 07			Point of Reception Description House 27			Point of Reception Description Vacant Lot Receptor 08		
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
		365573	4905681	141.1	365636	4905676	139.5	365824	4905637	138.5	365333	4905535	135.5	365369	4905459	136.0
								37								
WB_H4T	Hut 4 Transformer	3950	0	dBA	3890	0	dBA	3717	0	dBA	4218	0	dBA	4203	0	dBA
WB_H4I1	Hut 4 Inverter 1	3947	0	dBA	3887	0	dBA	3714	0	dBA	4215	0	dBA	4200	0	dBA
WB_H4I2	Hut 4 Inverter 2	3950	0	dBA	3890	0	dBA	3717	0	dBA	4218	0	dBA	4203	0	dBA
WB_H5T	Hut 5 Transformer	4396	0	dBA	4336	0	dBA	4161	0	dBA	4662	0	dBA	4645	0	dBA
WB_H5I1	Hut 5 Inverter 1	4394	0	dBA	4333	0	dBA	4158	0	dBA	4660	0	dBA	4643	0	dBA
WB_H5I2	Hut 5 Inverter 2	4397	0	dBA	4336	0	dBA	4161	0	dBA	4662	0	dBA	4645	0	dBA
WB_H6T	Hut 6 Transformer	4262	0	dBA	4201	0	dBA	4023	0	dBA	4525	0	dBA	4506	0	dBA
WB_H6I1	Hut 6 Inverter 1	4260	0	dBA	4199	0	dBA	4021	0	dBA	4523	0	dBA	4504	0	dBA
WB_H6I2	Hut 6 Inverter 2	4263	0	dBA	4201	0	dBA	4024	0	dBA	4526	0	dBA	4506	0	dBA
WB_H7T	Hut 7 Transformer	4247	0	dBA	4187	0	dBA	4012	0	dBA	4514	0	dBA	4498	0	dBA
WB_H7I1	Hut 7 Inverter 1	4245	0	dBA	4184	0	dBA	4010	0	dBA	4512	0	dBA	4495	0	dBA
WB_H7I2	Hut 7 Inverter 2	4247	0	dBA	4187	0	dBA	4012	0	dBA	4514	0	dBA	4498	0	dBA
WB_H8T	Hut 8 Transformer	4104	0	dBA	4044	0	dBA	3870	0	dBA	4372	0	dBA	4356	0	dBA
WB_H8I1	Hut 8 Inverter 1	4102	0	dBA	4041	0	dBA	3868	0	dBA	4369	0	dBA	4353	0	dBA
WB_H8I2	Hut 8 Inverter 2	4104	0	dBA	4044	0	dBA	3870	0	dBA	4372	0	dBA	4356	0	dBA
WB_H9T	Hut 9 Transformer	3876	0	dBA	3815	0	dBA	3638	0	dBA	4140	0	dBA	4122	0	dBA
WB_H9I1	Hut 9 Inverter 1	3874	0	dBA	3813	0	dBA	3636	0	dBA	4138	0	dBA	4119	0	dBA
WB_H9I2	Hut 9 Inverter 2	3876	0	dBA	3815	0	dBA	3639	0	dBA	4140	0	dBA	4122	0	dBA
WB_H10T	Hut 10 Transformer	4104	0	dBA	4042	0	dBA	3864	0	dBA	4366	0	dBA	4345	0	dBA
WB_H10I1	Hut 10 Inverter 1	4102	0	dBA	4040	0	dBA	3862	0	dBA	4363	0	dBA	4343	0	dBA
WB_H10I2	Hut 10 Inverter 2	4104	0	dBA	4043	0	dBA	3864	0	dBA	4366	0	dBA	4345	0	dBA
WB_ST	Substation Transformer	4147	0	dBA	4084	0	dBA	3901	0	dBA	4401	0	dBA	4375	0	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	2523	0	dBA	2492	0	dBA	2387	0	dBA	2507	0	dBA	2424	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	2634	0	dBA	2606	0	dBA	2511	0	dBA	2599	0	dBA	2515	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	2680	0	dBA	2650	0	dBA	2545	0	dBA	2661	0	dBA	2577	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	2781	0	dBA	2753	0	dBA	2657	0	dBA	2746	0	dBA	2662	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	2825	0	dBA	2795	0	dBA	2690	0	dBA	2805	0	dBA	2721	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	2925	0	dBA	2897	0	dBA	2800	0	dBA	2890	0	dBA	2805	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	2970	0	dBA	2939	0	dBA	2834	0	dBA	2948	0	dBA	2864	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	3069	0	dBA	3041	0	dBA	2944	0	dBA	3033	0	dBA	2949	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	3114	0	dBA	3083	0	dBA	2978	0	dBA	3091	0	dBA	3007	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	3213	0	dBA	3185	0	dBA	3087	0	dBA	3178	0	dBA	3093	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	3259	0	dBA	3229	0	dBA	3123	0	dBA	3236	0	dBA	3152	0	dBA



**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID  
**POR036**

Point of Reception ID  
**POR037**

Point of Reception ID  
**POR038**

Point of Reception ID  
**POR039**

Point of Reception ID  
**POR040**

Point of Reception Description  
**House 28**

Point of Reception Description  
**House 29**

Point of Reception Description  
**House 30**

Point of Reception Description  
**House 31**

Point of Reception Description  
**House 32**

X	Y	Z
365290	4905358	132.3

X	Y	Z
365179	4904779	133.5

X	Y	Z
364852	4904498	133.4

X	Y	Z
364699	4904336	132.5

X	Y	Z
364673	4904024	130.9

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
6451	0	dBA
6488	0	dBA
6521	0	dBA
6377	0	dBA
6085	0	dBA
5980	0	dBA
5885	0	dBA
5807	0	dBA
5725	0	dBA
5652	0	dBA
5748	0	dBA
5655	0	dBA
5572	0	dBA
5483	0	dBA
5397	0	dBA
4045	0	dBA
3770	0	dBA
3957	0	dBA
4191	0	dBA
4068	0	dBA
3937	0	dBA
3816	0	dBA
3295	0	dBA
5197	0	dBA
5159	0	dBA
5107	0	dBA
5331	0	dBA
5264	0	dBA
5227	0	dBA
5188	0	dBA
3604	0	dBA
3666	0	dBA
3737	0	dBA
3816	0	dBA
3863	0	dBA
3935	0	dBA
3656	0	dBA
3711	0	dBA
3758	0	dBA
3824	0	dBA
3892	0	dBA
3969	0	dBA
4014	0	dBA
4084	0	dBA
3823	0	dBA
3885	0	dBA
3955	0	dBA
4024	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
6881	0	dBA
6926	0	dBA
6965	0	dBA
6842	0	dBA
6549	0	dBA
6437	0	dBA
6335	0	dBA
6249	0	dBA
6160	0	dBA
6079	0	dBA
6243	0	dBA
6145	0	dBA
6056	0	dBA
5961	0	dBA
5868	0	dBA
4577	0	dBA
4297	0	dBA
4476	0	dBA
4765	0	dBA
4640	0	dBA
4507	0	dBA
4383	0	dBA
3857	0	dBA
5547	0	dBA
5499	0	dBA
5434	0	dBA
5675	0	dBA
5592	0	dBA
5545	0	dBA
5493	0	dBA
4035	0	dBA
4107	0	dBA
4188	0	dBA
4278	0	dBA
4330	0	dBA
4411	0	dBA
4054	0	dBA
4120	0	dBA
4177	0	dBA
4253	0	dBA
4332	0	dBA
4420	0	dBA
4471	0	dBA
4549	0	dBA
4212	0	dBA
4287	0	dBA
4370	0	dBA
4451	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
7312	0	dBA
7357	0	dBA
7397	0	dBA
7272	0	dBA
6980	0	dBA
6869	0	dBA
6766	0	dBA
6681	0	dBA
6591	0	dBA
6509	0	dBA
6671	0	dBA
6574	0	dBA
6485	0	dBA
6391	0	dBA
6299	0	dBA
4996	0	dBA
4717	0	dBA
4898	0	dBA
5156	0	dBA
5033	0	dBA
4902	0	dBA
4781	0	dBA
4258	0	dBA
5968	0	dBA
5919	0	dBA
5851	0	dBA
6095	0	dBA
6009	0	dBA
5960	0	dBA
5906	0	dBA
4466	0	dBA
4539	0	dBA
4620	0	dBA
4709	0	dBA
4761	0	dBA
4841	0	dBA
4483	0	dBA
4550	0	dBA
4608	0	dBA
4684	0	dBA
4764	0	dBA
4851	0	dBA
4902	0	dBA
4980	0	dBA
4640	0	dBA
4716	0	dBA
4800	0	dBA
4882	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
7532	0	dBA
7578	0	dBA
7618	0	dBA
7495	0	dBA
7203	0	dBA
7091	0	dBA
6988	0	dBA
6902	0	dBA
6812	0	dBA
6730	0	dBA
6894	0	dBA
6797	0	dBA
6708	0	dBA
6614	0	dBA
6521	0	dBA
5217	0	dBA
4938	0	dBA
5121	0	dBA
5368	0	dBA
5246	0	dBA
5116	0	dBA
4996	0	dBA
4475	0	dBA
6181	0	dBA
6131	0	dBA
6061	0	dBA
6307	0	dBA
6219	0	dBA
6169	0	dBA
6112	0	dBA
4687	0	dBA
4760	0	dBA
4842	0	dBA
4932	0	dBA
4984	0	dBA
5063	0	dBA
4702	0	dBA
4770	0	dBA
4828	0	dBA
4906	0	dBA
4985	0	dBA
5073	0	dBA
5124	0	dBA
5202	0	dBA
4858	0	dBA
4935	0	dBA
5020	0	dBA
5102	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
7749	0	dBA
7798	0	dBA
7841	0	dBA
7729	0	dBA
7436	0	dBA
7322	0	dBA
7215	0	dBA
7126	0	dBA
7032	0	dBA
6946	0	dBA
7143	0	dBA
7043	0	dBA
6952	0	dBA
6855	0	dBA
6760	0	dBA
5486	0	dBA
5206	0	dBA
5384	0	dBA
5661	0	dBA
5537	0	dBA
5406	0	dBA
5284	0	dBA
4760	0	dBA
6363	0	dBA
6309	0	dBA
6233	0	dBA
6486	0	dBA
6391	0	dBA
6336	0	dBA
6274	0	dBA
4911	0	dBA
4989	0	dBA
5074	0	dBA
5169	0	dBA
5223	0	dBA
5306	0	dBA
4912	0	dBA
4985	0	dBA
5046	0	dBA
5128	0	dBA
5212	0	dBA
5304	0	dBA
5358	0	dBA
5439	0	dBA
5063	0	dBA
5145	0	dBA
5236	0	dBA
5323	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR036**

Point of Reception Description		
House 28		

X	Y	Z
365290	4905358	132.3

**Point of Reception ID**  
**POR037**

Point of Reception Description		
House 29		

X	Y	Z
365179	4904779	133.5

**Point of Reception ID**  
**POR038**

Point of Reception Description		
House 30		

X	Y	Z
364852	4904498	133.4

**Point of Reception ID**  
**POR039**

Point of Reception Description		
House 31		

X	Y	Z
364699	4904336	132.5

**Point of Reception ID**  
**POR040**

Point of Reception Description		
House 32		

X	Y	Z
364673	4904024	130.9

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
4097	0	dBA
4179	0	dBA
4253	0	dBA
3513	0	dBA
3581	0	dBA
3658	0	dBA
3706	0	dBA
3787	0	dBA
3494	0	dBA
3577	0	dBA
3688	0	dBA
3040	0	dBA
3114	0	dBA
3178	0	dBA
3268	0	dBA
1349	15	dBA
1448	8	dBA
1516	8	dBA
1595	7	dBA
1333	15	dBA
1419	8	dBA
1399	15	dBA
220	29	dBA
300	26	dBA
403	26	dBA
596	23	dBA
689	22	dBA
793	20	dBA
899	19	dBA
1004	11	dBA
1142	10	dBA
384	30	dBA
457	25	dBA
602	23	dBA
754	21	dBA
888	13	dBA
1103	11	dBA
597	26	dBA
643	22	dBA
715	21	dBA
804	20	dBA
924	19	dBA
1036	11	dBA
1155	10	dBA
419	29	dBA
287	26	dBA
348	28	dBA
5394	0	dBA
4474	0	dBA
4472	0	dBA
4475	0	dBA
4296	0	dBA
4293	0	dBA
4296	0	dBA
4117	0	dBA
4115	0	dBA
4118	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
4535	0	dBA
4627	0	dBA
4710	0	dBA
3966	0	dBA
4043	0	dBA
4129	0	dBA
4183	0	dBA
4273	0	dBA
3975	0	dBA
4066	0	dBA
4187	0	dBA
3512	0	dBA
3595	0	dBA
3667	0	dBA
3745	0	dBA
1909	12	dBA
2016	0	dBA
2091	0	dBA
2176	0	dBA
1914	12	dBA
2004	0	dBA
1989	11	dBA
564	21	dBA
712	19	dBA
841	23	dBA
1061	21	dBA
1158	20	dBA
1265	19	dBA
1373	19	dBA
1480	8	dBA
1620	7	dBA
598	26	dBA
760	24	dBA
959	22	dBA
1142	20	dBA
1294	14	dBA
1501	8	dBA
672	25	dBA
804	24	dBA
939	22	dBA
1075	21	dBA
1233	20	dBA
1370	13	dBA
1509	8	dBA
205	35	dBA
336	25	dBA
288	33	dBA
5860	0	dBA
4721	0	dBA
4718	0	dBA
4721	0	dBA
4548	0	dBA
4545	0	dBA
4547	0	dBA
4375	0	dBA
4372	0	dBA
4375	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
4966	0	dBA
5059	0	dBA
5141	0	dBA
4397	0	dBA
4474	0	dBA
4560	0	dBA
4613	0	dBA
4702	0	dBA
4404	0	dBA
4494	0	dBA
4614	0	dBA
3942	0	dBA
4024	0	dBA
4095	0	dBA
4174	0	dBA
2311	0	dBA
2412	0	dBA
2481	0	dBA
2558	0	dBA
2296	0	dBA
2378	0	dBA
2337	0	dBA
862	17	dBA
986	16	dBA
1097	21	dBA
1301	19	dBA
1390	19	dBA
1490	18	dBA
1591	17	dBA
1693	11	dBA
1827	6	dBA
816	23	dBA
963	22	dBA
1145	20	dBA
1321	19	dBA
1467	12	dBA
1651	11	dBA
769	24	dBA
907	22	dBA
1045	21	dBA
1184	20	dBA
1345	19	dBA
1485	12	dBA
1625	12	dBA
547	27	dBA
679	19	dBA
714	25	dBA
6291	0	dBA
5120	0	dBA
5117	0	dBA
5119	0	dBA
4948	0	dBA
4945	0	dBA
4948	0	dBA
4778	0	dBA
4775	0	dBA
4777	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5187	0	dBA
5281	0	dBA
5364	0	dBA
4619	0	dBA
4696	0	dBA
4782	0	dBA
4836	0	dBA
4925	0	dBA
4627	0	dBA
4717	0	dBA
4837	0	dBA
4165	0	dBA
4247	0	dBA
4318	0	dBA
4397	0	dBA
2529	0	dBA
2628	0	dBA
2695	0	dBA
2770	0	dBA
2508	0	dBA
2587	0	dBA
2539	0	dBA
1063	15	dBA
1178	14	dBA
1281	19	dBA
1475	18	dBA
1560	18	dBA
1655	17	dBA
1752	13	dBA
1850	10	dBA
1980	10	dBA
998	22	dBA
1134	20	dBA
1305	19	dBA
1473	18	dBA
1613	12	dBA
1784	11	dBA
917	22	dBA
1047	21	dBA
1179	20	dBA
1313	19	dBA
1470	18	dBA
1607	12	dBA
1745	11	dBA
765	24	dBA
894	17	dBA
937	22	dBA
6514	0	dBA
5318	0	dBA
5318	0	dBA
5148	0	dBA
5145	0	dBA
5148	0	dBA
4979	0	dBA
4976	0	dBA
4978	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
5512	0	dBA
5597	0	dBA
4853	0	dBA
4934	0	dBA
5024	0	dBA
5080	0	dBA
5172	0	dBA
4873	0	dBA
4967	0	dBA
5091	0	dBA
4408	0	dBA
4495	0	dBA
4568	0	dBA
4642	0	dBA
2812	0	dBA
2915	0	dBA
2985	0	dBA
3064	0	dBA
2802	0	dBA
2884	0	dBA
2843	0	dBA
1367	13	dBA
1486	12	dBA
1592	17	dBA
1788	16	dBA
1873	16	dBA
1968	15	dBA
2065	0	dBA
2163	0	dBA
2291	0	dBA
1309	19	dBA
1447	18	dBA
1618	17	dBA
1785	16	dBA
1924	10	dBA
2092	0	dBA
1229	20	dBA
1358	19	dBA
1489	18	dBA
1621	17	dBA
1776	16	dBA
1911	10	dBA
2048	0	dBA
1050	21	dBA
1185	14	dBA
1197	20	dBA
6749	0	dBA
5458	0	dBA
5455	0	dBA
5457	0	dBA
5292	0	dBA
5288	0	dBA
5291	0	dBA
5126	0	dBA
5123	0	dBA
5125	0	dBA



**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID  
**POR036**

Point of Reception ID  
**POR037**

Point of Reception ID  
**POR038**

Point of Reception ID  
**POR039**

Point of Reception ID  
**POR040**

Point of Reception Description  
 House 28

Point of Reception Description  
 House 29

Point of Reception Description  
 House 30

Point of Reception Description  
 House 31

Point of Reception Description  
 House 32

X	Y	Z
365290	4905358	132.3

X	Y	Z
365179	4904779	133.5

X	Y	Z
364852	4904498	133.4

X	Y	Z
364699	4904336	132.5

X	Y	Z
364673	4904024	130.9

Source ID <sup>(1)</sup>	Source Description
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
4307	0	dBA
4304	0	dBA
4306	0	dBA
4747	0	dBA
4744	0	dBA
4747	0	dBA
4605	0	dBA
4603	0	dBA
4605	0	dBA
4600	0	dBA
4597	0	dBA
4600	0	dBA
4459	0	dBA
4456	0	dBA
4459	0	dBA
4222	0	dBA
4220	0	dBA
4222	0	dBA
4444	0	dBA
4441	0	dBA
4444	0	dBA
4468	0	dBA
2382	0	dBA
2465	0	dBA
2533	0	dBA
2611	0	dBA
2676	0	dBA
2754	0	dBA
2818	0	dBA
2897	0	dBA
2960	0	dBA
3041	0	dBA
3104	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
4607	0	dBA
4604	0	dBA
4606	0	dBA
5031	0	dBA
5028	0	dBA
5031	0	dBA
4876	0	dBA
4873	0	dBA
4876	0	dBA
4889	0	dBA
4886	0	dBA
4889	0	dBA
4753	0	dBA
4750	0	dBA
4753	0	dBA
4503	0	dBA
4500	0	dBA
4502	0	dBA
4710	0	dBA
4707	0	dBA
4710	0	dBA
4701	0	dBA
2010	0	dBA
2056	0	dBA
2148	0	dBA
2196	0	dBA
2284	0	dBA
2334	0	dBA
2420	0	dBA
2473	0	dBA
2556	0	dBA
2613	0	dBA
2695	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
5020	0	dBA
5017	0	dBA
5019	0	dBA
5439	0	dBA
5436	0	dBA
5439	0	dBA
5281	0	dBA
5278	0	dBA
5281	0	dBA
5299	0	dBA
5296	0	dBA
5298	0	dBA
5164	0	dBA
5161	0	dBA
5164	0	dBA
4911	0	dBA
4908	0	dBA
4911	0	dBA
5114	0	dBA
5112	0	dBA
5114	0	dBA
5095	0	dBA
2098	0	dBA
2103	0	dBA
2218	0	dBA
2232	0	dBA
2341	0	dBA
2359	0	dBA
2466	0	dBA
2490	0	dBA
2593	0	dBA
2621	0	dBA
2723	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
5227	0	dBA
5224	0	dBA
5226	0	dBA
5644	0	dBA
5641	0	dBA
5643	0	dBA
5484	0	dBA
5481	0	dBA
5483	0	dBA
5504	0	dBA
5501	0	dBA
5503	0	dBA
5371	0	dBA
5368	0	dBA
5370	0	dBA
5116	0	dBA
5113	0	dBA
5115	0	dBA
5317	0	dBA
5314	0	dBA
5316	0	dBA
5292	0	dBA
2153	0	dBA
2138	0	dBA
2262	0	dBA
2259	0	dBA
2378	0	dBA
2380	0	dBA
2496	0	dBA
2504	0	dBA
2616	0	dBA
2630	0	dBA
2741	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
5391	0	dBA
5388	0	dBA
5390	0	dBA
5798	0	dBA
5795	0	dBA
5797	0	dBA
5633	0	dBA
5630	0	dBA
5632	0	dBA
5662	0	dBA
5659	0	dBA
5661	0	dBA
5532	0	dBA
5528	0	dBA
5530	0	dBA
5272	0	dBA
5269	0	dBA
5271	0	dBA
5465	0	dBA
5462	0	dBA
5464	0	dBA
5425	0	dBA
2061	0	dBA
2018	0	dBA
2153	0	dBA
2127	0	dBA
2256	0	dBA
2237	0	dBA
2363	0	dBA
2351	0	dBA
2474	0	dBA
2469	0	dBA
2590	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON



Point of Reception ID  
**POR041**

Point of Reception ID  
**POR042**

Point of Reception ID  
**POR043**

Point of Reception ID  
**POR044**

Point of Reception ID  
**POR045**

Point of Reception Description		
House 33		
X	Y	Z
364533	4904010	131.4

Point of Reception Description		
House 34		
X	Y	Z
364334	4903986	131.0

Point of Reception Description		
House 35		
X	Y	Z
364403	4904262	131.8

Point of Reception Description		
House 36		
X	Y	Z
364210	4904183	131.2

Point of Reception Description		
House 37		
X	Y	Z
364139	4904010	130.9

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
7866	0	dBA
7914	0	dBA
7956	0	dBA
7840	0	dBA
7547	0	dBA
7434	0	dBA
7329	0	dBA
7241	0	dBA
7148	0	dBA
7064	0	dBA
7247	0	dBA
7149	0	dBA
7059	0	dBA
6963	0	dBA
6869	0	dBA
5579	0	dBA
5300	0	dBA
5480	0	dBA
5735	0	dBA
5613	0	dBA
5483	0	dBA
5362	0	dBA
4841	0	dBA
6490	0	dBA
6437	0	dBA
6362	0	dBA
6614	0	dBA
6520	0	dBA
6466	0	dBA
6405	0	dBA
5026	0	dBA
5101	0	dBA
5185	0	dBA
5278	0	dBA
5331	0	dBA
5413	0	dBA
5031	0	dBA
5102	0	dBA
5163	0	dBA
5243	0	dBA
5326	0	dBA
5416	0	dBA
5468	0	dBA
5549	0	dBA
5184	0	dBA
5264	0	dBA
5353	0	dBA
5439	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
8035	0	dBA
8082	0	dBA
8123	0	dBA
8001	0	dBA
7708	0	dBA
7596	0	dBA
7493	0	dBA
7407	0	dBA
7316	0	dBA
7233	0	dBA
7399	0	dBA
7302	0	dBA
7213	0	dBA
7120	0	dBA
7027	0	dBA
5716	0	dBA
5438	0	dBA
5622	0	dBA
5846	0	dBA
5726	0	dBA
5598	0	dBA
5480	0	dBA
4963	0	dBA
6672	0	dBA
6620	0	dBA
6547	0	dBA
6797	0	dBA
6705	0	dBA
6652	0	dBA
6593	0	dBA
5192	0	dBA
5265	0	dBA
5347	0	dBA
5437	0	dBA
5489	0	dBA
5569	0	dBA
5204	0	dBA
5273	0	dBA
5332	0	dBA
5410	0	dBA
5490	0	dBA
5578	0	dBA
5629	0	dBA
5708	0	dBA
5358	0	dBA
5437	0	dBA
5523	0	dBA
5606	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
7812	0	dBA
7855	0	dBA
7894	0	dBA
7764	0	dBA
7472	0	dBA
7362	0	dBA
7262	0	dBA
7178	0	dBA
7090	0	dBA
7010	0	dBA
7151	0	dBA
7056	0	dBA
6970	0	dBA
6878	0	dBA
6788	0	dBA
5455	0	dBA
5180	0	dBA
5366	0	dBA
5570	0	dBA
5451	0	dBA
5324	0	dBA
5207	0	dBA
4692	0	dBA
6476	0	dBA
6427	0	dBA
6359	0	dBA
6603	0	dBA
6517	0	dBA
6467	0	dBA
6412	0	dBA
4964	0	dBA
5035	0	dBA
5114	0	dBA
5201	0	dBA
5251	0	dBA
5328	0	dBA
4987	0	dBA
5053	0	dBA
5109	0	dBA
5183	0	dBA
5260	0	dBA
5345	0	dBA
5395	0	dBA
5470	0	dBA
5145	0	dBA
5219	0	dBA
5302	0	dBA
5381	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
8013	0	dBA
8056	0	dBA
8094	0	dBA
7961	0	dBA
7669	0	dBA
7560	0	dBA
7461	0	dBA
7378	0	dBA
7291	0	dBA
7211	0	dBA
7342	0	dBA
7249	0	dBA
7163	0	dBA
7073	0	dBA
6984	0	dBA
5638	0	dBA
5364	0	dBA
5552	0	dBA
5733	0	dBA
5616	0	dBA
5491	0	dBA
5376	0	dBA
4865	0	dBA
6683	0	dBA
6634	0	dBA
6566	0	dBA
6810	0	dBA
6724	0	dBA
6675	0	dBA
6620	0	dBA
5165	0	dBA
5235	0	dBA
5312	0	dBA
5398	0	dBA
5447	0	dBA
5523	0	dBA
5190	0	dBA
5255	0	dBA
5310	0	dBA
5384	0	dBA
5460	0	dBA
5544	0	dBA
5592	0	dBA
5667	0	dBA
5349	0	dBA
5423	0	dBA
5504	0	dBA
5582	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
8174	0	dBA
8218	0	dBA
8257	0	dBA
8129	0	dBA
7836	0	dBA
7726	0	dBA
7626	0	dBA
7541	0	dBA
7453	0	dBA
7372	0	dBA
7516	0	dBA
7421	0	dBA
7334	0	dBA
7243	0	dBA
7153	0	dBA
5817	0	dBA
5542	0	dBA
5729	0	dBA
5918	0	dBA
5801	0	dBA
5675	0	dBA
5560	0	dBA
5048	0	dBA
6829	0	dBA
6778	0	dBA
6708	0	dBA
6955	0	dBA
6866	0	dBA
6815	0	dBA
6758	0	dBA
5327	0	dBA
5399	0	dBA
5478	0	dBA
5565	0	dBA
5615	0	dBA
5693	0	dBA
5347	0	dBA
5414	0	dBA
5471	0	dBA
5546	0	dBA
5624	0	dBA
5709	0	dBA
5759	0	dBA
5835	0	dBA
5504	0	dBA
5580	0	dBA
5664	0	dBA
5744	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON



Point of Reception ID <b>POR041</b>			Point of Reception ID <b>POR042</b>			Point of Reception ID <b>POR043</b>			Point of Reception ID <b>POR044</b>			Point of Reception ID <b>POR045</b>		
Point of Reception Description House 33			Point of Reception Description House 34			Point of Reception Description House 35			Point of Reception Description House 36			Point of Reception Description House 37		
X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
364533	4904010	131.4	364334	4903986	131.0	364403	4904262	131.8	364210	4904183	131.2	364139	4904010	130.9
Source ID <sup>(1)</sup>	Source Description		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
MVPP_P14A_U19	MVPP P14A_U19		5526	0	dBA	5692	0	dBA	5463	0	dBA	5663	0	dBA
MVPP_P14A_U20	MVPP P14A_U20		5623	0	dBA	5786	0	dBA	5554	0	dBA	5753	0	dBA
MVPP_P14A_U21	MVPP P14A_U21		5708	0	dBA	5869	0	dBA	5634	0	dBA	5832	0	dBA
MVPP_P14B_U1	MVPP P14B_U1		4963	0	dBA	5125	0	dBA	4890	0	dBA	5088	0	dBA
MVPP_P14B_U2	MVPP P14B_U2		5043	0	dBA	5202	0	dBA	4965	0	dBA	5162	0	dBA
MVPP_P14B_U3	MVPP P14B_U3		5131	0	dBA	5288	0	dBA	5048	0	dBA	5243	0	dBA
MVPP_P14B_U4	MVPP P14B_U4		5186	0	dBA	5341	0	dBA	5099	0	dBA	5294	0	dBA
MVPP_P14B_U5	MVPP P14B_U5		5277	0	dBA	5430	0	dBA	5185	0	dBA	5379	0	dBA
MVPP_P14B_U6	MVPP P14B_U6		4978	0	dBA	5132	0	dBA	4889	0	dBA	5083	0	dBA
MVPP_P14B_U7	MVPP P14B_U7		5070	0	dBA	5222	0	dBA	4976	0	dBA	5169	0	dBA
MVPP_P14B_U8	MVPP P14B_U8		5192	0	dBA	5341	0	dBA	5092	0	dBA	5283	0	dBA
MVPP_P14C_U1	MVPP P14C_U1		4515	0	dBA	4671	0	dBA	4430	0	dBA	4625	0	dBA
MVPP_P14C_U2	MVPP P14C_U2		4599	0	dBA	4753	0	dBA	4509	0	dBA	4703	0	dBA
MVPP_P14C_U3	MVPP P14C_U3		4671	0	dBA	4823	0	dBA	4577	0	dBA	4770	0	dBA
MVPP_P14C_U4	MVPP P14C_U4		4748	0	dBA	4903	0	dBA	4661	0	dBA	4855	0	dBA
MVPP_P19_20_U1	MVPP P19/20_U1		2895	0	dBA	3021	0	dBA	2755	0	dBA	2935	0	dBA
MVPP_P19_U1	MVPP P19_U1		2994	0	dBA	3116	0	dBA	2848	0	dBA	3023	0	dBA
MVPP_P19_U2	MVPP P19_U2		3061	0	dBA	3178	0	dBA	2907	0	dBA	3079	0	dBA
MVPP_P19_U3	MVPP P19_U3		3137	0	dBA	3249	0	dBA	2975	0	dBA	3144	0	dBA
MVPP_P19_U4	MVPP P19_U4		2874	0	dBA	2988	0	dBA	2714	0	dBA	2884	0	dBA
MVPP_P19_U5	MVPP P19_U5		2953	0	dBA	3061	0	dBA	2785	0	dBA	2951	0	dBA
MVPP_P20_U1	MVPP P20_U1		2902	0	dBA	2997	0	dBA	2717	0	dBA	2872	0	dBA
MVPP_P21_U1	MVPP P21_U1		1428	13	dBA	1535	12	dBA	1262	14	dBA	1437	13	dBA
MVPP_P21_U2	MVPP P21_U2		1538	12	dBA	1633	11	dBA	1354	13	dBA	1518	12	dBA
MVPP_P21_U3	MVPP P21_U3		1638	17	dBA	1722	17	dBA	1441	18	dBA	1595	17	dBA
MVPP_P21_U4	MVPP P21_U4		1824	16	dBA	1896	16	dBA	1612	17	dBA	1753	16	dBA
MVPP_P21_U5	MVPP P21_U5		1906	16	dBA	1971	15	dBA	1687	17	dBA	1822	16	dBA
MVPP_P21_U6	MVPP P21_U6		1997	15	dBA	2057	0	dBA	1773	16	dBA	1902	16	dBA
MVPP_P21_U7	MVPP P21_U7		2091	0	dBA	2145	0	dBA	1861	16	dBA	1984	15	dBA
MVPP_P21_U8	MVPP P21_U8		2185	0	dBA	2235	0	dBA	1951	10	dBA	2068	0	dBA
MVPP_P21_U9	MVPP P21_U9		2310	0	dBA	2353	0	dBA	2071	0	dBA	2181	0	dBA
MVPP_P22_U1	MVPP P22_U1		1356	19	dBA	1445	18	dBA	1166	20	dBA	1328	19	dBA
MVPP_P22_U2	MVPP P22_U2		1485	18	dBA	1561	17	dBA	1278	19	dBA	1427	18	dBA
MVPP_P22_U3	MVPP P22_U3		1645	17	dBA	1707	17	dBA	1423	18	dBA	1556	18	dBA
MVPP_P22_U4	MVPP P22_U4		1806	16	dBA	1857	16	dBA	1573	17	dBA	1694	17	dBA
MVPP_P22_U5	MVPP P22_U5		1941	10	dBA	1984	10	dBA	1701	11	dBA	1814	11	dBA
MVPP_P22_U6	MVPP P22_U6		2098	0	dBA	2126	0	dBA	1847	10	dBA	1943	5	dBA
MVPP_P23_U1	MVPP P23_U1		1255	20	dBA	1319	19	dBA	1035	21	dBA	1178	20	dBA
MVPP_P23_U2	MVPP P23_U2		1377	19	dBA	1431	18	dBA	1146	20	dBA	1276	19	dBA
MVPP_P23_U3	MVPP P23_U3		1502	18	dBA	1546	18	dBA	1263	19	dBA	1382	19	dBA
MVPP_P23_U4	MVPP P23_U4		1630	17	dBA	1666	17	dBA	1384	19	dBA	1493	18	dBA
MVPP_P23_U5	MVPP P23_U5		1780	16	dBA	1808	16	dBA	1528	18	dBA	1627	13	dBA
MVPP_P23_U6	MVPP P23_U6		1912	10	dBA	1934	6	dBA	1656	7	dBA	1748	6	dBA
MVPP_P23_U7	MVPP P23_U7		2046	0	dBA	2063	0	dBA	1787	6	dBA	1872	6	dBA
MVPP_P24_U1	MVPP P24_U1		1130	20	dBA	1263	19	dBA	1011	21	dBA	1206	20	dBA
MVPP_P24_U2	MVPP P24_U2		1260	14	dBA	1386	13	dBA	1127	15	dBA	1316	13	dBA
MVPP_P24_U3	MVPP P24_U3		1292	19	dBA	1442	18	dBA	1206	20	dBA	1407	18	dBA
TS	Transformer Station		6859	0	dBA	7019	0	dBA	6782	0	dBA	6979	0	dBA
WB_H1T	Hut 1 Transformer		5593	0	dBA	5785	0	dBA	5622	0	dBA	5830	0	dBA
WB_H1I1	Hut 1 Inverter 1		5590	0	dBA	5782	0	dBA	5619	0	dBA	5827	0	dBA
WB_H1I2	Hut 1 Inverter 2		5592	0	dBA	5785	0	dBA	5621	0	dBA	5829	0	dBA
WB_H2T	Hut 2 Transformer		5426	0	dBA	5617	0	dBA	5451	0	dBA	5659	0	dBA
WB_H2I1	Hut 2 Inverter 1		5423	0	dBA	5614	0	dBA	5449	0	dBA	5656	0	dBA
WB_H2I2	Hut 2 Inverter 2		5425	0	dBA	5617	0	dBA	5451	0	dBA	5659	0	dBA
WB_H3T	Hut 3 Transformer		5260	0	dBA	5451	0	dBA	5282	0	dBA	5490	0	dBA
WB_H3I1	Hut 3 Inverter 1		5257	0	dBA	5448	0	dBA	5279	0	dBA	5487	0	dBA
WB_H3I2	Hut 3 Inverter 2		5259	0	dBA	5450	0	dBA	5281	0	dBA	5489	0	dBA



**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON



Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR041</b>			Point of Reception ID <b>POR042</b>			Point of Reception ID <b>POR043</b>			Point of Reception ID <b>POR044</b>			Point of Reception ID <b>POR045</b>			
		Point of Reception Description House 33			Point of Reception Description House 34			Point of Reception Description House 35			Point of Reception Description House 36			Point of Reception Description House 37			
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
		364533	4904010	131.4	364334	4903986	131.0	364403	4904262	131.8	364210	4904183	131.2	364139	4904010	130.9	
Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
WB_H4T	Hut 4 Transformer	5522	0	dBA	5709	0	dBA	5524	0	dBA	5735	0	dBA	5873	0	dBA	
WB_H4I1	Hut 4 Inverter 1	5519	0	dBA	5706	0	dBA	5524	0	dBA	5732	0	dBA	5870	0	dBA	
WB_H4I2	Hut 4 Inverter 2	5521	0	dBA	5708	0	dBA	5526	0	dBA	5734	0	dBA	5872	0	dBA	
WB_H5T	Hut 5 Transformer	5931	0	dBA	6120	0	dBA	5945	0	dBA	6153	0	dBA	6287	0	dBA	
WB_H5I1	Hut 5 Inverter 1	5927	0	dBA	6117	0	dBA	5942	0	dBA	6150	0	dBA	6284	0	dBA	
WB_H5I2	Hut 5 Inverter 2	5930	0	dBA	6119	0	dBA	5944	0	dBA	6152	0	dBA	6286	0	dBA	
WB_H6T	Hut 6 Transformer	5767	0	dBA	5957	0	dBA	5786	0	dBA	5994	0	dBA	6126	0	dBA	
WB_H6I1	Hut 6 Inverter 1	5763	0	dBA	5954	0	dBA	5783	0	dBA	5991	0	dBA	6123	0	dBA	
WB_H6I2	Hut 6 Inverter 2	5766	0	dBA	5956	0	dBA	5785	0	dBA	5994	0	dBA	6125	0	dBA	
WB_H7T	Hut 7 Transformer	5794	0	dBA	5982	0	dBA	5805	0	dBA	6013	0	dBA	6149	0	dBA	
WB_H7I1	Hut 7 Inverter 1	5790	0	dBA	5979	0	dBA	5802	0	dBA	6010	0	dBA	6145	0	dBA	
WB_H7I2	Hut 7 Inverter 2	5793	0	dBA	5981	0	dBA	5804	0	dBA	6012	0	dBA	6148	0	dBA	
WB_H8T	Hut 8 Transformer	5663	0	dBA	5851	0	dBA	5671	0	dBA	5879	0	dBA	6016	0	dBA	
WB_H8I1	Hut 8 Inverter 1	5659	0	dBA	5847	0	dBA	5668	0	dBA	5876	0	dBA	6013	0	dBA	
WB_H8I2	Hut 8 Inverter 2	5662	0	dBA	5850	0	dBA	5670	0	dBA	5878	0	dBA	6015	0	dBA	
WB_H9T	Hut 9 Transformer	5404	0	dBA	5593	0	dBA	5417	0	dBA	5625	0	dBA	5760	0	dBA	
WB_H9I1	Hut 9 Inverter 1	5401	0	dBA	5590	0	dBA	5414	0	dBA	5622	0	dBA	5757	0	dBA	
WB_H9I2	Hut 9 Inverter 2	5403	0	dBA	5592	0	dBA	5416	0	dBA	5624	0	dBA	5759	0	dBA	
WB_H10T	Hut 10 Transformer	5599	0	dBA	5789	0	dBA	5619	0	dBA	5827	0	dBA	5958	0	dBA	
WB_H10I1	Hut 10 Inverter 1	5595	0	dBA	5786	0	dBA	5616	0	dBA	5824	0	dBA	5955	0	dBA	
WB_H10I2	Hut 10 Inverter 2	5598	0	dBA	5789	0	dBA	5618	0	dBA	5826	0	dBA	5958	0	dBA	
WB_ST	Substation Transformer	5561	0	dBA	5754	0	dBA	5596	0	dBA	5804	0	dBA	5928	0	dBA	
KGH2_Sub	44-kV/10-MVA Substation transformer	2190	0	dBA	2375	0	dBA	2395	0	dBA	2549	0	dBA	2570	0	dBA	
KGH2_Inv01	Sunny Central 1000MV inverter unit	2142	0	dBA	2320	0	dBA	2363	0	dBA	2505	0	dBA	2512	0	dBA	
KGH2_Inv02	Sunny Central 1000MV inverter unit	2279	0	dBA	2459	0	dBA	2494	0	dBA	2641	0	dBA	2652	0	dBA	
KGH2_Inv03	Sunny Central 1000MV inverter unit	2248	0	dBA	2421	0	dBA	2476	0	dBA	2613	0	dBA	2612	0	dBA	
KGH2_Inv04	Sunny Central 1000MV inverter unit	2379	0	dBA	2555	0	dBA	2602	0	dBA	2743	0	dBA	2747	0	dBA	
KGH2_Inv05	Sunny Central 1000MV inverter unit	2354	0	dBA	2524	0	dBA	2589	0	dBA	2720	0	dBA	2712	0	dBA	
KGH2_Inv06	Sunny Central 1000MV inverter unit	2483	0	dBA	2656	0	dBA	2713	0	dBA	2849	0	dBA	2846	0	dBA	
KGH2_Inv07	Sunny Central 1000MV inverter unit	2466	0	dBA	2631	0	dBA	2705	0	dBA	2831	0	dBA	2817	0	dBA	
KGH2_Inv08	Sunny Central 1000MV inverter unit	2591	0	dBA	2759	0	dBA	2826	0	dBA	2957	0	dBA	2947	0	dBA	
KGH2_Inv09	Sunny Central 1000MV inverter unit	2580	0	dBA	2741	0	dBA	2825	0	dBA	2946	0	dBA	2925	0	dBA	
KGH2_Inv10	Sunny Central 1000MV inverter unit	2704	0	dBA	2869	0	dBA	2944	0	dBA	3070	0	dBA	3054	0	dBA	

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR046**

**Point of Reception ID**  
**POR047**

**Point of Reception ID**  
**POR048**

**Point of Reception ID**  
**POR049**

Point of Reception Description		
House 38		
X	Y	Z
366749	4907702	138.1

Point of Reception Description		
Vacant Lot Receptor 09		
X	Y	Z
366794	4907844	141.5

Point of Reception Description		
Vacant Lot Receptor 10		
X	Y	Z
366917	4907844	141.5

Point of Reception Description		
House 39		
X	Y	Z
366878	4907989	138.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2/U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(5)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
4081	0	dBA
4081	0	dBA
4085	0	dBA
3859	0	dBA
3582	0	dBA
3507	0	dBA
3451	0	dBA
3410	0	dBA
3372	0	dBA
3343	0	dBA
3127	0	dBA
3059	0	dBA
3001	0	dBA
2943	0	dBA
2891	0	dBA
1334	13	dBA
1091	15	dBA
1305	13	dBA
1488	18	dBA
1354	19	dBA
1211	20	dBA
1079	21	dBA
544	21	dBA
3340	0	dBA
3356	0	dBA
3385	0	dBA
3484	0	dBA
3514	0	dBA
3537	0	dBA
3569	0	dBA
1604	17	dBA
1576	17	dBA
1555	12	dBA
1544	12	dBA
1543	12	dBA
1549	12	dBA
1858	16	dBA
1819	16	dBA
1791	16	dBA
1763	16	dBA
1745	11	dBA
1735	11	dBA
1735	11	dBA
1741	11	dBA
2029	0	dBA
1988	15	dBA
1955	15	dBA
1933	10	dBA

Distance (m)	Sound Level at PoR <sup>(5)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
3995	0	dBA
3992	0	dBA
3992	0	dBA
3757	0	dBA
3482	0	dBA
3412	0	dBA
3361	0	dBA
3325	0	dBA
3292	0	dBA
3268	0	dBA
3014	0	dBA
2950	0	dBA
2895	0	dBA
2842	0	dBA
2795	0	dBA
1212	14	dBA
983	16	dBA
1201	14	dBA
1340	20	dBA
1206	21	dBA
1062	22	dBA
931	23	dBA
395	23	dBA
3312	0	dBA
3332	0	dBA
3368	0	dBA
3455	0	dBA
3493	0	dBA
3521	0	dBA
3559	0	dBA
1601	18	dBA
1562	18	dBA
1528	12	dBA
1504	12	dBA
1496	12	dBA
1492	12	dBA
1868	16	dBA
1819	17	dBA
1784	17	dBA
1746	17	dBA
1716	11	dBA
1695	11	dBA
1688	11	dBA
1685	11	dBA
2033	0	dBA
1983	16	dBA
1938	16	dBA
1906	10	dBA

Distance (m)	Sound Level at PoR <sup>(5)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
3877	0	dBA
3875	0	dBA
3877	0	dBA
3646	0	dBA
3370	0	dBA
3297	0	dBA
3245	0	dBA
3207	0	dBA
3173	0	dBA
3147	0	dBA
2909	0	dBA
2842	0	dBA
2786	0	dBA
2730	0	dBA
2681	0	dBA
1113	15	dBA
874	17	dBA
1090	15	dBA
1321	20	dBA
1184	21	dBA
1037	22	dBA
901	23	dBA
370	24	dBA
3190	0	dBA
3211	0	dBA
3248	0	dBA
3333	0	dBA
3372	0	dBA
3401	0	dBA
3440	0	dBA
1485	19	dBA
1443	19	dBA
1407	13	dBA
1381	13	dBA
1373	13	dBA
1369	13	dBA
1755	17	dBA
1704	17	dBA
1667	18	dBA
1626	18	dBA
1595	12	dBA
1572	12	dBA
1565	12	dBA
1562	12	dBA
1919	16	dBA
1865	16	dBA
1818	17	dBA
1784	11	dBA

Distance (m)	Sound Level at PoR <sup>(5)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
3875	0	dBA
3867	0	dBA
3865	0	dBA
3621	0	dBA
3350	0	dBA
3283	0	dBA
3238	0	dBA
3206	0	dBA
3179	0	dBA
3160	0	dBA
2868	0	dBA
2808	0	dBA
2757	0	dBA
2709	0	dBA
2666	0	dBA
1062	15	dBA
849	17	dBA
1068	15	dBA
1182	20	dBA
1046	21	dBA
901	23	dBA
767	24	dBA
231	28	dBA
3253	0	dBA
3278	0	dBA
3321	0	dBA
3395	0	dBA
3442	0	dBA
3475	0	dBA
3519	0	dBA
1577	17	dBA
1526	18	dBA
1480	12	dBA
1441	13	dBA
1425	13	dBA
1408	13	dBA
1857	16	dBA
1798	16	dBA
1755	16	dBA
1705	17	dBA
1664	11	dBA
1630	11	dBA
1616	12	dBA
1602	12	dBA
2015	0	dBA
1953	15	dBA
1897	16	dBA
1853	10	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON



**Point of Reception ID**  
**POR046**

**Point of Reception Description**  
 House 38

X	Y	Z
366749	4907702	138.1

**Point of Reception ID**  
**POR047**

**Point of Reception Description**  
 Vacant Lot Receptor 09

X	Y	Z
366794	4907844	141.5

**Point of Reception ID**  
**POR048**

**Point of Reception Description**  
 Vacant Lot Receptor 10

X	Y	Z
366917	4907844	141.5

**Point of Reception ID**  
**POR049**

**Point of Reception Description**  
 House 39

X	Y	Z
366878	4907989	138.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1921	10	dBA
1919	10	dBA
1927	10	dBA
1390	19	dBA
1368	19	dBA
1356	13	dBA
1354	13	dBA
1362	13	dBA
1175	14	dBA
1172	14	dBA
1189	14	dBA
990	22	dBA
942	22	dBA
910	22	dBA
1059	21	dBA
1412	18	dBA
1316	13	dBA
1263	14	dBA
1213	14	dBA
1463	18	dBA
1416	13	dBA
1561	17	dBA
2903	0	dBA
2827	0	dBA
2767	0	dBA
2662	0	dBA
2626	0	dBA
2590	0	dBA
2558	0	dBA
2531	0	dBA
2502	0	dBA
3016	0	dBA
2941	0	dBA
2867	0	dBA
2800	0	dBA
2754	0	dBA
2774	0	dBA
3192	0	dBA
3130	0	dBA
3075	0	dBA
3025	0	dBA
2974	0	dBA
2936	0	dBA
2902	0	dBA
3176	0	dBA
3047	0	dBA
3032	0	dBA
2912	0	dBA
3311	0	dBA
3312	0	dBA
3314	0	dBA
3150	0	dBA
3152	0	dBA
3154	0	dBA
2993	0	dBA
2994	0	dBA
2996	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1883	10	dBA
1870	10	dBA
1869	10	dBA
1380	19	dBA
1346	20	dBA
1320	13	dBA
1309	13	dBA
1304	14	dBA
1145	15	dBA
1126	15	dBA
1123	15	dBA
1021	22	dBA
956	23	dBA
909	23	dBA
1057	22	dBA
1557	18	dBA
1459	13	dBA
1403	13	dBA
1348	13	dBA
1601	18	dBA
1549	12	dBA
1686	17	dBA
3045	0	dBA
2967	0	dBA
2905	0	dBA
2795	0	dBA
2757	0	dBA
2719	0	dBA
2684	0	dBA
2653	0	dBA
2619	0	dBA
3157	0	dBA
3078	0	dBA
3001	0	dBA
2930	0	dBA
2880	0	dBA
2894	0	dBA
3330	0	dBA
3266	0	dBA
3209	0	dBA
3155	0	dBA
3100	0	dBA
3059	0	dBA
3022	0	dBA
3322	0	dBA
3192	0	dBA
3178	0	dBA
2820	0	dBA
3339	0	dBA
3341	0	dBA
3343	0	dBA
3183	0	dBA
3184	0	dBA
3187	0	dBA
3030	0	dBA
3031	0	dBA
3033	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1761	11	dBA
1747	11	dBA
1746	11	dBA
1263	20	dBA
1225	20	dBA
1197	14	dBA
1186	14	dBA
1180	14	dBA
1024	16	dBA
1003	16	dBA
1000	16	dBA
920	23	dBA
849	24	dBA
796	24	dBA
942	23	dBA
1622	18	dBA
1530	12	dBA
1480	12	dBA
1432	13	dBA
1681	17	dBA
1635	11	dBA
1781	0	dBA
3117	0	dBA
3043	0	dBA
2985	0	dBA
2881	0	dBA
2846	0	dBA
2810	0	dBA
2779	0	dBA
2751	0	dBA
2720	0	dBA
3232	0	dBA
3158	0	dBA
3086	0	dBA
3020	0	dBA
2974	0	dBA
2993	0	dBA
3409	0	dBA
3349	0	dBA
3294	0	dBA
3245	0	dBA
3194	0	dBA
3155	0	dBA
3122	0	dBA
3385	0	dBA
3258	0	dBA
3236	0	dBA
2704	0	dBA
3233	0	dBA
3234	0	dBA
3237	0	dBA
3079	0	dBA
3080	0	dBA
3082	0	dBA
2928	0	dBA
2929	0	dBA
2931	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1819	11	dBA
1794	11	dBA
1783	11	dBA
1352	19	dBA
1304	19	dBA
1262	14	dBA
1243	14	dBA
1222	14	dBA
1098	15	dBA
1060	15	dBA
1035	15	dBA
1044	21	dBA
964	22	dBA
902	23	dBA
1043	21	dBA
1725	17	dBA
1627	12	dBA
1569	12	dBA
1513	12	dBA
1767	16	dBA
1713	11	dBA
1846	16	dBA
3213	0	dBA
3134	0	dBA
3071	0	dBA
2959	0	dBA
2920	0	dBA
2880	0	dBA
2843	0	dBA
2810	0	dBA
2773	0	dBA
3323	0	dBA
3244	0	dBA
3165	0	dBA
3092	0	dBA
3039	0	dBA
3049	0	dBA
3496	0	dBA
3431	0	dBA
3372	0	dBA
3317	0	dBA
3260	0	dBA
3216	0	dBA
3176	0	dBA
3489	0	dBA
3360	0	dBA
3346	0	dBA
2694	0	dBA
3343	0	dBA
3345	0	dBA
3347	0	dBA
3192	0	dBA
3194	0	dBA
3196	0	dBA
3044	0	dBA
3046	0	dBA
3048	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON



Point of Reception ID  
**POR046**

Point of Reception Description  
 House 38

X	Y	Z
366749	4907702	138.1

Source ID <sup>(1)</sup>	Source Description
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit

Point of Reception ID  
**POR047**

Point of Reception Description  
 Vacant Lot Receptor 09

X	Y	Z
366794	4907844	141.5

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2895	0	dBA
2895	0	dBA
2897	0	dBA
3321	0	dBA
3321	0	dBA
3324	0	dBA
3281	0	dBA
3282	0	dBA
3284	0	dBA
3178	0	dBA
3178	0	dBA
3181	0	dBA
3041	0	dBA
3042	0	dBA
3044	0	dBA
2942	0	dBA
2943	0	dBA
2945	0	dBA
3181	0	dBA
3182	0	dBA
3185	0	dBA
3381	0	dBA
4311	0	dBA
4481	0	dBA
4463	0	dBA
4614	0	dBA
4597	0	dBA
4745	0	dBA
4730	0	dBA
4877	0	dBA
4864	0	dBA
5010	0	dBA
4999	0	dBA

Point of Reception ID  
**POR047**

Point of Reception Description  
 Vacant Lot Receptor 09

X	Y	Z
366794	4907844	141.5

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2912	0	dBA
2913	0	dBA
2915	0	dBA
3330	0	dBA
3330	0	dBA
3333	0	dBA
3299	0	dBA
3300	0	dBA
3302	0	dBA
3189	0	dBA
3190	0	dBA
3192	0	dBA
3055	0	dBA
3056	0	dBA
3058	0	dBA
2968	0	dBA
2969	0	dBA
2972	0	dBA
3205	0	dBA
3206	0	dBA
3208	0	dBA
3414	0	dBA
4455	0	dBA
4625	0	dBA
4606	0	dBA
4757	0	dBA
4739	0	dBA
4888	0	dBA
4872	0	dBA
5020	0	dBA
5005	0	dBA
5152	0	dBA
5140	0	dBA

Point of Reception ID  
**POR048**

Point of Reception Description  
 Vacant Lot Receptor 10

X	Y	Z
366917	4907844	141.5

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2801	0	dBA
2802	0	dBA
2804	0	dBA
3216	0	dBA
3217	0	dBA
3219	0	dBA
3188	0	dBA
3189	0	dBA
3191	0	dBA
3076	0	dBA
3077	0	dBA
3080	0	dBA
2943	0	dBA
2944	0	dBA
2947	0	dBA
2861	0	dBA
2863	0	dBA
2865	0	dBA
3097	0	dBA
3098	0	dBA
3100	0	dBA
3309	0	dBA
4461	0	dBA
4634	0	dBA
4611	0	dBA
4764	0	dBA
4742	0	dBA
4894	0	dBA
4873	0	dBA
5024	0	dBA
5005	0	dBA
5154	0	dBA
5139	0	dBA

Point of Reception ID  
**POR049**

Point of Reception Description  
 House 39

X	Y	Z
366878	4907989	138.5

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2904	0	dBA
2905	0	dBA
2907	0	dBA
3311	0	dBA
3312	0	dBA
3315	0	dBA
3290	0	dBA
3291	0	dBA
3293	0	dBA
3174	0	dBA
3175	0	dBA
3177	0	dBA
3044	0	dBA
3045	0	dBA
3047	0	dBA
2971	0	dBA
2972	0	dBA
2975	0	dBA
3204	0	dBA
3205	0	dBA
3207	0	dBA
3422	0	dBA
4603	0	dBA
4776	0	dBA
4754	0	dBA
4907	0	dBA
4886	0	dBA
5037	0	dBA
5018	0	dBA
5167	0	dBA
5150	0	dBA
5299	0	dBA
5284	0	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
<b>POR050</b>	<b>POR051</b>	<b>POR052</b>	<b>POR053</b>	<b>POR054</b>
<b>Point of Reception Description</b> Vacant Lot Receptor 11	<b>Point of Reception Description</b> House 40	<b>Point of Reception Description</b> Vacant Lot Receptor 12	<b>Point of Reception Description</b> House 41	<b>Point of Reception Description</b> Vacant Lot Receptor 13
<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>
X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>
366765 4908063 139.5	366607 4908072 135.3	366663 4908145 139.6	366624 4908373 139.6	366705 4908451 144.3

Source ID <sup>[1]</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_1_U1	MVPP P2/1_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U1	MVPP P11A_U1
MVPP_P11A_U2	MVPP P11A_U2
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR	Units <sup>[2]</sup>
3966	0	dB(A)
3955	0	dB(A)
3949	0	dB(A)
3697	0	dB(A)
3429	0	dB(A)
3367	0	dB(A)
3326	0	dB(A)
3299	0	dB(A)
3276	0	dB(A)
3261	0	dB(A)
2932	0	dB(A)
2877	0	dB(A)
2831	0	dB(A)
2788	0	dB(A)
2751	0	dB(A)
1126	15	dB(A)
937	16	dB(A)
1155	15	dB(A)
1133	21	dB(A)
1001	22	dB(A)
862	24	dB(A)
736	25	dB(A)
559	28	dB(A)
375	31	dB(A)
226	28	dB(A)
3378	0	dB(A)
3405	0	dB(A)
3450	0	dB(A)
3520	0	dB(A)
3570	0	dB(A)
3605	0	dB(A)
3650	0	dB(A)
1711	17	dB(A)
1659	18	dB(A)
1610	12	dB(A)
1568	12	dB(A)
1548	12	dB(A)
1527	12	dB(A)
1992	16	dB(A)
1933	16	dB(A)
1888	16	dB(A)
1836	17	dB(A)
1793	11	dB(A)
1755	11	dB(A)
1738	11	dB(A)
1720	11	dB(A)
2149	0	dB(A)
2087	0	dB(A)
2028	0	dB(A)
1982	10	dB(A)

Distance (m)	Sound Level at PoR	Units <sup>[2]</sup>
4118	0	dB(A)
4106	0	dB(A)
4098	0	dB(A)
3842	0	dB(A)
3576	0	dB(A)
3516	0	dB(A)
3478	0	dB(A)
3452	0	dB(A)
3431	0	dB(A)
3417	0	dB(A)
3070	0	dB(A)
3018	0	dB(A)
2975	0	dB(A)
2935	0	dB(A)
2901	0	dB(A)
1268	9	dB(A)
1090	11	dB(A)
1307	9	dB(A)
1176	17	dB(A)
1052	18	dB(A)
923	22	dB(A)
809	23	dB(A)
614	26	dB(A)
460	29	dB(A)
356	25	dB(A)
3535	0	dB(A)
3561	0	dB(A)
3605	0	dB(A)
3677	0	dB(A)
3725	0	dB(A)
3759	0	dB(A)
3803	0	dB(A)
1859	12	dB(A)
1809	12	dB(A)
1764	6	dB(A)
1724	7	dB(A)
1706	7	dB(A)
1685	7	dB(A)
2135	0	dB(A)
2080	0	dB(A)
2037	0	dB(A)
1989	11	dB(A)
1947	5	dB(A)
1912	6	dB(A)
1896	6	dB(A)
1878	6	dB(A)
2295	0	dB(A)
2236	0	dB(A)
2181	0	dB(A)
2137	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
4048	0	dB(A)
4033	0	dB(A)
4024	0	dB(A)
3764	0	dB(A)
3500	0	dB(A)
3442	0	dB(A)
3406	0	dB(A)
3383	0	dB(A)
3364	0	dB(A)
3353	0	dB(A)
2988	0	dB(A)
2938	0	dB(A)
2897	0	dB(A)
2859	0	dB(A)
2827	0	dB(A)
1189	14	dB(A)
1023	16	dB(A)
1239	14	dB(A)
1088	22	dB(A)
962	23	dB(A)
832	24	dB(A)
717	25	dB(A)
523	28	dB(A)
368	31	dB(A)
279	26	dB(A)
3495	0	dB(A)
3523	0	dB(A)
3571	0	dB(A)
3636	0	dB(A)
3689	0	dB(A)
3725	0	dB(A)
3772	0	dB(A)
1838	17	dB(A)
1784	17	dB(A)
1732	11	dB(A)
1686	11	dB(A)
1664	11	dB(A)
1638	12	dB(A)
2120	0	dB(A)
2060	0	dB(A)
2014	0	dB(A)
1960	16	dB(A)
1913	10	dB(A)
1872	10	dB(A)
1853	10	dB(A)
1830	11	dB(A)
2277	0	dB(A)
2212	0	dB(A)
2151	0	dB(A)
2102	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
4045	0	dB(A)
4023	0	dB(A)
4007	0	dB(A)
3730	0	dB(A)
3475	0	dB(A)
3426	0	dB(A)
3401	0	dB(A)
3387	0	dB(A)
3379	0	dB(A)
3377	0	dB(A)
2936	0	dB(A)
2896	0	dB(A)
2865	0	dB(A)
2838	0	dB(A)
2817	0	dB(A)
1172	10	dB(A)
1058	11	dB(A)
1262	9	dB(A)
898	19	dB(A)
782	20	dB(A)
668	22	dB(A)
577	27	dB(A)
372	30	dB(A)
304	32	dB(A)
348	25	dB(A)
3589	0	dB(A)
3624	0	dB(A)
3680	0	dB(A)
3728	0	dB(A)
3792	0	dB(A)
3834	0	dB(A)
3888	0	dB(A)
1984	15	dB(A)
1920	16	dB(A)
1856	10	dB(A)
1795	11	dB(A)
1764	11	dB(A)
1724	11	dB(A)
2274	0	dB(A)
2206	0	dB(A)
2152	0	dB(A)
2088	0	dB(A)
2030	0	dB(A)
1974	10	dB(A)
1947	10	dB(A)
1911	10	dB(A)
2423	0	dB(A)
2349	0	dB(A)
2277	0	dB(A)
2216	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
3953	0	dB(A)
3928	0	dB(A)
3911	0	dB(A)
3630	0	dB(A)
3377	0	dB(A)
3331	0	dB(A)
3308	0	dB(A)
3297	0	dB(A)
3292	0	dB(A)
3294	0	dB(A)
2832	0	dB(A)
2795	0	dB(A)
2766	0	dB(A)
2742	0	dB(A)
2724	0	dB(A)
1082	15	dB(A)
988	16	dB(A)
1185	14	dB(A)
790	24	dB(A)
672	26	dB(A)
555	28	dB(A)
465	29	dB(A)
260	34	dB(A)
226	35	dB(A)
329	25	dB(A)
3533	0	dB(A)
3571	0	dB(A)
3631	0	dB(A)
3671	0	dB(A)
3740	0	dB(A)
3785	0	dB(A)
3842	0	dB(A)
1959	16	dB(A)
1889	16	dB(A)
1819	11	dB(A)
1750	11	dB(A)
1715	11	dB(A)
1668	11	dB(A)
2253	0	dB(A)
2180	0	dB(A)
2122	0	dB(A)
2052	0	dB(A)
1988	10	dB(A)
1926	10	dB(A)
1895	10	dB(A)
1853	10	dB(A)
2396	0	dB(A)
2317	0	dB(A)
2239	0	dB(A)
2172	0	dB(A)

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR050**

Point of Reception Description		
Vacant Lot Receptor 11		

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
366765	4908063	139.5

**Point of Reception ID**  
**POR051**

Point of Reception Description		
House 40		

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
366607	4908072	135.3

**Point of Reception ID**  
**POR052**

Point of Reception Description		
Vacant Lot Receptor 12		

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
366663	4908145	139.6

**Point of Reception ID**  
**POR053**

Point of Reception Description		
House 41		

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
366624	4908373	139.6

**Point of Reception ID**  
**POR054**

Point of Reception Description		
Vacant Lot Receptor 13		

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
366705	4908451	144.3

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR	Units <sup>(2)</sup>
1945	10	dBA
1914	10	dBA
1899	10	dBA
1486	19	dBA
1435	19	dBA
1391	13	dBA
1368	13	dBA
1341	13	dBA
1229	14	dBA
1187	14	dBA
1153	15	dBA
1178	21	dBA
1099	21	dBA
1037	22	dBA
1178	21	dBA
1738	17	dBA
1634	12	dBA
1569	12	dBA
1503	12	dBA
1762	17	dBA
1700	11	dBA
1818	17	dBA
3213	0	dBA
3129	0	dBA
3062	0	dBA
2941	0	dBA
2898	0	dBA
2853	0	dBA
2812	0	dBA
2774	0	dBA
2731	0	dBA
3319	0	dBA
3234	0	dBA
3147	0	dBA
3067	0	dBA
3008	0	dBA
3009	0	dBA
3486	0	dBA
3417	0	dBA
3353	0	dBA
3293	0	dBA
3229	0	dBA
3180	0	dBA
3135	0	dBA
3499	0	dBA
3368	0	dBA
3363	0	dBA
2782	0	dBA
3479	0	dBA
3480	0	dBA
3482	0	dBA
3328	0	dBA
3329	0	dBA
3331	0	dBA
3180	0	dBA
3181	0	dBA
3183	0	dBA

Distance (m)	Sound Level at PoR	Units <sup>(2)</sup>
2101	0	dBA
2072	0	dBA
2057	0	dBA
1634	13	dBA
1587	14	dBA
1546	8	dBA
1525	8	dBA
1500	8	dBA
1381	9	dBA
1343	9	dBA
1311	9	dBA
1306	16	dBA
1234	16	dBA
1177	17	dBA
1321	15	dBA
1684	17	dBA
1573	12	dBA
1501	12	dBA
1426	13	dBA
1688	17	dBA
1618	12	dBA
1720	17	dBA
3140	0	dBA
3050	0	dBA
2978	0	dBA
2850	0	dBA
2802	0	dBA
2753	0	dBA
2708	0	dBA
2666	0	dBA
2617	0	dBA
3240	0	dBA
3150	0	dBA
3055	0	dBA
2969	0	dBA
2904	0	dBA
2896	0	dBA
3402	0	dBA
3328	0	dBA
3259	0	dBA
3194	0	dBA
3125	0	dBA
3071	0	dBA
3021	0	dBA
3435	0	dBA
3302	0	dBA
3307	0	dBA
2933	0	dBA
3617	0	dBA
3619	0	dBA
3621	0	dBA
3464	0	dBA
3465	0	dBA
3467	0	dBA
3313	0	dBA
3315	0	dBA
3317	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2061	0	dBA
2027	0	dBA
2006	0	dBA
1613	18	dBA
1560	18	dBA
1511	12	dBA
1486	12	dBA
1454	13	dBA
1353	13	dBA
1306	13	dBA
1264	14	dBA
1308	20	dBA
1230	20	dBA
1167	21	dBA
1307	20	dBA
1772	17	dBA
1662	11	dBA
1591	12	dBA
1517	12	dBA
1779	17	dBA
1709	11	dBA
1812	17	dBA
3231	0	dBA
3142	0	dBA
3070	0	dBA
2942	0	dBA
2894	0	dBA
2845	0	dBA
2799	0	dBA
2757	0	dBA
2707	0	dBA
3332	0	dBA
3241	0	dBA
3147	0	dBA
3060	0	dBA
2996	0	dBA
2987	0	dBA
3494	0	dBA
3420	0	dBA
3351	0	dBA
3286	0	dBA
3217	0	dBA
3162	0	dBA
3111	0	dBA
3525	0	dBA
3392	0	dBA
3396	0	dBA
2861	0	dBA
3609	0	dBA
3610	0	dBA
3612	0	dBA
3458	0	dBA
3459	0	dBA
3461	0	dBA
3310	0	dBA
3311	0	dBA
3313	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2162	0	dBA
2113	0	dBA
2080	0	dBA
1757	16	dBA
1693	17	dBA
1630	11	dBA
1595	12	dBA
1547	12	dBA
1485	12	dBA
1422	13	dBA
1355	13	dBA
1496	18	dBA
1408	18	dBA
1336	19	dBA
1469	18	dBA
1974	15	dBA
1860	10	dBA
1783	11	dBA
1702	11	dBA
1964	15	dBA
1887	10	dBA
1972	15	dBA
3414	0	dBA
3319	0	dBA
3242	0	dBA
3105	0	dBA
3053	0	dBA
2998	0	dBA
2946	0	dBA
2898	0	dBA
2839	0	dBA
3508	0	dBA
3412	0	dBA
3310	0	dBA
3214	0	dBA
3142	0	dBA
3120	0	dBA
3664	0	dBA
3585	0	dBA
3510	0	dBA
3439	0	dBA
3362	0	dBA
3300	0	dBA
3242	0	dBA
3716	0	dBA
3581	0	dBA
3593	0	dBA
2857	0	dBA
3770	0	dBA
3771	0	dBA
3774	0	dBA
3624	0	dBA
3625	0	dBA
3627	0	dBA
3481	0	dBA
3483	0	dBA
3485	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2113	0	dBA
2057	0	dBA
2017	0	dBA
1733	17	dBA
1662	18	dBA
1592	12	dBA
1552	12	dBA
1496	12	dBA
1456	13	dBA
1384	13	dBA
1306	14	dBA
1501	19	dBA
1408	19	dBA
1330	20	dBA
1457	19	dBA
2074	0	dBA
1962	10	dBA
1887	10	dBA
1808	11	dBA
2070	0	dBA
1995	10	dBA
2083	0	dBA
3521	0	dBA
3427	0	dBA
3351	0	dBA
3215	0	dBA
3164	0	dBA
3110	0	dBA
3059	0	dBA
3010	0	dBA
2952	0	dBA
3617	0	dBA
3522	0	dBA
3420	0	dBA
3326	0	dBA
3254	0	dBA
3233	0	dBA
3774	0	dBA
3696	0	dBA
3622	0	dBA
3551	0	dBA
3475	0	dBA
3413	0	dBA
3355	0	dBA
3821	0	dBA
3687	0	dBA
3696	0	dBA
2765	0	dBA
3750	0	dBA
3752	0	dBA
3754	0	dBA
3608	0	dBA
3610	0	dBA
3612	0	dBA
3468	0	dBA
3470	0	dBA
3472	0	dBA



**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID <b>POR050</b>	Point of Reception ID <b>POR051</b>	Point of Reception ID <b>POR052</b>	Point of Reception ID <b>POR053</b>	Point of Reception ID <b>POR054</b>
<b>Point of Reception Description</b> Vacant Lot Receptor 11	<b>Point of Reception Description</b> House 40	<b>Point of Reception Description</b> Vacant Lot Receptor 12	<b>Point of Reception Description</b> House 41	<b>Point of Reception Description</b> Vacant Lot Receptor 13
<b>Point of reception coordinates</b> X Y Z <sup>[1]</sup>	<b>Point of reception coordinates</b> X Y Z <sup>[1]</sup>	<b>Point of reception coordinates</b> X Y Z <sup>[1]</sup>	<b>Point of reception coordinates</b> X Y Z <sup>[1]</sup>	<b>Point of reception coordinates</b> X Y Z <sup>[1]</sup>
366765 4908063 139.5	366607 4908072 135.3	366663 4908145 139.6	366624 4908373 139.6	366705 4908451 144.3

Source ID <sup>[1]</sup>	Source Description
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit

Distance (m)	Sound Level at PoR	Units <sup>[2]</sup>
3039	0	dB(A)
3040	0	dB(A)
3042	0	dB(A)
3446	0	dB(A)
3447	0	dB(A)
3449	0	dB(A)
3425	0	dB(A)
3426	0	dB(A)
3428	0	dB(A)
3309	0	dB(A)
3310	0	dB(A)
3312	0	dB(A)
3178	0	dB(A)
3179	0	dB(A)
3182	0	dB(A)
3106	0	dB(A)
3108	0	dB(A)
3110	0	dB(A)
3339	0	dB(A)
3340	0	dB(A)
3343	0	dB(A)
3558	0	dB(A)
4673	0	dB(A)
4843	0	dB(A)
4825	0	dB(A)
4976	0	dB(A)
4959	0	dB(A)
5107	0	dB(A)
5092	0	dB(A)
5239	0	dB(A)
5225	0	dB(A)
5372	0	dB(A)
5360	0	dB(A)

Distance (m)	Sound Level at PoR	Units <sup>[2]</sup>
3182	0	dB(A)
3183	0	dB(A)
3185	0	dB(A)
3593	0	dB(A)
3593	0	dB(A)
3596	0	dB(A)
3568	0	dB(A)
3570	0	dB(A)
3572	0	dB(A)
3454	0	dB(A)
3455	0	dB(A)
3458	0	dB(A)
3323	0	dB(A)
3324	0	dB(A)
3326	0	dB(A)
3245	0	dB(A)
3247	0	dB(A)
3249	0	dB(A)
3480	0	dB(A)
3481	0	dB(A)
3483	0	dB(A)
3694	0	dB(A)
4680	0	dB(A)
4847	0	dB(A)
4833	0	dB(A)
4981	0	dB(A)
4968	0	dB(A)
5114	0	dB(A)
5103	0	dB(A)
5248	0	dB(A)
5238	0	dB(A)
5382	0	dB(A)
5375	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
3168	0	dB(A)
3169	0	dB(A)
3171	0	dB(A)
3573	0	dB(A)
3574	0	dB(A)
3576	0	dB(A)
3553	0	dB(A)
3555	0	dB(A)
3557	0	dB(A)
3436	0	dB(A)
3437	0	dB(A)
3439	0	dB(A)
3306	0	dB(A)
3307	0	dB(A)
3310	0	dB(A)
3236	0	dB(A)
3238	0	dB(A)
3240	0	dB(A)
3468	0	dB(A)
3470	0	dB(A)
3472	0	dB(A)
3688	0	dB(A)
4753	0	dB(A)
4921	0	dB(A)
4906	0	dB(A)
5054	0	dB(A)
5040	0	dB(A)
5187	0	dB(A)
5174	0	dB(A)
5320	0	dB(A)
5309	0	dB(A)
5453	0	dB(A)
5445	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
3319	0	dB(A)
3321	0	dB(A)
3323	0	dB(A)
3713	0	dB(A)
3714	0	dB(A)
3716	0	dB(A)
3703	0	dB(A)
3704	0	dB(A)
3706	0	dB(A)
3580	0	dB(A)
3581	0	dB(A)
3583	0	dB(A)
3454	0	dB(A)
3455	0	dB(A)
3457	0	dB(A)
3397	0	dB(A)
3399	0	dB(A)
3401	0	dB(A)
3625	0	dB(A)
3626	0	dB(A)
3629	0	dB(A)
3853	0	dB(A)
4981	0	dB(A)
5148	0	dB(A)
5134	0	dB(A)
5282	0	dB(A)
5269	0	dB(A)
5415	0	dB(A)
5404	0	dB(A)
5548	0	dB(A)
5538	0	dB(A)
5682	0	dB(A)
5675	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
3294	0	dB(A)
3296	0	dB(A)
3298	0	dB(A)
3680	0	dB(A)
3682	0	dB(A)
3684	0	dB(A)
3676	0	dB(A)
3678	0	dB(A)
3680	0	dB(A)
3550	0	dB(A)
3551	0	dB(A)
3553	0	dB(A)
3426	0	dB(A)
3428	0	dB(A)
3430	0	dB(A)
3378	0	dB(A)
3380	0	dB(A)
3382	0	dB(A)
3603	0	dB(A)
3604	0	dB(A)
3607	0	dB(A)
3836	0	dB(A)
5060	0	dB(A)
5228	0	dB(A)
5212	0	dB(A)
5362	0	dB(A)
5346	0	dB(A)
5494	0	dB(A)
5480	0	dB(A)
5626	0	dB(A)
5614	0	dB(A)
5759	0	dB(A)
5750	0	dB(A)

**Appendix H: Point of Reception Noise Impac**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
<b>POR055</b>	<b>POR056</b>	<b>POR057</b>	<b>POR058</b>	<b>POR059</b>
<b>Point of Reception Description</b> House 42	<b>Point of Reception Description</b> House 43	<b>Point of Reception Description</b> Vacant Lot Receptor 14	<b>Point of Reception Description</b> Vacant Lot Receptor 15	<b>Point of Reception Description</b> House 44
<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>	<b>Point of reception coordinates</b>
X Y Z <sup>[1]</sup>	X Y Z <sup>[1]</sup>	X Y Z <sup>[1]</sup>	X Y Z <sup>[1]</sup>	X Y Z <sup>[1]</sup>
366652 4908460 141.9	366655 4908543 142.3	366635 4908622 144.1	366624 4908749 141.7	366582 4908917 133.9

Source ID <sup>[1]</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_1_U1	MVPP P2/1_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U1	MVPP P11A_U1
MVPP_P11A_U2	MVPP P11A_U2
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
4005	0	dB(A)
3980	0	dB(A)
3962	0	dB(A)
3680	0	dB(A)
3427	0	dB(A)
3382	0	dB(A)
3360	0	dB(A)
3350	0	dB(A)
3345	0	dB(A)
3347	0	dB(A)
2880	0	dB(A)
2844	0	dB(A)
2816	0	dB(A)
2793	0	dB(A)
2776	0	dB(A)
1135	10	dB(A)
1042	15	dB(A)
1239	14	dB(A)
808	24	dB(A)
695	25	dB(A)
586	26	dB(A)
504	28	dB(A)
301	32	dB(A)
280	33	dB(A)
374	24	dB(A)
3587	0	dB(A)
3625	0	dB(A)
3684	0	dB(A)
3725	0	dB(A)
3793	0	dB(A)
3839	0	dB(A)
3895	0	dB(A)
2008	0	dB(A)
1939	15	dB(A)
1870	10	dB(A)
1803	11	dB(A)
1769	11	dB(A)
1722	11	dB(A)
2302	0	dB(A)
2229	0	dB(A)
2173	0	dB(A)
2103	0	dB(A)
2040	0	dB(A)
1979	10	dB(A)
1948	10	dB(A)
1907	10	dB(A)
2446	0	dB(A)
2368	0	dB(A)
2290	0	dB(A)
2225	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
3991	0	dB(A)
3964	0	dB(A)
3943	0	dB(A)
3656	0	dB(A)
3406	0	dB(A)
3365	0	dB(A)
3347	0	dB(A)
3340	0	dB(A)
3339	0	dB(A)
3344	0	dB(A)
2850	0	dB(A)
2818	0	dB(A)
2794	0	dB(A)
2775	0	dB(A)
2762	0	dB(A)
1128	10	dB(A)
1056	15	dB(A)
1246	9	dB(A)
736	24	dB(A)
628	26	dB(A)
529	27	dB(A)
462	29	dB(A)
269	33	dB(A)
305	32	dB(A)
431	23	dB(A)
3610	0	dB(A)
3649	0	dB(A)
3712	0	dB(A)
3746	0	dB(A)
3819	0	dB(A)
3866	0	dB(A)
3925	0	dB(A)
2053	0	dB(A)
1981	15	dB(A)
1907	10	dB(A)
1836	10	dB(A)
1798	11	dB(A)
1747	11	dB(A)
2349	0	dB(A)
2274	0	dB(A)
2214	0	dB(A)
2141	0	dB(A)
2074	0	dB(A)
2009	0	dB(A)
1975	10	dB(A)
1929	10	dB(A)
2490	0	dB(A)
2408	0	dB(A)
2327	0	dB(A)
2257	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
4004	0	dB(A)
3973	0	dB(A)
3950	0	dB(A)
3657	0	dB(A)
3411	0	dB(A)
3373	0	dB(A)
3359	0	dB(A)
3356	0	dB(A)
3358	0	dB(A)
3367	0	dB(A)
2847	0	dB(A)
2818	0	dB(A)
2798	0	dB(A)
2783	0	dB(A)
2774	0	dB(A)
1151	10	dB(A)
1099	15	dB(A)
1281	9	dB(A)
684	26	dB(A)
585	27	dB(A)
502	28	dB(A)
455	29	dB(A)
284	33	dB(A)
365	31	dB(A)
506	22	dB(A)
3655	0	dB(A)
3696	0	dB(A)
3762	0	dB(A)
3791	0	dB(A)
3866	0	dB(A)
3916	0	dB(A)
3977	0	dB(A)
2117	0	dB(A)
2042	0	dB(A)
1966	10	dB(A)
1891	10	dB(A)
1851	10	dB(A)
1796	11	dB(A)
2414	0	dB(A)
2337	0	dB(A)
2276	0	dB(A)
2200	0	dB(A)
2130	0	dB(A)
2061	0	dB(A)
2025	0	dB(A)
1975	10	dB(A)
2553	0	dB(A)
2469	0	dB(A)
2385	0	dB(A)
2312	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
4005	0	dB(A)
3970	0	dB(A)
3944	0	dB(A)
3642	0	dB(A)
3402	0	dB(A)
3369	0	dB(A)
3361	0	dB(A)
3363	0	dB(A)
3371	0	dB(A)
3385	0	dB(A)
2825	0	dB(A)
2803	0	dB(A)
2788	0	dB(A)
2779	0	dB(A)
2777	0	dB(A)
1178	10	dB(A)
1155	10	dB(A)
1324	9	dB(A)
597	27	dB(A)
517	28	dB(A)
463	29	dB(A)
453	29	dB(A)
329	32	dB(A)
460	26	dB(A)
618	16	dB(A)
3710	0	dB(A)
3754	0	dB(A)
3824	0	dB(A)
3844	0	dB(A)
3925	0	dB(A)
3978	0	dB(A)
4042	0	dB(A)
2205	0	dB(A)
2126	0	dB(A)
2045	0	dB(A)
1964	6	dB(A)
1920	6	dB(A)
1859	6	dB(A)
2504	0	dB(A)
2424	0	dB(A)
2360	0	dB(A)
2280	0	dB(A)
2204	0	dB(A)
2129	0	dB(A)
2089	0	dB(A)
2034	0	dB(A)
2638	0	dB(A)
2550	0	dB(A)
2461	0	dB(A)
2383	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
4040	0	dB(A)
4000	0	dB(A)
3969	0	dB(A)
3656	0	dB(A)
3425	0	dB(A)
3399	0	dB(A)
3399	0	dB(A)
3408	0	dB(A)
3424	0	dB(A)
3444	0	dB(A)
2832	0	dB(A)
2818	0	dB(A)
2812	0	dB(A)
2811	0	dB(A)
2818	0	dB(A)
1258	9	dB(A)
1269	9	dB(A)
1423	8	dB(A)
535	24	dB(A)
494	25	dB(A)
492	25	dB(A)
529	24	dB(A)
461	25	dB(A)
619	23	dB(A)
786	14	dB(A)
3813	0	dB(A)
3861	0	dB(A)
3935	0	dB(A)
3945	0	dB(A)
4032	0	dB(A)
4089	0	dB(A)
4157	0	dB(A)
2348	0	dB(A)
2265	0	dB(A)
2179	0	dB(A)
2091	0	dB(A)
2044	0	dB(A)
1977	5	dB(A)
2648	0	dB(A)
2565	0	dB(A)
2497	0	dB(A)
2413	0	dB(A)
2332	0	dB(A)
2251	0	dB(A)
2207	0	dB(A)
2145	0	dB(A)
2777	0	dB(A)
2685	0	dB(A)
2591	0	dB(A)
2508	0	dB(A)

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR055**

Point of Reception Description
House 42

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
366652	4908460	141.9

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2166	0	dBA
2111	0	dBA
2072	0	dBA
1782	16	dBA
1712	17	dBA
1643	11	dBA
1605	12	dBA
1549	12	dBA
1505	12	dBA
1436	13	dBA
1359	13	dBA
1542	18	dBA
1450	18	dBA
1374	19	dBA
1503	18	dBA
2065	0	dBA
1952	10	dBA
1874	10	dBA
1793	11	dBA
2055	0	dBA
1977	10	dBA
2060	0	dBA
3504	0	dBA
3408	0	dBA
3331	0	dBA
3192	0	dBA
3140	0	dBA
3084	0	dBA
3031	0	dBA
2982	0	dBA
2922	0	dBA
3598	0	dBA
3501	0	dBA
3397	0	dBA
3301	0	dBA
3227	0	dBA
3202	0	dBA
3753	0	dBA
3673	0	dBA
3597	0	dBA
3525	0	dBA
3447	0	dBA
3384	0	dBA
3324	0	dBA
3807	0	dBA
3672	0	dBA
3684	0	dBA
2818	0	dBA
3799	0	dBA
3800	0	dBA
3802	0	dBA
3655	0	dBA
3657	0	dBA
3659	0	dBA
3515	0	dBA
3517	0	dBA
3519	0	dBA

**Point of Reception ID**  
**POR056**

Point of Reception Description
House 43

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
366655	4908543	142.3

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2194	0	dBA
2134	0	dBA
2090	0	dBA
1827	16	dBA
1754	16	dBA
1680	11	dBA
1639	11	dBA
1577	12	dBA
1548	12	dBA
1473	12	dBA
1389	13	dBA
1604	17	dBA
1509	18	dBA
1431	18	dBA
1556	18	dBA
2145	0	dBA
2031	0	dBA
1952	10	dBA
1870	10	dBA
2132	0	dBA
2053	0	dBA
2131	0	dBA
3580	0	dBA
3483	0	dBA
3404	0	dBA
3264	0	dBA
3210	0	dBA
3153	0	dBA
3099	0	dBA
3048	0	dBA
2985	0	dBA
3672	0	dBA
3574	0	dBA
3468	0	dBA
3369	0	dBA
3294	0	dBA
3266	0	dBA
3826	0	dBA
3745	0	dBA
3668	0	dBA
3594	0	dBA
3514	0	dBA
3449	0	dBA
3387	0	dBA
3884	0	dBA
3749	0	dBA
3763	0	dBA
2805	0	dBA
3846	0	dBA
3848	0	dBA
3850	0	dBA
3704	0	dBA
3706	0	dBA
3708	0	dBA
3566	0	dBA
3569	0	dBA
3570	0	dBA

**Point of Reception ID**  
**POR057**

Point of Reception Description
Vacant Lot Receptor 14

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
366635	4908622	144.1

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2245	0	dBA
2181	0	dBA
2133	0	dBA
1892	16	dBA
1816	17	dBA
1739	11	dBA
1695	11	dBA
1630	12	dBA
1611	12	dBA
1533	12	dBA
1442	13	dBA
1680	18	dBA
1583	18	dBA
1503	19	dBA
1626	18	dBA
2216	0	dBA
2100	0	dBA
2019	0	dBA
1935	10	dBA
2197	0	dBA
2116	0	dBA
2189	0	dBA
3642	0	dBA
3544	0	dBA
3463	0	dBA
3320	0	dBA
3265	0	dBA
3206	0	dBA
3150	0	dBA
3097	0	dBA
3032	0	dBA
3733	0	dBA
3633	0	dBA
3524	0	dBA
3423	0	dBA
3344	0	dBA
3312	0	dBA
3884	0	dBA
3801	0	dBA
3722	0	dBA
3647	0	dBA
3564	0	dBA
3497	0	dBA
3432	0	dBA
3949	0	dBA
3814	0	dBA
3831	0	dBA
2820	0	dBA
3911	0	dBA
3913	0	dBA
3915	0	dBA
3771	0	dBA
3773	0	dBA
3775	0	dBA
3635	0	dBA
3637	0	dBA
3639	0	dBA

**Point of Reception ID**  
**POR058**

Point of Reception Description
Vacant Lot Receptor 15

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
366624	4908749	141.7

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2311	0	dBA
2240	0	dBA
2186	0	dBA
1981	12	dBA
1901	13	dBA
1819	6	dBA
1771	6	dBA
1699	7	dBA
1699	7	dBA
1614	7	dBA
1515	8	dBA
1789	13	dBA
1690	14	dBA
1607	14	dBA
1725	14	dBA
2335	0	dBA
2218	0	dBA
2136	0	dBA
2049	0	dBA
2311	0	dBA
2227	0	dBA
2293	0	dBA
3753	0	dBA
3652	0	dBA
3570	0	dBA
3423	0	dBA
3366	0	dBA
3305	0	dBA
3247	0	dBA
3191	0	dBA
3123	0	dBA
3841	0	dBA
3738	0	dBA
3626	0	dBA
3522	0	dBA
3440	0	dBA
3403	0	dBA
3989	0	dBA
3904	0	dBA
3823	0	dBA
3745	0	dBA
3659	0	dBA
3589	0	dBA
3521	0	dBA
4062	0	dBA
3927	0	dBA
3947	0	dBA
2826	0	dBA
4000	0	dBA
4002	0	dBA
4004	0	dBA
3862	0	dBA
3865	0	dBA
3867	0	dBA
3729	0	dBA
3731	0	dBA
3733	0	dBA

**Point of Reception ID**  
**POR059**

Point of Reception Description
House 44

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
366582	4908917	133.9

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2430	0	dBA
2351	0	dBA
2291	0	dBA
2125	0	dBA
2041	0	dBA
1953	5	dBA
1902	6	dBA
1823	6	dBA
1842	6	dBA
1751	6	dBA
1643	7	dBA
1951	12	dBA
1850	12	dBA
1765	13	dBA
1879	12	dBA
2488	0	dBA
2369	0	dBA
2284	0	dBA
2194	0	dBA
2454	0	dBA
2368	0	dBA
2423	0	dBA
3890	0	dBA
3786	0	dBA
3701	0	dBA
3548	0	dBA
3489	0	dBA
3425	0	dBA
3363	0	dBA
3304	0	dBA
3230	0	dBA
3974	0	dBA
3868	0	dBA
3751	0	dBA
3641	0	dBA
3555	0	dBA
3509	0	dBA
4118	0	dBA
4030	0	dBA
3945	0	dBA
3863	0	dBA
3773	0	dBA
3698	0	dBA
3626	0	dBA
4204	0	dBA
4067	0	dBA
4093	0	dBA
2870	0	dBA
4141	0	dBA
4143	0	dBA
4145	0	dBA
4007	0	dBA
4009	0	dBA
4011	0	dBA
3876	0	dBA
3878	0	dBA
3880	0	dBA

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>[1]</sup>	Source Description	Point of Reception ID <b>POR055</b>			Point of Reception ID <b>POR056</b>			Point of Reception ID <b>POR057</b>			Point of Reception ID <b>POR058</b>			Point of Reception ID <b>POR059</b>		
		Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>	Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>	Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>	Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>	Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
		Point of Reception Description House 42			Point of Reception Description House 43			Point of Reception Description Vacant Lot Receptor 14			Point of Reception Description Vacant Lot Receptor 15			Point of Reception Description House 44		
		Point of reception coordinates X Y Z <sup>[1]</sup>			Point of reception coordinates X Y Z <sup>[1]</sup>			Point of reception coordinates X Y Z <sup>[1]</sup>			Point of reception coordinates X Y Z <sup>[1]</sup>			Point of reception coordinates X Y Z <sup>[1]</sup>		
		366652	4908460	141.9	366655	4908543	142.3	366635	4908622	144.1	366624	4908749	141.7	366582	4908917	133.9
WB_H4T	Hut 4 Transformer	3344	0	dBa	3388	0	dBa	3451	0	dBa	3536	0	dBa	3673	0	dBa
WB_H4I1	Hut 4 Inverter 1	3345	0	dBa	3390	0	dBa	3453	0	dBa	3538	0	dBa	3675	0	dBa
WB_H4I2	Hut 4 Inverter 2	3347	0	dBa	3392	0	dBa	3455	0	dBa	3540	0	dBa	3677	0	dBa
WB_H5T	Hut 5 Transformer	3731	0	dBa	3770	0	dBa	3829	0	dBa	3907	0	dBa	4037	0	dBa
WB_H5I1	Hut 5 Inverter 1	3732	0	dBa	3772	0	dBa	3831	0	dBa	3909	0	dBa	4039	0	dBa
WB_H5I2	Hut 5 Inverter 2	3734	0	dBa	3774	0	dBa	3833	0	dBa	3911	0	dBa	4041	0	dBa
WB_H6T	Hut 6 Transformer	3726	0	dBa	3769	0	dBa	3831	0	dBa	3914	0	dBa	4048	0	dBa
WB_H6I1	Hut 6 Inverter 1	3727	0	dBa	3770	0	dBa	3832	0	dBa	3915	0	dBa	4050	0	dBa
WB_H6I2	Hut 6 Inverter 2	3729	0	dBa	3772	0	dBa	3834	0	dBa	3917	0	dBa	4052	0	dBa
WB_H7T	Hut 7 Transformer	3600	0	dBa	3641	0	dBa	3701	0	dBa	3781	0	dBa	3914	0	dBa
WB_H7I1	Hut 7 Inverter 1	3601	0	dBa	3642	0	dBa	3703	0	dBa	3783	0	dBa	3915	0	dBa
WB_H7I2	Hut 7 Inverter 2	3604	0	dBa	3645	0	dBa	3705	0	dBa	3785	0	dBa	3917	0	dBa
WB_H8T	Hut 8 Transformer	3476	0	dBa	3518	0	dBa	3580	0	dBa	3662	0	dBa	3797	0	dBa
WB_H8I1	Hut 8 Inverter 1	3477	0	dBa	3520	0	dBa	3582	0	dBa	3664	0	dBa	3799	0	dBa
WB_H8I2	Hut 8 Inverter 2	3480	0	dBa	3522	0	dBa	3584	0	dBa	3666	0	dBa	3801	0	dBa
WB_H9T	Hut 9 Transformer	3426	0	dBa	3474	0	dBa	3539	0	dBa	3629	0	dBa	3771	0	dBa
WB_H9I1	Hut 9 Inverter 1	3428	0	dBa	3476	0	dBa	3541	0	dBa	3631	0	dBa	3773	0	dBa
WB_H9I2	Hut 9 Inverter 2	3430	0	dBa	3478	0	dBa	3543	0	dBa	3633	0	dBa	3775	0	dBa
WB_H10T	Hut 10 Transformer	3651	0	dBa	3697	0	dBa	3761	0	dBa	3848	0	dBa	3987	0	dBa
WB_H10I1	Hut 10 Inverter 1	3653	0	dBa	3699	0	dBa	3763	0	dBa	3850	0	dBa	3989	0	dBa
WB_H10I2	Hut 10 Inverter 2	3655	0	dBa	3701	0	dBa	3765	0	dBa	3852	0	dBa	3991	0	dBa
WB_ST	Substation Transformer	3884	0	dBa	3933	0	dBa	3999	0	dBa	4090	0	dBa	4233	0	dBa
KGH2_Sub	44-kV/10-MVA Substation transformer	5068	0	dBa	5151	0	dBa	5230	0	dBa	5357	0	dBa	5525	0	dBa
KGH2_Inv01	Sunny Central 1000MV inverter unit	5235	0	dBa	5318	0	dBa	5397	0	dBa	5524	0	dBa	5691	0	dBa
KGH2_Inv02	Sunny Central 1000MV inverter unit	5221	0	dBa	5304	0	dBa	5383	0	dBa	5510	0	dBa	5678	0	dBa
KGH2_Inv03	Sunny Central 1000MV inverter unit	5369	0	dBa	5452	0	dBa	5531	0	dBa	5658	0	dBa	5826	0	dBa
KGH2_Inv04	Sunny Central 1000MV inverter unit	5355	0	dBa	5438	0	dBa	5518	0	dBa	5645	0	dBa	5814	0	dBa
KGH2_Inv05	Sunny Central 1000MV inverter unit	5502	0	dBa	5585	0	dBa	5664	0	dBa	5791	0	dBa	5959	0	dBa
KGH2_Inv06	Sunny Central 1000MV inverter unit	5490	0	dBa	5572	0	dBa	5652	0	dBa	5779	0	dBa	5948	0	dBa
KGH2_Inv07	Sunny Central 1000MV inverter unit	5635	0	dBa	5718	0	dBa	5797	0	dBa	5924	0	dBa	6093	0	dBa
KGH2_Inv08	Sunny Central 1000MV inverter unit	5624	0	dBa	5707	0	dBa	5787	0	dBa	5914	0	dBa	6083	0	dBa
KGH2_Inv09	Sunny Central 1000MV inverter unit	5769	0	dBa	5851	0	dBa	5931	0	dBa	6058	0	dBa	6227	0	dBa
KGH2_Inv10	Sunny Central 1000MV inverter unit	5760	0	dBa	5843	0	dBa	5923	0	dBa	6050	0	dBa	6220	0	dBa

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
<b>POR060</b>	<b>POR061</b>	<b>POR062</b>	<b>POR063</b>	<b>POR064</b>
<b>Point of Reception Description</b> House 45	<b>Point of Reception Description</b> Vacant Lot Receptor 16	<b>Point of Reception Description</b> Vacant Lot Receptor 17	<b>Point of Reception Description</b> Vacant Lot Receptor 18	<b>Point of Reception Description</b> House 46
<b>Point of reception coordinates</b>			<b>Point of reception coordinates</b>	
X	Y	Z <sup>[1]</sup>	X	Y
366648	4909043	136.0	367016	4910060
<b>Point of reception coordinates</b>			<b>Point of reception coordinates</b>	
X	Y	Z <sup>[1]</sup>	X	Y
367266	4910349	145.7	367411	4910357
<b>Point of reception coordinates</b>			<b>Point of reception coordinates</b>	
X	Y	Z <sup>[1]</sup>	X	Y
367120	4908246	138.5		

Source ID <sup>[1]</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_U1	MVPP P7/9_U1
MVPP_P7_9_U2	MVPP P7/9_U2
MVPP_P7_9_U3	MVPP P7/9_U3
MVPP_P7_9_U4	MVPP P7/9_U4
MVPP_P11A_U1	MVPP P11A_U1
MVPP_P11A_U2	MVPP P11A_U2
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
3974	0	dB(A)
3929	0	dB(A)
3895	0	dB(A)
3576	0	dB(A)
3350	0	dB(A)
3330	0	dB(A)
3336	0	dB(A)
3350	0	dB(A)
3371	0	dB(A)
3397	0	dB(A)
2748	0	dB(A)
2740	0	dB(A)
2739	0	dB(A)
2745	0	dB(A)
2757	0	dB(A)
1241	10	dB(A)
1284	9	dB(A)
1421	8	dB(A)
428	26	dB(A)
418	26	dB(A)
458	25	dB(A)
531	24	dB(A)
518	24	dB(A)
698	21	dB(A)
877	13	dB(A)
3806	0	dB(A)
3858	0	dB(A)
3937	0	dB(A)
3936	0	dB(A)
4030	0	dB(A)
4089	0	dB(A)
4162	0	dB(A)
2389	0	dB(A)
2301	0	dB(A)
2209	0	dB(A)
2115	0	dB(A)
2063	0	dB(A)
1989	5	dB(A)
2691	0	dB(A)
2603	0	dB(A)
2531	0	dB(A)
2441	0	dB(A)
2355	0	dB(A)
2267	0	dB(A)
2220	0	dB(A)
2151	0	dB(A)
2813	0	dB(A)
2716	0	dB(A)
2616	0	dB(A)
2526	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
3761	0	dB(A)
3683	0	dB(A)
3620	0	dB(A)
3251	0	dB(A)
3094	0	dB(A)
3124	0	dB(A)
3181	0	dB(A)
3239	0	dB(A)
3306	0	dB(A)
3374	0	dB(A)
2446	0	dB(A)
2494	0	dB(A)
2544	0	dB(A)
2604	0	dB(A)
2670	0	dB(A)
1700	7	dB(A)
1903	6	dB(A)
1923	6	dB(A)
904	23	dB(A)
1043	22	dB(A)
1192	17	dB(A)
1331	16	dB(A)
1462	19	dB(A)
1660	14	dB(A)
1848	6	dB(A)
4063	0	dB(A)
4138	0	dB(A)
4249	0	dB(A)
4172	0	dB(A)
4307	0	dB(A)
4391	0	dB(A)
4490	0	dB(A)
3025	0	dB(A)
2915	0	dB(A)
2797	0	dB(A)
2672	0	dB(A)
2601	0	dB(A)
2495	0	dB(A)
3317	0	dB(A)
3209	0	dB(A)
3120	0	dB(A)
3004	0	dB(A)
2890	0	dB(A)
2768	0	dB(A)
2700	0	dB(A)
2599	0	dB(A)
3394	0	dB(A)
3271	0	dB(A)
3142	0	dB(A)
3022	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
3620	0	dB(A)
3532	0	dB(A)
3459	0	dB(A)
3080	0	dB(A)
2952	0	dB(A)
2999	0	dB(A)
3073	0	dB(A)
3145	0	dB(A)
3228	0	dB(A)
3309	0	dB(A)
2308	0	dB(A)
2375	0	dB(A)
2442	0	dB(A)
2520	0	dB(A)
2603	0	dB(A)
1878	6	dB(A)
2114	0	dB(A)
2098	0	dB(A)
1209	21	dB(A)
1346	20	dB(A)
1492	19	dB(A)
1630	14	dB(A)
1782	13	dB(A)
1976	12	dB(A)
2161	0	dB(A)
4082	0	dB(A)
4164	0	dB(A)
4286	0	dB(A)
4182	0	dB(A)
4330	0	dB(A)
4421	0	dB(A)
4528	0	dB(A)
3198	0	dB(A)
3084	0	dB(A)
2960	0	dB(A)
2828	0	dB(A)
2754	0	dB(A)
2641	0	dB(A)
3481	0	dB(A)
3368	0	dB(A)
3274	0	dB(A)
3153	0	dB(A)
3032	0	dB(A)
2904	0	dB(A)
2831	0	dB(A)
2722	0	dB(A)
3541	0	dB(A)
3412	0	dB(A)
3274	0	dB(A)
3147	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
3489	0	dB(A)
3399	0	dB(A)
3325	0	dB(A)
2944	0	dB(A)
2822	0	dB(A)
2872	0	dB(A)
2950	0	dB(A)
3025	0	dB(A)
3111	0	dB(A)
3195	0	dB(A)
2180	0	dB(A)
2251	0	dB(A)
2322	0	dB(A)
2404	0	dB(A)
2491	0	dB(A)
1852	6	dB(A)
2099	0	dB(A)
2068	0	dB(A)
1250	20	dB(A)
1383	19	dB(A)
1526	18	dB(A)
1661	14	dB(A)
1824	13	dB(A)
2014	0	dB(A)
2196	0	dB(A)
3990	0	dB(A)
4074	0	dB(A)
4198	0	dB(A)
4087	0	dB(A)
4238	0	dB(A)
4331	0	dB(A)
4440	0	dB(A)
3162	0	dB(A)
3046	0	dB(A)
2921	0	dB(A)
2787	0	dB(A)
2711	0	dB(A)
2597	0	dB(A)
3440	0	dB(A)
3325	0	dB(A)
3230	0	dB(A)
3107	0	dB(A)
2985	0	dB(A)
2854	0	dB(A)
2779	0	dB(A)
2668	0	dB(A)
3493	0	dB(A)
3362	0	dB(A)
3222	0	dB(A)
3093	0	dB(A)

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup>
3579	0	dB(A)
3565	0	dB(A)
3557	0	dB(A)
3300	0	dB(A)
3034	0	dB(A)
2974	0	dB(A)
2938	0	dB(A)
2915	0	dB(A)
2897	0	dB(A)
2889	0	dB(A)
2532	0	dB(A)
2478	0	dB(A)
2434	0	dB(A)
2393	0	dB(A)
2359	0	dB(A)
727	19	dB(A)
558	21	dB(A)
771	18	dB(A)
913	22	dB(A)
774	24	dB(A)
625	26	dB(A)
486	28	dB(A)
408	30	dB(A)
249	34	dB(A)
190	30	dB(A)
3077	0	dB(A)
3112	0	dB(A)
3170	0	dB(A)
3216	0	dB(A)
3281	0	dB(A)
3325	0	dB(A)
3381	0	dB(A)
1504	18	dB(A)
1430	18	dB(A)
1357	13	dB(A)
1288	14	dB(A)
1254	14	dB(A)
1211	14	dB(A)
1801	16	dB(A)
1724	17	dB(A)
1663	17	dB(A)
1590	17	dB(A)
1525	12	dB(A)
1465	12	dB(A)
1435	13	dB(A)
1398	13	dB(A)
1939	15	dB(A)
1857	16	dB(A)
1777	16	dB(A)
1710	11	dB(A)

**Appendix H: Point of Reception Noise Impac**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR060**

Point of Reception Description		
House 45		

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
366648	4909043	136.0

**Point of Reception ID**  
**POR061**

Point of Reception Description		
Vacant Lot Receptor 16		

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
367016	4910060	144.0

**Point of Reception ID**  
**POR062**

Point of Reception Description		
Vacant Lot Receptor 17		

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
367266	4910349	145.7

**Point of Reception ID**  
**POR063**

Point of Reception Description		
Vacant Lot Receptor 18		

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
367411	4910357	147.1

**Point of Reception ID**  
**POR064**

Point of Reception Description		
House 46		

Point of reception coordinates		
X	Z	Z <sup>(1)</sup>
367120	4908246	138.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2442	0	dBA
2356	0	dBA
2289	0	dBA
2170	0	dBA
2080	0	dBA
1986	5	dBA
1930	6	dBA
1844	6	dBA
1885	6	dBA
1788	6	dBA
1670	7	dBA
2025	0	dBA
1920	12	dBA
1831	12	dBA
1939	12	dBA
2626	0	dBA
2507	0	dBA
2423	0	dBA
2334	0	dBA
2595	0	dBA
2509	0	dBA
2565	0	dBA
4031	0	dBA
3928	0	dBA
3843	0	dBA
3690	0	dBA
3631	0	dBA
3566	0	dBA
3505	0	dBA
3445	0	dBA
3371	0	dBA
4116	0	dBA
4010	0	dBA
3893	0	dBA
3783	0	dBA
3697	0	dBA
3650	0	dBA
4260	0	dBA
4172	0	dBA
4087	0	dBA
4005	0	dBA
3914	0	dBA
3839	0	dBA
3766	0	dBA
4345	0	dBA
4209	0	dBA
4233	0	dBA
2813	0	dBA
4178	0	dBA
4180	0	dBA
4182	0	dBA
4047	0	dBA
4050	0	dBA
4051	0	dBA
3921	0	dBA
3923	0	dBA
3925	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2904	0	dBA
2778	0	dBA
2673	0	dBA
2837	0	dBA
2726	0	dBA
2606	0	dBA
2532	0	dBA
2414	0	dBA
2571	0	dBA
2448	0	dBA
2291	0	dBA
2850	0	dBA
2733	0	dBA
2633	0	dBA
2700	0	dBA
3703	0	dBA
3586	0	dBA
3504	0	dBA
3415	0	dBA
3677	0	dBA
3590	0	dBA
3643	0	dBA
5112	0	dBA
5007	0	dBA
4919	0	dBA
4763	0	dBA
4700	0	dBA
4632	0	dBA
4566	0	dBA
4502	0	dBA
4420	0	dBA
5194	0	dBA
5085	0	dBA
4964	0	dBA
4848	0	dBA
4756	0	dBA
4697	0	dBA
5335	0	dBA
5243	0	dBA
5155	0	dBA
5068	0	dBA
4971	0	dBA
4889	0	dBA
4809	0	dBA
5427	0	dBA
5290	0	dBA
5315	0	dBA
2744	0	dBA
4713	0	dBA
4716	0	dBA
4718	0	dBA
4613	0	dBA
4616	0	dBA
4617	0	dBA
4517	0	dBA
4520	0	dBA
4522	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
3021	0	dBA
2887	0	dBA
2772	0	dBA
3026	0	dBA
2910	0	dBA
2785	0	dBA
2709	0	dBA
2585	0	dBA
2773	0	dBA
2646	0	dBA
2482	0	dBA
3092	0	dBA
2973	0	dBA
2872	0	dBA
2924	0	dBA
4052	0	dBA
3938	0	dBA
3858	0	dBA
3773	0	dBA
4035	0	dBA
3951	0	dBA
4010	0	dBA
5475	0	dBA
5373	0	dBA
5288	0	dBA
5134	0	dBA
5073	0	dBA
5006	0	dBA
4941	0	dBA
4878	0	dBA
4798	0	dBA
5561	0	dBA
5455	0	dBA
5336	0	dBA
5222	0	dBA
5132	0	dBA
5075	0	dBA
5704	0	dBA
5615	0	dBA
5528	0	dBA
5443	0	dBA
5348	0	dBA
5267	0	dBA
5188	0	dBA
5786	0	dBA
5651	0	dBA
5669	0	dBA
2681	0	dBA
4824	0	dBA
4827	0	dBA
4828	0	dBA
4735	0	dBA
4738	0	dBA
4740	0	dBA
4652	0	dBA
4655	0	dBA
4656	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2964	0	dBA
2827	0	dBA
2710	0	dBA
2997	0	dBA
2880	0	dBA
2753	0	dBA
2676	0	dBA
2550	0	dBA
2751	0	dBA
2623	0	dBA
2457	0	dBA
3086	0	dBA
2967	0	dBA
2865	0	dBA
2910	0	dBA
4107	0	dBA
3995	0	dBA
3918	0	dBA
3835	0	dBA
4098	0	dBA
4017	0	dBA
4083	0	dBA
5543	0	dBA
5443	0	dBA
5360	0	dBA
5210	0	dBA
5151	0	dBA
5086	0	dBA
5024	0	dBA
4962	0	dBA
4885	0	dBA
5632	0	dBA
5528	0	dBA
5413	0	dBA
5303	0	dBA
5215	0	dBA
5163	0	dBA
5779	0	dBA
5692	0	dBA
5607	0	dBA
5525	0	dBA
5432	0	dBA
5354	0	dBA
5277	0	dBA
5850	0	dBA
5715	0	dBA
5728	0	dBA
2570	0	dBA
4760	0	dBA
4763	0	dBA
4764	0	dBA
4675	0	dBA
4679	0	dBA
4680	0	dBA
4597	0	dBA
4601	0	dBA
4602	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1652	11	dBA
1601	12	dBA
1568	12	dBA
1278	19	dBA
1203	20	dBA
1130	15	dBA
1090	15	dBA
1035	15	dBA
998	16	dBA
922	16	dBA
845	17	dBA
1100	21	dBA
994	22	dBA
907	22	dBA
1020	21	dBA
2070	0	dBA
1975	10	dBA
1920	10	dBA
1866	10	dBA
2119	0	dBA
2067	0	dBA
2198	0	dBA
3562	0	dBA
3485	0	dBA
3423	0	dBA
3313	0	dBA
3273	0	dBA
3233	0	dBA
3195	0	dBA
3161	0	dBA
3122	0	dBA
3674	0	dBA
3597	0	dBA
3518	0	dBA
3445	0	dBA
3392	0	dBA
3399	0	dBA
3848	0	dBA
3784	0	dBA
3725	0	dBA
3670	0	dBA
3612	0	dBA
3567	0	dBA
3526	0	dBA
3835	0	dBA
3706	0	dBA
3687	0	dBA
2393	0	dBA
3298	0	dBA
3300	0	dBA
3302	0	dBA
3158	0	dBA
3160	0	dBA
3162	0	dBA
3023	0	dBA
3025	0	dBA
3027	0	dBA



**Appendix H: Point of Reception Noise Impac**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR060</b>			Point of Reception ID <b>POR061</b>			Point of Reception ID <b>POR062</b>			Point of Reception ID <b>POR063</b>			Point of Reception ID <b>POR064</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
WB_H4T	Hut 4 Transformer	3705	0	dBA	4227	0	dBA	4338	0	dBA	4275	0	dBA	2837	0	dBA
WB_H4I1	Hut 4 Inverter 1	3707	0	dBA	4230	0	dBA	4341	0	dBA	4279	0	dBA	2839	0	dBA
WB_H4I2	Hut 4 Inverter 2	3709	0	dBA	4231	0	dBA	4343	0	dBA	4280	0	dBA	2841	0	dBA
WB_H5T	Hut 5 Transformer	4059	0	dBA	4503	0	dBA	4582	0	dBA	4508	0	dBA	3219	0	dBA
WB_H5I1	Hut 5 Inverter 1	4060	0	dBA	4505	0	dBA	4585	0	dBA	4511	0	dBA	3220	0	dBA
WB_H5I2	Hut 5 Inverter 2	4062	0	dBA	4507	0	dBA	4587	0	dBA	4513	0	dBA	3223	0	dBA
WB_H6T	Hut 6 Transformer	4077	0	dBA	4564	0	dBA	4658	0	dBA	4589	0	dBA	3218	0	dBA
WB_H6I1	Hut 6 Inverter 1	4079	0	dBA	4567	0	dBA	4661	0	dBA	4592	0	dBA	3219	0	dBA
WB_H6I2	Hut 6 Inverter 2	4081	0	dBA	4568	0	dBA	4663	0	dBA	4593	0	dBA	3221	0	dBA
WB_H7T	Hut 7 Transformer	3938	0	dBA	4407	0	dBA	4497	0	dBA	4427	0	dBA	3090	0	dBA
WB_H7I1	Hut 7 Inverter 1	3940	0	dBA	4410	0	dBA	4500	0	dBA	4430	0	dBA	3091	0	dBA
WB_H7I2	Hut 7 Inverter 2	3942	0	dBA	4412	0	dBA	4502	0	dBA	4431	0	dBA	3093	0	dBA
WB_H8T	Hut 8 Transformer	3825	0	dBA	4319	0	dBA	4419	0	dBA	4352	0	dBA	2967	0	dBA
WB_H8I1	Hut 8 Inverter 1	3827	0	dBA	4322	0	dBA	4422	0	dBA	4355	0	dBA	2969	0	dBA
WB_H8I2	Hut 8 Inverter 2	3829	0	dBA	4323	0	dBA	4423	0	dBA	4357	0	dBA	2971	0	dBA
WB_H9T	Hut 9 Transformer	3809	0	dBA	4366	0	dBA	4487	0	dBA	4428	0	dBA	2926	0	dBA
WB_H9I1	Hut 9 Inverter 1	3811	0	dBA	4369	0	dBA	4491	0	dBA	4432	0	dBA	2928	0	dBA
WB_H9I2	Hut 9 Inverter 2	3813	0	dBA	4370	0	dBA	4492	0	dBA	4433	0	dBA	2930	0	dBA
WB_H10T	Hut 10 Transformer	4021	0	dBA	4544	0	dBA	4652	0	dBA	4588	0	dBA	3148	0	dBA
WB_H10I1	Hut 10 Inverter 1	4023	0	dBA	4547	0	dBA	4655	0	dBA	4591	0	dBA	3149	0	dBA
WB_H10I2	Hut 10 Inverter 2	4025	0	dBA	4549	0	dBA	4657	0	dBA	4592	0	dBA	3152	0	dBA
WB_ST	Substation Transformer	4272	0	dBA	4821	0	dBA	4936	0	dBA	4873	0	dBA	3386	0	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	5651	0	dBA	6679	0	dBA	6985	0	dBA	7009	0	dBA	4879	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	5818	0	dBA	6851	0	dBA	7161	0	dBA	7186	0	dBA	5055	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	5804	0	dBA	6829	0	dBA	7134	0	dBA	7156	0	dBA	5027	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	5952	0	dBA	6982	0	dBA	7290	0	dBA	7313	0	dBA	5183	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	5938	0	dBA	6961	0	dBA	7263	0	dBA	7284	0	dBA	5156	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	6085	0	dBA	7112	0	dBA	7417	0	dBA	7439	0	dBA	5310	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	6072	0	dBA	7092	0	dBA	7392	0	dBA	7411	0	dBA	5285	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	6218	0	dBA	7242	0	dBA	7545	0	dBA	7566	0	dBA	5438	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	6207	0	dBA	7223	0	dBA	7522	0	dBA	7540	0	dBA	5414	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	6352	0	dBA	7373	0	dBA	7674	0	dBA	7694	0	dBA	5567	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	6343	0	dBA	7356	0	dBA	7653	0	dBA	7669	0	dBA	5546	0	dBA

Point of Reception Description House 45		
Point of reception coordinates		
X	Y	Z <sup>(5)</sup>
366648	4909043	136.0

Point of Reception Description Vacant Lot Receptor 16		
Point of reception coordinates		
X	Y	Z <sup>(5)</sup>
367016	4910060	144.0

Point of Reception Description Vacant Lot Receptor 17		
Point of reception coordinates		
X	Y	Z <sup>(5)</sup>
367266	4910349	145.7

Point of Reception Description Vacant Lot Receptor 18		
X	Y	Z <sup>(5)</sup>
367411	4910357	147.1

Point of Reception Description House 46		
X	Z	Z <sup>(5)</sup>
367120	4908246	138.5

Source ID <sup>(1)</sup>	Source Description
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit

**Appendix H: Point of Reception Noise Impac**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID  
**POR065**

Point of Reception ID  
**POR066**

Point of Reception ID  
**POR067**

Point of Reception ID  
**POR068**

Point of Reception ID  
**POR069**

Point of Reception Description  
 House 47

Point of Reception Description  
 Vacant Lot Receptor 19

Point of Reception Description  
 House 48

Point of Reception Description  
 House 49

Point of Reception Description  
 House 50

X	Y	Z <sup>[3]</sup>
367056	4908173	138.5

X	Y	Z
367428	4908096	139.5

X	Y	Z
367336	4907996	137.2

X	Y	Z
367424	4907955	136.5

X	Y	Z
367640	4907903	134.5

Source ID <sup>[1]</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_U1	MVPP P7/9_U1
MVPP_P7_9_U2	MVPP P7/9_U2
MVPP_P7_9_U3	MVPP P7/9_U3
MVPP_P7_9_U4	MVPP P7/9_U4
MVPP_P11A_U1	MVPP P11A_U1
MVPP_P11A_U2	MVPP P11A_U2
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup>
3658	0	dBA
3646	0	dBA
3639	0	dBA
3387	0	dBA
3119	0	dBA
3057	0	dBA
3018	0	dBA
2992	0	dBA
2972	0	dBA
2960	0	dBA
2624	0	dBA
2567	0	dBA
2521	0	dBA
2478	0	dBA
2441	0	dBA
817	18	dBA
630	20	dBA
847	17	dBA
985	18	dBA
846	23	dBA
697	25	dBA
558	27	dBA
450	29	dBA
264	33	dBA
129	32	dBA
3120	0	dBA
3152	0	dBA
3206	0	dBA
3259	0	dBA
3319	0	dBA
3360	0	dBA
3413	0	dBA
1513	18	dBA
1445	18	dBA
1379	13	dBA
1320	13	dBA
1291	14	dBA
1256	14	dBA
1806	16	dBA
1734	17	dBA
1678	17	dBA
1612	17	dBA
1554	12	dBA
1501	12	dBA
1476	12	dBA
1446	13	dBA
1950	15	dBA
1874	16	dBA
1800	16	dBA
1740	11	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup>
3316	0	dBA
3310	0	dBA
3310	0	dBA
3076	0	dBA
2800	0	dBA
2730	0	dBA
2680	0	dBA
2646	0	dBA
2618	0	dBA
2600	0	dBA
2343	0	dBA
2274	0	dBA
2216	0	dBA
2161	0	dBA
2113	0	dBA
571	21	dBA
307	25	dBA
520	21	dBA
1124	21	dBA
991	22	dBA
852	24	dBA
725	25	dBA
718	25	dBA
588	27	dBA
509	21	dBA
2740	0	dBA
2773	0	dBA
2829	0	dBA
2879	0	dBA
2941	0	dBA
2984	0	dBA
3038	0	dBA
1170	21	dBA
1091	22	dBA
1015	16	dBA
945	16	dBA
913	17	dBA
876	17	dBA
1470	19	dBA
1388	19	dBA
1325	20	dBA
1249	20	dBA
1182	14	dBA
1123	15	dBA
1096	15	dBA
1066	15	dBA
1603	18	dBA
1517	18	dBA
1434	19	dBA
1367	13	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup>
3432	0	dBA
3429	0	dBA
3431	0	dBA
3203	0	dBA
2925	0	dBA
2852	0	dBA
2799	0	dBA
2762	0	dBA
2730	0	dBA
2707	0	dBA
2475	0	dBA
2405	0	dBA
2345	0	dBA
2287	0	dBA
2235	0	dBA
707	19	dBA
441	23	dBA
650	20	dBA
1194	20	dBA
1057	21	dBA
912	22	dBA
778	24	dBA
735	24	dBA
577	27	dBA
458	23	dBA
2806	0	dBA
2835	0	dBA
2884	0	dBA
2947	0	dBA
3000	0	dBA
3038	0	dBA
3088	0	dBA
1182	20	dBA
1114	21	dBA
1051	15	dBA
998	16	dBA
975	16	dBA
952	16	dBA
1476	18	dBA
1403	18	dBA
1347	19	dBA
1282	19	dBA
1228	14	dBA
1183	14	dBA
1164	14	dBA
1145	15	dBA
1619	17	dBA
1543	18	dBA
1472	18	dBA
1416	13	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup>
3360	0	dBA
3364	0	dBA
3143	0	dBA
2863	0	dBA
2787	0	dBA
2730	0	dBA
2690	0	dBA
2654	0	dBA
2628	0	dBA
2428	0	dBA
2353	0	dBA
2289	0	dBA
2227	0	dBA
2171	0	dBA
689	19	dBA
408	23	dBA
603	20	dBA
1256	19	dBA
1122	21	dBA
980	22	dBA
849	23	dBA
821	23	dBA
670	25	dBA
555	21	dBA
2711	0	dBA
2739	0	dBA
2787	0	dBA
2852	0	dBA
2904	0	dBA
2942	0	dBA
2991	0	dBA
1086	21	dBA
1017	21	dBA
954	16	dBA
901	17	dBA
880	17	dBA
861	17	dBA
1381	19	dBA
1307	19	dBA
1250	20	dBA
1185	20	dBA
1131	15	dBA
1087	15	dBA
1070	15	dBA
1054	15	dBA
1523	18	dBA
1446	18	dBA
1374	19	dBA
1319	13	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup>
3173	0	dBA
3178	0	dBA
3187	0	dBA
2980	0	dBA
2696	0	dBA
2613	0	dBA
2549	0	dBA
2502	0	dBA
2460	0	dBA
2429	0	dBA
2292	0	dBA
2209	0	dBA
2137	0	dBA
2065	0	dBA
2001	0	dBA
656	19	dBA
374	24	dBA
505	22	dBA
1382	19	dBA
1255	20	dBA
1121	21	dBA
1001	22	dBA
1005	22	dBA
871	23	dBA
772	18	dBA
2489	0	dBA
2517	0	dBA
2566	0	dBA
2630	0	dBA
2682	0	dBA
2720	0	dBA
2770	0	dBA
883	23	dBA
806	24	dBA
736	18	dBA
679	19	dBA
658	19	dBA
644	20	dBA
1183	20	dBA
1102	21	dBA
1040	21	dBA
969	22	dBA
911	17	dBA
865	17	dBA
849	17	dBA
838	17	dBA
1317	19	dBA
1234	20	dBA
1157	20	dBA
1098	15	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR065**

**Point of Reception ID**  
**POR066**

**Point of Reception ID**  
**POR067**

**Point of Reception ID**  
**POR068**

**Point of Reception ID**  
**POR069**

Point of Reception Description
House 47

Point of Reception Description
Vacant Lot Receptor 19

Point of Reception Description
House 48

Point of Reception Description
House 49

Point of Reception Description
House 50

X	Y	Z <sup>(3)</sup>
367056	4908173	138.5

X	Y	Z
367428	4908096	139.5

X	Y	Z
367336	4907996	137.2

X	Y	Z
367424	4907955	136.5

X	Y	Z
367640	4907903	134.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1690	11	dBA
1646	11	dBA
1620	12	dBA
1286	19	dBA
1218	20	dBA
1154	15	dBA
1120	15	dBA
1076	15	dBA
1011	16	dBA
946	16	dBA
884	17	dBA
1070	21	dBA
970	22	dBA
888	23	dBA
1011	21	dBA
1973	15	dBA
1878	10	dBA
1823	10	dBA
1768	11	dBA
2021	0	dBA
1969	10	dBA
2101	0	dBA
3465	0	dBA
3387	0	dBA
3325	0	dBA
3214	0	dBA
3175	0	dBA
3135	0	dBA
3098	0	dBA
3064	0	dBA
3026	0	dBA
3577	0	dBA
3499	0	dBA
3420	0	dBA
3347	0	dBA
3294	0	dBA
3302	0	dBA
3750	0	dBA
3686	0	dBA
3627	0	dBA
3572	0	dBA
3515	0	dBA
3470	0	dBA
3429	0	dBA
3738	0	dBA
3609	0	dBA
3591	0	dBA
2473	0	dBA
3303	0	dBA
3305	0	dBA
3307	0	dBA
3160	0	dBA
3162	0	dBA
3164	0	dBA
3021	0	dBA
3023	0	dBA
3025	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1311	13	dBA
1266	14	dBA
1240	14	dBA
947	23	dBA
865	24	dBA
788	18	dBA
747	18	dBA
696	19	dBA
663	19	dBA
581	20	dBA
505	22	dBA
844	24	dBA
728	25	dBA
630	26	dBA
719	25	dBA
2134	0	dBA
2055	0	dBA
2016	0	dBA
1980	10	dBA
2220	0	dBA
2184	0	dBA
2341	0	dBA
3632	0	dBA
3567	0	dBA
3517	0	dBA
3425	0	dBA
3394	0	dBA
3364	0	dBA
3336	0	dBA
3312	0	dBA
3286	0	dBA
3755	0	dBA
3690	0	dBA
3629	0	dBA
3571	0	dBA
3531	0	dBA
3557	0	dBA
3939	0	dBA
3886	0	dBA
3838	0	dBA
3794	0	dBA
3750	0	dBA
3716	0	dBA
3686	0	dBA
3882	0	dBA
3759	0	dBA
3719	0	dBA
2138	0	dBA
2964	0	dBA
2966	0	dBA
2968	0	dBA
2828	0	dBA
2830	0	dBA
2832	0	dBA
2698	0	dBA
2700	0	dBA
2702	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1372	13	dBA
1339	13	dBA
1325	13	dBA
955	22	dBA
887	23	dBA
827	17	dBA
798	18	dBA
766	18	dBA
680	19	dBA
620	20	dBA
578	21	dBA
780	24	dBA
670	25	dBA
579	27	dBA
690	25	dBA
1998	15	dBA
1919	10	dBA
1881	10	dBA
1846	10	dBA
2084	0	dBA
2049	0	dBA
2209	0	dBA
3496	0	dBA
3432	0	dBA
3381	0	dBA
3290	0	dBA
3260	0	dBA
3229	0	dBA
3203	0	dBA
3180	0	dBA
3154	0	dBA
3619	0	dBA
3554	0	dBA
3493	0	dBA
3437	0	dBA
3397	0	dBA
3425	0	dBA
3803	0	dBA
3750	0	dBA
3703	0	dBA
3660	0	dBA
3616	0	dBA
3583	0	dBA
3554	0	dBA
3747	0	dBA
3624	0	dBA
3585	0	dBA
2258	0	dBA
2973	0	dBA
2975	0	dBA
2977	0	dBA
2832	0	dBA
2834	0	dBA
2836	0	dBA
2695	0	dBA
2697	0	dBA
2699	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1277	14	dBA
1247	14	dBA
1236	14	dBA
859	23	dBA
790	24	dBA
729	19	dBA
701	19	dBA
674	19	dBA
583	20	dBA
523	21	dBA
488	22	dBA
710	25	dBA
596	26	dBA
501	28	dBA
603	26	dBA
2028	0	dBA
1953	10	dBA
1920	10	dBA
1890	10	dBA
2124	0	dBA
2093	0	dBA
2259	0	dBA
3523	0	dBA
3462	0	dBA
3415	0	dBA
3329	0	dBA
3301	0	dBA
3274	0	dBA
3250	0	dBA
3230	0	dBA
3208	0	dBA
3649	0	dBA
3588	0	dBA
3532	0	dBA
3480	0	dBA
3444	0	dBA
3477	0	dBA
3836	0	dBA
3786	0	dBA
3742	0	dBA
3702	0	dBA
3661	0	dBA
3632	0	dBA
3606	0	dBA
3767	0	dBA
3646	0	dBA
3601	0	dBA
2192	0	dBA
2878	0	dBA
2880	0	dBA
2882	0	dBA
2738	0	dBA
2740	0	dBA
2742	0	dBA
2602	0	dBA
2604	0	dBA
2606	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1055	15	dBA
1027	16	dBA
1021	16	dBA
660	25	dBA
580	26	dBA
510	22	dBA
479	22	dBA
456	23	dBA
377	24	dBA
302	26	dBA
276	27	dBA
623	26	dBA
503	28	dBA
402	30	dBA
455	29	dBA
2148	0	dBA
2084	0	dBA
2060	0	dBA
2040	0	dBA
2263	0	dBA
2242	0	dBA
2418	0	dBA
3634	0	dBA
3580	0	dBA
3540	0	dBA
3465	0	dBA
3442	0	dBA
3420	0	dBA
3401	0	dBA
3386	0	dBA
3371	0	dBA
3765	0	dBA
3712	0	dBA
3665	0	dBA
3622	0	dBA
3593	0	dBA
3636	0	dBA
3957	0	dBA
3913	0	dBA
3875	0	dBA
3842	0	dBA
3808	0	dBA
3785	0	dBA
3765	0	dBA
3864	0	dBA
3746	0	dBA
3689	0	dBA
2016	0	dBA
2678	0	dBA
2680	0	dBA
2682	0	dBA
2542	0	dBA
2544	0	dBA
2546	0	dBA
2411	0	dBA
2414	0	dBA
2415	0	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR065</b>			Point of Reception ID <b>POR066</b>			Point of Reception ID <b>POR067</b>			Point of Reception ID <b>POR068</b>			Point of Reception ID <b>POR069</b>		
		X	Y	Z <sup>(2)</sup>	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
		367056	4908173	138.5	367428	4908096	139.5	367336	4907996	137.2	367424	4907955	136.5	367640	4907903	134.5
		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
WB_H4T	Hut 4 Transformer	2848	0	dBA	2500	0	dBA	2517	0	dBA	2421	0	dBA	2215	0	dBA
WB_H4I1	Hut 4 Inverter 1	2850	0	dBA	2502	0	dBA	2519	0	dBA	2423	0	dBA	2217	0	dBA
WB_H4I2	Hut 4 Inverter 2	2852	0	dBA	2504	0	dBA	2521	0	dBA	2425	0	dBA	2219	0	dBA
WB_H5T	Hut 5 Transformer	3238	0	dBA	2878	0	dBA	2907	0	dBA	2810	0	dBA	2597	0	dBA
WB_H5I1	Hut 5 Inverter 1	3239	0	dBA	2879	0	dBA	2908	0	dBA	2811	0	dBA	2598	0	dBA
WB_H5I2	Hut 5 Inverter 2	3241	0	dBA	2881	0	dBA	2910	0	dBA	2813	0	dBA	2600	0	dBA
WB_H6T	Hut 6 Transformer	3231	0	dBA	2879	0	dBA	2899	0	dBA	2803	0	dBA	2595	0	dBA
WB_H6I1	Hut 6 Inverter 1	3232	0	dBA	2881	0	dBA	2901	0	dBA	2804	0	dBA	2596	0	dBA
WB_H6I2	Hut 6 Inverter 2	3234	0	dBA	2883	0	dBA	2903	0	dBA	2807	0	dBA	2598	0	dBA
WB_H7T	Hut 7 Transformer	3106	0	dBA	2749	0	dBA	2775	0	dBA	2678	0	dBA	2467	0	dBA
WB_H7I1	Hut 7 Inverter 1	3107	0	dBA	2751	0	dBA	2776	0	dBA	2679	0	dBA	2468	0	dBA
WB_H7I2	Hut 7 Inverter 2	3109	0	dBA	2753	0	dBA	2778	0	dBA	2681	0	dBA	2470	0	dBA
WB_H8T	Hut 8 Transformer	2981	0	dBA	2628	0	dBA	2650	0	dBA	2553	0	dBA	2344	0	dBA
WB_H8I1	Hut 8 Inverter 1	2982	0	dBA	2630	0	dBA	2651	0	dBA	2555	0	dBA	2346	0	dBA
WB_H8I2	Hut 8 Inverter 2	2984	0	dBA	2632	0	dBA	2653	0	dBA	2557	0	dBA	2348	0	dBA
WB_H9T	Hut 9 Transformer	2930	0	dBA	2593	0	dBA	2601	0	dBA	2506	0	dBA	2307	0	dBA
WB_H9I1	Hut 9 Inverter 1	2932	0	dBA	2595	0	dBA	2603	0	dBA	2508	0	dBA	2309	0	dBA
WB_H9I2	Hut 9 Inverter 2	2934	0	dBA	2597	0	dBA	2605	0	dBA	2510	0	dBA	2311	0	dBA
WB_H10T	Hut 10 Transformer	3156	0	dBA	2812	0	dBA	2825	0	dBA	2730	0	dBA	2526	0	dBA
WB_H10I1	Hut 10 Inverter 1	3157	0	dBA	2814	0	dBA	2827	0	dBA	2731	0	dBA	2528	0	dBA
WB_H10I2	Hut 10 Inverter 2	3160	0	dBA	2816	0	dBA	2829	0	dBA	2733	0	dBA	2530	0	dBA
WB_ST	Substation Transformer	3389	0	dBA	3055	0	dBA	3060	0	dBA	2966	0	dBA	2768	0	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	4799	0	dBA	4771	0	dBA	4658	0	dBA	4631	0	dBA	4622	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	4975	0	dBA	4953	0	dBA	4839	0	dBA	4814	0	dBA	4808	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	4948	0	dBA	4915	0	dBA	4803	0	dBA	4775	0	dBA	4762	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	5103	0	dBA	5076	0	dBA	4963	0	dBA	4936	0	dBA	4927	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	5078	0	dBA	5039	0	dBA	4928	0	dBA	4899	0	dBA	4883	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	5231	0	dBA	5198	0	dBA	5086	0	dBA	5058	0	dBA	5045	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	5207	0	dBA	5164	0	dBA	5054	0	dBA	5023	0	dBA	5004	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	5360	0	dBA	5322	0	dBA	5211	0	dBA	5182	0	dBA	5165	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	5338	0	dBA	5289	0	dBA	5181	0	dBA	5149	0	dBA	5126	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	5489	0	dBA	5446	0	dBA	5337	0	dBA	5306	0	dBA	5286	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	5470	0	dBA	5417	0	dBA	5309	0	dBA	5276	0	dBA	5250	0	dBA

**Appendix H: Point of Reception Noise Impac**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID										
<b>POR070</b>	<b>POR071</b>	<b>POR072</b>	<b>POR073</b>	<b>POR074</b>										
<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>										
House 51	House 52	House 53	House 54	House 55										
<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>			
367636	4907974	135.4	367669	4908129	135.5	367948	4908749	138.4	368275	4908124	136.5	368313	4908138	136.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_U1	MVPP P7/9_U1
MVPP_P7_9_U2	MVPP P7/9_U2
MVPP_P7_9_U3	MVPP P7/9_U3
MVPP_P7_9_U4	MVPP P7/9_U4
MVPP_P11A_U1	MVPP P11A_U1
MVPP_P11A_U2	MVPP P11A_U2
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
3153	0	dBA
3155	0	dBA
3162	0	dBA
2948	0	dBA
2666	0	dBA
2586	0	dBA
2526	0	dBA
2483	0	dBA
2444	0	dBA
2417	0	dBA
2249	0	dBA
2169	0	dBA
2100	0	dBA
2032	0	dBA
1972	10	dBA
588	20	dBA
304	26	dBA
447	23	dBA
1317	19	dBA
1190	20	dBA
1059	21	dBA
941	22	dBA
954	22	dBA
829	23	dBA
743	18	dBA
2508	0	dBA
2539	0	dBA
2592	0	dBA
2649	0	dBA
2706	0	dBA
2747	0	dBA
2800	0	dBA
934	22	dBA
852	23	dBA
773	18	dBA
706	19	dBA
678	19	dBA
651	20	dBA
1235	20	dBA
1150	20	dBA
1085	21	dBA
1008	22	dBA
942	16	dBA
887	17	dBA
865	17	dBA
844	17	dBA
1364	19	dBA
1276	19	dBA
1193	20	dBA
1128	15	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
3076	0	dBA
3072	0	dBA
3073	0	dBA
2846	0	dBA
2568	0	dBA
2494	0	dBA
2442	0	dBA
2406	0	dBA
2376	0	dBA
2357	0	dBA
2128	0	dBA
2053	0	dBA
1990	10	dBA
1930	10	dBA
1878	10	dBA
430	23	dBA
147	32	dBA
306	26	dBA
1195	20	dBA
1075	21	dBA
951	22	dBA
844	23	dBA
887	23	dBA
791	24	dBA
740	18	dBA
2518	0	dBA
2555	0	dBA
2617	0	dBA
2656	0	dBA
2724	0	dBA
2772	0	dBA
2832	0	dBA
1027	21	dBA
933	22	dBA
839	17	dBA
750	18	dBA
706	19	dBA
653	19	dBA
1329	19	dBA
1236	20	dBA
1162	20	dBA
1072	21	dBA
991	16	dBA
916	17	dBA
880	17	dBA
838	17	dBA
1444	18	dBA
1346	19	dBA
1249	20	dBA
1169	14	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
2684	0	dBA
2654	0	dBA
2634	0	dBA
2354	0	dBA
2099	0	dBA
2055	0	dBA
2040	0	dBA
2039	0	dBA
2049	0	dBA
2068	0	dBA
1568	17	dBA
1521	12	dBA
1488	12	dBA
1465	12	dBA
1455	12	dBA
263	27	dBA
546	21	dBA
409	23	dBA
978	18	dBA
923	19	dBA
885	19	dBA
871	19	dBA
1041	18	dBA
1079	21	dBA
1147	10	dBA
2525	0	dBA
2589	0	dBA
2686	0	dBA
2648	0	dBA
2761	0	dBA
2833	0	dBA
2921	0	dBA
1468	18	dBA
1352	19	dBA
1226	14	dBA
1091	15	dBA
1016	16	dBA
902	17	dBA
1744	16	dBA
1630	17	dBA
1536	18	dBA
1414	18	dBA
1293	14	dBA
1166	14	dBA
1095	15	dBA
991	16	dBA
1801	16	dBA
1673	17	dBA
1539	18	dBA
1415	13	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
2501	0	dBA
2507	0	dBA
2518	0	dBA
2325	0	dBA
2038	0	dBA
1948	5	dBA
1879	10	dBA
1830	10	dBA
1789	6	dBA
1761	6	dBA
1686	17	dBA
1587	12	dBA
1502	12	dBA
1418	13	dBA
1342	13	dBA
646	20	dBA
617	20	dBA
448	23	dBA
1596	17	dBA
1505	18	dBA
1416	18	dBA
1343	19	dBA
1439	18	dBA
1378	19	dBA
1345	13	dBA
1944	12	dBA
1991	15	dBA
2068	0	dBA
2079	0	dBA
2163	0	dBA
2221	0	dBA
2294	0	dBA
799	24	dBA
679	25	dBA
550	21	dBA
411	23	dBA
332	25	dBA
212	29	dBA
1053	21	dBA
936	22	dBA
839	23	dBA
713	25	dBA
590	20	dBA
461	22	dBA
390	24	dBA
293	26	dBA
1098	21	dBA
968	22	dBA
833	23	dBA
712	19	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
2460	0	dBA
2467	0	dBA
2478	0	dBA
2285	0	dBA
1998	10	dBA
1908	6	dBA
1839	10	dBA
1790	11	dBA
1748	6	dBA
1721	7	dBA
1651	17	dBA
1551	12	dBA
1464	12	dBA
1379	13	dBA
1302	13	dBA
667	19	dBA
651	20	dBA
475	22	dBA
1615	17	dBA
1527	18	dBA
1441	18	dBA
1371	19	dBA
1470	18	dBA
1412	18	dBA
1382	13	dBA
1915	12	dBA
1964	15	dBA
2042	0	dBA
2049	0	dBA
2135	0	dBA
2195	0	dBA
2269	0	dBA
813	23	dBA
693	25	dBA
564	21	dBA
425	23	dBA
347	25	dBA
229	28	dBA
1060	21	dBA
942	22	dBA
844	23	dBA
717	25	dBA
591	20	dBA
458	23	dBA
385	24	dBA
280	27	dBA
1098	21	dBA
966	22	dBA
829	23	dBA
704	19	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR070**

Point of Reception Description		
House 51		

X	Y	Z
367636	4907974	135.4

**Point of Reception ID**  
**POR071**

Point of Reception Description		
House 52		

X	Y	Z
367669	4908129	135.5

**Point of Reception ID**  
**POR072**

Point of Reception Description		
House 53		

X	Y	Z
367948	4908749	138.4

**Point of Reception ID**  
**POR073**

Point of Reception Description		
House 54		

X	Y	Z
368275	4908124	136.5

**Point of Reception ID**  
**POR074**

Point of Reception Description		
House 55		

X	Y	Z
368313	4908138	136.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1076	15	dBA
1039	15	dBA
1024	16	dBA
714	25	dBA
627	26	dBA
546	21	dBA
507	22	dBA
466	22	dBA
429	23	dBA
340	25	dBA
277	27	dBA
694	25	dBA
574	27	dBA
473	28	dBA
524	27	dBA
2192	0	dBA
2125	0	dBA
2098	0	dBA
2074	0	dBA
2301	0	dBA
2277	0	dBA
2450	0	dBA
3682	0	dBA
3626	0	dBA
3584	0	dBA
3505	0	dBA
3480	0	dBA
3457	0	dBA
3436	0	dBA
3419	0	dBA
3401	0	dBA
3811	0	dBA
3756	0	dBA
3706	0	dBA
3660	0	dBA
3628	0	dBA
3668	0	dBA
4001	0	dBA
3956	0	dBA
3916	0	dBA
3880	0	dBA
3845	0	dBA
3819	0	dBA
3797	0	dBA
3915	0	dBA
3796	0	dBA
3742	0	dBA
1990	24	dBA
2727	0	dBA
2729	0	dBA
2731	0	dBA
2593	0	dBA
2595	0	dBA
2597	0	dBA
2465	0	dBA
2468	0	dBA
2469	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1100	15	dBA
1041	15	dBA
1007	16	dBA
817	23	dBA
717	25	dBA
617	20	dBA
561	21	dBA
485	22	dBA
538	21	dBA
425	23	dBA
301	26	dBA
849	23	dBA
730	24	dBA
629	26	dBA
668	25	dBA
2323	0	dBA
2251	0	dBA
2219	0	dBA
2190	0	dBA
2423	0	dBA
2393	0	dBA
2559	0	dBA
3816	0	dBA
3757	0	dBA
3712	0	dBA
3628	0	dBA
3601	0	dBA
3574	0	dBA
3550	0	dBA
3529	0	dBA
3507	0	dBA
3944	0	dBA
3885	0	dBA
3830	0	dBA
3779	0	dBA
3743	0	dBA
3776	0	dBA
4132	0	dBA
4083	0	dBA
4040	0	dBA
4001	0	dBA
3961	0	dBA
3931	0	dBA
3905	0	dBA
4055	0	dBA
3935	0	dBA
3885	0	dBA
1901	25	dBA
2808	0	dBA
2811	0	dBA
2812	0	dBA
2680	0	dBA
2683	0	dBA
2685	0	dBA
2559	0	dBA
2562	0	dBA
2564	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1295	14	dBA
1170	14	dBA
1068	15	dBA
1315	19	dBA
1196	20	dBA
1067	15	dBA
988	16	dBA
861	17	dBA
1095	15	dBA
965	16	dBA
798	18	dBA
1500	18	dBA
1384	19	dBA
1286	19	dBA
1289	19	dBA
2968	0	dBA
2887	0	dBA
2845	0	dBA
2803	0	dBA
3047	0	dBA
3006	0	dBA
3152	0	dBA
4466	0	dBA
4400	0	dBA
4348	0	dBA
4251	0	dBA
4217	0	dBA
4182	0	dBA
4150	0	dBA
4120	0	dBA
4085	0	dBA
4588	0	dBA
4521	0	dBA
4455	0	dBA
4392	0	dBA
4345	0	dBA
4360	0	dBA
4771	0	dBA
4715	0	dBA
4664	0	dBA
4616	0	dBA
4565	0	dBA
4525	0	dBA
4488	0	dBA
4716	0	dBA
4593	0	dBA
4552	0	dBA
1502	28	dBA
3105	0	dBA
3108	0	dBA
3109	0	dBA
3007	0	dBA
3010	0	dBA
3011	0	dBA
2917	0	dBA
2920	0	dBA
2921	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
599	20	dBA
491	22	dBA
421	23	dBA
698	25	dBA
584	26	dBA
463	22	dBA
392	24	dBA
286	26	dBA
587	20	dBA
493	22	dBA
402	24	dBA
1053	21	dBA
963	22	dBA
892	23	dBA
818	23	dBA
2784	0	dBA
2729	0	dBA
2713	0	dBA
2700	0	dBA
2914	0	dBA
2900	0	dBA
3083	0	dBA
4249	0	dBA
4205	0	dBA
4172	0	dBA
4109	0	dBA
4090	0	dBA
4073	0	dBA
4059	0	dBA
4047	0	dBA
4036	0	dBA
4387	0	dBA
4343	0	dBA
4307	0	dBA
4272	0	dBA
4249	0	dBA
4299	0	dBA
4584	0	dBA
4548	0	dBA
4517	0	dBA
4489	0	dBA
4462	0	dBA
4444	0	dBA
4428	0	dBA
4458	0	dBA
4346	0	dBA
4272	0	dBA
1351	29	dBA
2405	0	dBA
2408	0	dBA
2409	0	dBA
2303	0	dBA
2306	0	dBA
2307	0	dBA
2211	0	dBA
2215	0	dBA
2216	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
586	20	dBA
472	22	dBA
394	24	dBA
721	25	dBA
609	26	dBA
491	22	dBA
423	23	dBA
321	25	dBA
621	20	dBA
530	21	dBA
442	23	dBA
1088	21	dBA
999	22	dBA
930	22	dBA
852	23	dBA
2823	0	dBA
2768	0	dBA
2753	0	dBA
2740	0	dBA
2954	0	dBA
2940	0	dBA
3124	0	dBA
4287	0	dBA
4244	0	dBA
4211	0	dBA
4148	0	dBA
4130	0	dBA
4113	0	dBA
4099	0	dBA
4087	0	dBA
4077	0	dBA
4425	0	dBA
4381	0	dBA
4346	0	dBA
4311	0	dBA
4289	0	dBA
4339	0	dBA
4622	0	dBA
4587	0	dBA
4556	0	dBA
4529	0	dBA
4502	0	dBA
4484	0	dBA
4468	0	dBA
4495	0	dBA
4383	0	dBA
4309	0	dBA
1311	29	dBA
2395	0	dBA
2398	0	dBA
2399	0	dBA
2295	0	dBA
2299	0	dBA
2300	0	dBA
2206	0	dBA
2210	0	dBA
2211	0	dBA

**Appendix H: Point of Reception Noise Impac**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID										
POR070	POR071	POR072	POR073	POR074										
Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description										
House 51	House 52	House 53	House 54	House 55										
X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z			
367636	4907974	135.4	367669	4908129	135.5	367948	4908749	138.4	368275	4908124	136.5	368313	4908138	136.5

Source ID <sup>(1)</sup>	Source Description
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2261	0	dBA
2263	0	dBA
2265	0	dBA
2637	0	dBA
2638	0	dBA
2640	0	dBA
2639	0	dBA
2641	0	dBA
2643	0	dBA
2508	0	dBA
2510	0	dBA
2512	0	dBA
2388	0	dBA
2390	0	dBA
2392	0	dBA
2357	0	dBA
2359	0	dBA
2361	0	dBA
2574	0	dBA
2576	0	dBA
2578	0	dBA
2819	0	dBA
4690	0	dBA
4876	0	dBA
4831	0	dBA
4995	0	dBA
4952	0	dBA
5114	0	dBA
5073	0	dBA
5234	0	dBA
5196	0	dBA
5355	0	dBA
5320	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2335	0	dBA
2337	0	dBA
2339	0	dBA
2695	0	dBA
2697	0	dBA
2699	0	dBA
2708	0	dBA
2710	0	dBA
2712	0	dBA
2572	0	dBA
2574	0	dBA
2575	0	dBA
2456	0	dBA
2458	0	dBA
2460	0	dBA
2440	0	dBA
2443	0	dBA
2445	0	dBA
2651	0	dBA
2653	0	dBA
2655	0	dBA
2904	0	dBA
4848	0	dBA
5034	0	dBA
4989	0	dBA
5153	0	dBA
5110	0	dBA
5272	0	dBA
5231	0	dBA
5392	0	dBA
5354	0	dBA
5514	0	dBA
5478	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2618	0	dBA
2621	0	dBA
2623	0	dBA
2900	0	dBA
2903	0	dBA
2904	0	dBA
2956	0	dBA
2959	0	dBA
2960	0	dBA
2801	0	dBA
2804	0	dBA
2805	0	dBA
2710	0	dBA
2713	0	dBA
2715	0	dBA
2759	0	dBA
2763	0	dBA
2764	0	dBA
2936	0	dBA
2939	0	dBA
2940	0	dBA
3213	0	dBA
5516	0	dBA
5703	0	dBA
5655	0	dBA
5820	0	dBA
5773	0	dBA
5937	0	dBA
5892	0	dBA
6055	0	dBA
6012	0	dBA
6174	0	dBA
6134	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1919	-7	dBA
1922	4	dBA
1923	4	dBA
2222	0	dBA
2224	0	dBA
2226	0	dBA
2266	0	dBA
2268	0	dBA
2270	0	dBA
2115	0	dBA
2117	0	dBA
2119	0	dBA
2017	0	dBA
2020	0	dBA
2022	0	dBA
2056	0	dBA
2059	0	dBA
2060	0	dBA
2237	0	dBA
2240	0	dBA
2242	0	dBA
2512	0	dBA
5008	0	dBA
5201	0	dBA
5140	0	dBA
5309	0	dBA
5250	0	dBA
5419	0	dBA
5362	0	dBA
5529	0	dBA
5475	0	dBA
5642	0	dBA
5590	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1908	-7	dBA
1912	4	dBA
1913	4	dBA
2205	0	dBA
2208	0	dBA
2209	0	dBA
2252	0	dBA
2255	0	dBA
2256	0	dBA
2100	0	dBA
2103	0	dBA
2104	0	dBA
2004	0	dBA
2007	0	dBA
2009	0	dBA
2048	0	dBA
2051	0	dBA
2053	0	dBA
2226	0	dBA
2229	0	dBA
2231	0	dBA
2503	0	dBA
5035	0	dBA
5227	0	dBA
5165	0	dBA
5335	0	dBA
5276	0	dBA
5444	0	dBA
5386	0	dBA
5554	0	dBA
5499	0	dBA
5666	0	dBA
5614	0	dBA



**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID										
<b>POR075</b>	<b>POR076</b>	<b>POR077</b>	<b>POR078</b>	<b>POR079</b>										
<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>										
Vacant Lot Receptor 20	House 56	House 57	House 58	Vacant Lot Receptor 21										
<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>			
368426	4908150	138.8	368477	4908346	137.5	368826	4908612	138.5	368762	4908115	135.8	368878	4908170	139.6

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_U1	MVPP P7/9_U1
MVPP_P7_9_U2	MVPP P7/9_U2
MVPP_P7_9_U3	MVPP P7/9_U3
MVPP_P7_9_U4	MVPP P7/9_U4
MVPP_P11A_U1	MVPP P11A_U1
MVPP_P11A_U2	MVPP P11A_U2
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
2351	0	dBA
2359	0	dBA
2372	0	dBA
2186	0	dBA
1898	6	dBA
1804	6	dBA
1732	11	dBA
1681	11	dBA
1637	12	dBA
1608	12	dBA
1571	18	dBA
1467	12	dBA
1375	13	dBA
1285	14	dBA
1203	14	dBA
753	18	dBA
759	18	dBA
574	20	dBA
1697	17	dBA
1613	18	dBA
1533	18	dBA
1468	19	dBA
1574	18	dBA
1521	18	dBA
1493	12	dBA
1817	17	dBA
1869	16	dBA
1952	16	dBA
1949	16	dBA
2041	0	dBA
2103	0	dBA
2182	0	dBA
833	24	dBA
716	25	dBA
590	20	dBA
457	22	dBA
383	24	dBA
277	26	dBA
1057	22	dBA
938	23	dBA
838	24	dBA
709	25	dBA
580	20	dBA
441	23	dBA
362	24	dBA
244	27	dBA
1076	22	dBA
940	23	dBA
797	24	dBA
665	19	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
2239	0	dBA
2237	0	dBA
2243	0	dBA
2035	0	dBA
1750	11	dBA
1667	7	dBA
1607	12	dBA
1569	12	dBA
1541	8	dBA
1528	8	dBA
1386	19	dBA
1288	14	dBA
1204	14	dBA
1123	15	dBA
1054	15	dBA
721	19	dBA
803	18	dBA
592	20	dBA
1633	17	dBA
1564	17	dBA
1500	18	dBA
1452	18	dBA
1580	17	dBA
1552	18	dBA
1549	12	dBA
1863	12	dBA
1925	12	dBA
2021	0	dBA
1988	11	dBA
2097	0	dBA
2168	0	dBA
2256	0	dBA
1034	21	dBA
917	22	dBA
792	18	dBA
658	19	dBA
584	20	dBA
475	22	dBA
1250	20	dBA
1130	20	dBA
1031	21	dBA
901	23	dBA
771	18	dBA
632	20	dBA
553	21	dBA
434	23	dBA
1257	19	dBA
1119	21	dBA
972	22	dBA
835	17	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
1835	12	dBA
1822	6	dBA
1820	6	dBA
1598	7	dBA
1316	13	dBA
1240	14	dBA
1193	10	dBA
1172	14	dBA
1167	14	dBA
1180	10	dBA
962	22	dBA
855	17	dBA
766	18	dBA
684	19	dBA
623	20	dBA
1045	15	dBA
1197	14	dBA
978	16	dBA
1849	16	dBA
1807	16	dBA
1774	16	dBA
1753	16	dBA
1908	16	dBA
1912	16	dBA
1934	10	dBA
1749	13	dBA
1830	12	dBA
1952	12	dBA
1855	12	dBA
1996	11	dBA
2086	0	dBA
2194	0	dBA
1386	19	dBA
1279	19	dBA
1164	14	dBA
1045	15	dBA
980	16	dBA
886	17	dBA
1549	18	dBA
1433	18	dBA
1338	19	dBA
1214	20	dBA
1091	15	dBA
962	16	dBA
889	17	dBA
782	18	dBA
1511	18	dBA
1373	19	dBA
1226	20	dBA
1089	15	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
2055	0	dBA
2074	0	dBA
2096	0	dBA
1946	5	dBA
1654	7	dBA
1546	8	dBA
1456	8	dBA
1390	9	dBA
1331	9	dBA
1290	9	dBA
1426	15	dBA
1305	9	dBA
1196	10	dBA
1083	11	dBA
978	12	dBA
1068	15	dBA
1097	15	dBA
906	17	dBA
1996	15	dBA
1922	16	dBA
1851	16	dBA
1794	16	dBA
1907	16	dBA
1858	16	dBA
1831	10	dBA
1501	14	dBA
1560	18	dBA
1654	17	dBA
1629	13	dBA
1732	17	dBA
1802	11	dBA
1890	10	dBA
910	22	dBA
812	23	dBA
712	19	dBA
618	20	dBA
572	21	dBA
519	21	dBA
1051	21	dBA
936	22	dBA
842	23	dBA
722	25	dBA
606	20	dBA
488	22	dBA
428	23	dBA
350	25	dBA
1011	21	dBA
872	23	dBA
725	24	dBA
588	20	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
1927	16	dBA
1946	10	dBA
1969	10	dBA
1824	11	dBA
1531	12	dBA
1421	13	dBA
1329	13	dBA
1262	14	dBA
1203	14	dBA
1164	15	dBA
1329	20	dBA
1204	14	dBA
1090	15	dBA
973	16	dBA
862	17	dBA
1156	15	dBA
1205	14	dBA
1008	16	dBA
2069	0	dBA
2001	0	dBA
1937	16	dBA
1886	16	dBA
2007	0	dBA
1966	16	dBA
1945	10	dBA
1430	19	dBA
1496	19	dBA
1599	18	dBA
1553	18	dBA
1667	18	dBA
1744	11	dBA
1838	10	dBA
1018	22	dBA
925	23	dBA
831	17	dBA
742	18	dBA
699	19	dBA
648	19	dBA
1137	21	dBA
1026	22	dBA
935	23	dBA
821	24	dBA
712	19	dBA
603	20	dBA
548	21	dBA
477	22	dBA
1080	22	dBA
944	23	dBA
800	24	dBA
668	19	dBA

**Appendix H: Point of Reception Noise Impac**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR075**

**Point of Reception Description**  
**Vacant Lot Receptor 20**

X	Y	Z
368426	4908150	138.8

**Point of Reception ID**  
**POR076**

**Point of Reception Description**  
**House 56**

X	Y	Z
368477	4908346	137.5

**Point of Reception ID**  
**POR077**

**Point of Reception Description**  
**House 57**

X	Y	Z
368826	4908612	138.5

**Point of Reception ID**  
**POR078**

**Point of Reception Description**  
**House 58**

X	Y	Z
368762	4908115	135.8

**Point of Reception ID**  
**POR079**

**Point of Reception Description**  
**Vacant Lot Receptor 21**

X	Y	Z
368878	4908170	139.6

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
536	21	dBA
405	23	dBA
307	25	dBA
771	25	dBA
666	26	dBA
558	21	dBA
498	22	dBA
413	23	dBA
706	19	dBA
626	20	dBA
551	21	dBA
1169	21	dBA
1086	22	dBA
1022	22	dBA
935	23	dBA
2922	0	dBA
2870	0	dBA
2856	0	dBA
2845	0	dBA
3057	0	dBA
3045	0	dBA
3230	0	dBA
4381	0	dBA
4339	0	dBA
4308	0	dBA
4248	0	dBA
4231	0	dBA
4215	0	dBA
4202	0	dBA
4192	0	dBA
4183	0	dBA
4519	0	dBA
4478	0	dBA
4445	0	dBA
4413	0	dBA
4392	0	dBA
4444	0	dBA
4718	0	dBA
4684	0	dBA
4655	0	dBA
4629	0	dBA
4605	0	dBA
4588	0	dBA
4574	0	dBA
4584	0	dBA
4474	0	dBA
4396	0	dBA
1209	31	dBA
2342	0	dBA
2345	0	dBA
2347	0	dBA
2249	0	dBA
2253	0	dBA
2254	0	dBA
2168	0	dBA
2172	0	dBA
2173	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
699	19	dBA
555	21	dBA
434	23	dBA
971	22	dBA
863	23	dBA
751	18	dBA
685	19	dBA
585	20	dBA
885	17	dBA
792	18	dBA
689	19	dBA
1352	19	dBA
1262	19	dBA
1192	20	dBA
1117	21	dBA
3078	0	dBA
3020	0	dBA
3001	0	dBA
2985	0	dBA
3204	0	dBA
3186	0	dBA
3365	0	dBA
4547	0	dBA
4502	0	dBA
4468	0	dBA
4401	0	dBA
4381	0	dBA
4362	0	dBA
4346	0	dBA
4332	0	dBA
4317	0	dBA
4684	0	dBA
4638	0	dBA
4600	0	dBA
4562	0	dBA
4536	0	dBA
4582	0	dBA
4880	0	dBA
4843	0	dBA
4810	0	dBA
4780	0	dBA
4751	0	dBA
4730	0	dBA
4711	0	dBA
4758	0	dBA
4645	0	dBA
4572	0	dBA
1070	32	dBA
2483	0	dBA
2487	0	dBA
2488	0	dBA
2400	0	dBA
2404	0	dBA
2405	0	dBA
2328	0	dBA
2332	0	dBA
2333	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
951	16	dBA
805	18	dBA
680	19	dBA
1367	19	dBA
1269	19	dBA
1168	14	dBA
1109	15	dBA
1019	16	dBA
1316	13	dBA
1229	14	dBA
1128	15	dBA
1780	16	dBA
1696	17	dBA
1628	17	dBA
1546	18	dBA
3517	0	dBA
3459	0	dBA
3439	0	dBA
3421	0	dBA
3642	0	dBA
3623	0	dBA
3800	0	dBA
4985	0	dBA
4941	0	dBA
4907	0	dBA
4840	0	dBA
4820	0	dBA
4800	0	dBA
4783	0	dBA
4767	0	dBA
4751	0	dBA
5122	0	dBA
5078	0	dBA
5039	0	dBA
5001	0	dBA
4974	0	dBA
5017	0	dBA
5319	0	dBA
5282	0	dBA
5249	0	dBA
5219	0	dBA
5189	0	dBA
5167	0	dBA
5147	0	dBA
5193	0	dBA
5082	0	dBA
5006	0	dBA
649	37	dBA
2583	0	dBA
2587	0	dBA
2587	0	dBA
2528	0	dBA
2528	0	dBA
2532	0	dBA
2533	0	dBA
2485	0	dBA
2489	0	dBA
2490	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
451	23	dBA
308	26	dBA
192	30	dBA
931	22	dBA
854	23	dBA
781	18	dBA
744	18	dBA
699	19	dBA
957	16	dBA
906	17	dBA
866	17	dBA
1395	19	dBA
1330	19	dBA
1282	19	dBA
1172	20	dBA
3187	0	dBA
3143	0	dBA
3136	0	dBA
3132	0	dBA
3334	0	dBA
3329	0	dBA
3522	0	dBA
4622	0	dBA
4588	0	dBA
4564	0	dBA
4514	0	dBA
4502	0	dBA
4491	0	dBA
4483	0	dBA
4477	0	dBA
4473	0	dBA
4765	0	dBA
4732	0	dBA
4708	0	dBA
4684	0	dBA
4670	0	dBA
4730	0	dBA
4967	0	dBA
4940	0	dBA
4917	0	dBA
4898	0	dBA
4880	0	dBA
4869	0	dBA
4860	0	dBA
4809	0	dBA
4704	0	dBA
4614	0	dBA
965	33	dBA
2147	0	dBA
2151	0	dBA
2152	0	dBA
2076	0	dBA
2079	0	dBA
2080	0	dBA
2018	0	dBA
2022	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
538	21	dBA
407	23	dBA
308	25	dBA
1052	22	dBA
978	23	dBA
908	17	dBA
872	17	dBA
827	17	dBA
1085	15	dBA
1034	16	dBA
990	16	dBA
1521	18	dBA
1457	19	dBA
1411	19	dBA
1299	20	dBA
3314	0	dBA
3271	0	dBA
3264	0	dBA
3261	0	dBA
3462	0	dBA
3457	0	dBA
3650	0	dBA
4748	0	dBA
4715	0	dBA
4691	0	dBA
4642	0	dBA
4630	0	dBA
4619	0	dBA
4611	0	dBA
4605	0	dBA
4602	0	dBA
4891	0	dBA
4859	0	dBA
4836	0	dBA
4812	0	dBA
4798	0	dBA
4859	0	dBA
5094	0	dBA
5067	0	dBA
5045	0	dBA
5025	0	dBA
5008	0	dBA
4997	0	dBA
4988	0	dBA
4933	0	dBA
4828	0	dBA
4737	0	dBA
845	35	dBA
2151	0	dBA
2155	0	dBA
2156	0	dBA
2089	0	dBA
2094	0	dBA
2094	0	dBA
2042	0	dBA
2046	0	dBA
2047	0	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID <b>POR075</b>	Point of Reception ID <b>POR076</b>	Point of Reception ID <b>POR077</b>	Point of Reception ID <b>POR078</b>	Point of Reception ID <b>POR079</b>
<b>Point of Reception Description</b> Vacant Lot Receptor 20	<b>Point of Reception Description</b> House 56	<b>Point of Reception Description</b> House 57	<b>Point of Reception Description</b> House 58	<b>Point of Reception Description</b> Vacant Lot Receptor 21
<b>X</b> <b>Y</b> <b>Z</b>	<b>X</b> <b>Y</b> <b>Z</b>	<b>X</b> <b>Y</b> <b>Z</b>	<b>X</b> <b>Y</b> <b>Z</b>	<b>X</b> <b>Y</b> <b>Z</b>
368426    4908150    138.8	368477    4908346    137.5	368826    4908612    138.5	368762    4908115    135.8	368878    4908170    139.6

Source ID <sup>(1)</sup>	Source Description
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
1856	-5	dBA
1859	6	dBA
1860	6	dBA
2136	0	dBA
2138	0	dBA
2140	0	dBA
2190	0	dBA
2193	0	dBA
2195	0	dBA
2035	0	dBA
2038	0	dBA
2040	0	dBA
1945	-5	dBA
1948	6	dBA
1950	6	dBA
2002	0	dBA
2006	0	dBA
2007	0	dBA
2172	0	dBA
2175	0	dBA
2177	0	dBA
2452	0	dBA
5084	0	dBA
5278	0	dBA
5213	0	dBA
5384	0	dBA
5322	0	dBA
5491	0	dBA
5431	0	dBA
5600	0	dBA
5542	0	dBA
5709	0	dBA
5655	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
1999	-8	dBA
2002	0	dBA
2003	0	dBA
2251	0	dBA
2254	0	dBA
2255	0	dBA
2318	0	dBA
2322	0	dBA
2323	0	dBA
2159	0	dBA
2162	0	dBA
2164	0	dBA
2078	0	dBA
2081	0	dBA
2083	0	dBA
2153	0	dBA
2157	0	dBA
2158	0	dBA
2312	0	dBA
2315	0	dBA
2316	0	dBA
2596	0	dBA
5285	0	dBA
5479	0	dBA
5415	0	dBA
5585	0	dBA
5523	0	dBA
5693	0	dBA
5633	0	dBA
5801	0	dBA
5744	0	dBA
5911	0	dBA
5857	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
2114	0	dBA
2118	0	dBA
2119	0	dBA
2285	0	dBA
2289	0	dBA
2290	0	dBA
2385	0	dBA
2389	0	dBA
2390	0	dBA
2219	0	dBA
2223	0	dBA
2224	0	dBA
2164	0	dBA
2168	0	dBA
2169	0	dBA
2289	0	dBA
2293	0	dBA
2294	0	dBA
2409	0	dBA
2413	0	dBA
2414	0	dBA
2701	0	dBA
5662	0	dBA
5857	0	dBA
5787	0	dBA
5959	0	dBA
5892	0	dBA
6062	0	dBA
5997	0	dBA
6167	0	dBA
6104	0	dBA
6273	0	dBA
6213	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
1667	-6	dBA
1671	6	dBA
1672	6	dBA
1895	-7	dBA
1898	4	dBA
1899	4	dBA
1971	-8	dBA
1974	3	dBA
1976	3	dBA
1809	-7	dBA
1812	4	dBA
1814	4	dBA
1736	-6	dBA
1739	5	dBA
1740	5	dBA
1831	-7	dBA
1836	4	dBA
1836	4	dBA
1974	-8	dBA
1978	3	dBA
1979	3	dBA
2263	0	dBA
5180	0	dBA
5376	0	dBA
5303	0	dBA
5476	0	dBA
5405	0	dBA
5577	0	dBA
5509	0	dBA
5680	0	dBA
5614	0	dBA
5784	0	dBA
5721	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
1677	-3	dBA
1681	8	dBA
1682	8	dBA
1875	-5	dBA
1879	6	dBA
1880	6	dBA
1963	-5	dBA
1967	6	dBA
1968	6	dBA
1799	-4	dBA
1802	7	dBA
1804	7	dBA
1735	-4	dBA
1739	7	dBA
1740	7	dBA
1848	-4	dBA
1853	6	dBA
1853	6	dBA
1978	-5	dBA
1982	6	dBA
1983	6	dBA
2269	0	dBA
5279	0	dBA
5475	0	dBA
5400	0	dBA
5573	0	dBA
5501	0	dBA
5673	0	dBA
5602	0	dBA
5774	0	dBA
5706	0	dBA
5877	0	dBA
5812	0	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID										
<b>POR080</b>	<b>POR081</b>	<b>POR082</b>	<b>POR083</b>	<b>POR084</b>										
<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>										
Vacant Lot Receptor 22 (WB V18)	Vacant Lot Receptor 23 (WB V11)	House 59	Vacant Lot Receptor 24	House 60										
<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>			
369098	4908093	139.5	369215	4908086	139.1	367411	4908338	136.5	369605	4908239	138.5	369758	4908368	135.2

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_1_U1	MVPP P2/1_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U1	MVPP P11A_U1
MVPP_P11A_U2	MVPP P11A_U2
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
1767	17	dBA
1799	11	dBA
1834	11	dBA
1729	11	dBA
1438	13	dBA
1314	13	dBA
1203	14	dBA
1118	15	dBA
1039	15	dBA
981	16	dBA
1339	20	dBA
1204	14	dBA
1081	15	dBA
950	16	dBA
821	17	dBA
1390	13	dBA
1433	13	dBA
1239	14	dBA
2300	0	dBA
2233	0	dBA
2170	0	dBA
2119	0	dBA
2239	0	dBA
2194	0	dBA
2168	0	dBA
1205	21	dBA
1275	20	dBA
1385	19	dBA
1324	20	dBA
1445	19	dBA
1526	12	dBA
1626	12	dBA
1101	21	dBA
1025	22	dBA
954	16	dBA
891	17	dBA
863	17	dBA
834	17	dBA
1160	21	dBA
1061	22	dBA
983	23	dBA
887	23	dBA
800	18	dBA
722	19	dBA
686	19	dBA
647	19	dBA
1068	22	dBA
943	23	dBA
814	24	dBA
702	19	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
1672	18	dBA
1709	11	dBA
1748	11	dBA
1662	11	dBA
1375	13	dBA
1245	14	dBA
1126	15	dBA
1032	16	dBA
945	16	dBA
879	17	dBA
1328	20	dBA
1190	14	dBA
1063	15	dBA
927	16	dBA
792	16	dBA
1503	12	dBA
1550	12	dBA
1355	13	dBA
2407	0	dBA
2343	0	dBA
2282	0	dBA
2233	0	dBA
2354	0	dBA
2311	0	dBA
2285	0	dBA
1108	21	dBA
1183	21	dBA
1299	20	dBA
1223	20	dBA
1351	20	dBA
1437	13	dBA
1541	12	dBA
1183	21	dBA
1114	21	dBA
1050	15	dBA
995	16	dBA
971	16	dBA
947	16	dBA
1218	21	dBA
1125	21	dBA
1053	22	dBA
965	23	dBA
888	17	dBA
820	17	dBA
790	18	dBA
758	18	dBA
1111	21	dBA
993	22	dBA
874	24	dBA
773	18	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
3276	18	dBA
3260	13	dBA
3252	12	dBA
2996	9	dBA
2729	15	dBA
2669	16	dBA
2634	17	dBA
2612	18	dBA
2598	19	dBA
2592	19	dBA
2232	21	dBA
2175	16	dBA
2129	17	dBA
2088	18	dBA
2055	21	dBA
425	7	dBA
273	7	dBA
474	8	dBA
892	0	dBA
763	0	dBA
631	0	dBA
515	0	dBA
559	0	dBA
489	0	dBA
494	0	dBA
2828	20	dBA
2870	19	dBA
2937	18	dBA
2965	19	dBA
3040	18	dBA
3091	12	dBA
3155	11	dBA
1353	18	dBA
1263	19	dBA
1171	9	dBA
1080	10	dBA
1034	10	dBA
972	14	dBA
1655	18	dBA
1565	18	dBA
1493	19	dBA
1404	20	dBA
1321	14	dBA
1242	11	dBA
1202	11	dBA
1149	12	dBA
1775	18	dBA
1677	19	dBA
1580	20	dBA
1498	15	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
1264	20	dBA
1311	13	dBA
1360	13	dBA
1327	13	dBA
1054	15	dBA
911	17	dBA
770	18	dBA
655	19	dBA
546	21	dBA
464	22	dBA
1188	21	dBA
1050	11	dBA
923	14	dBA
786	14	dBA
651	16	dBA
1847	10	dBA
1928	10	dBA
1723	11	dBA
2706	0	dBA
2656	0	dBA
2611	0	dBA
2575	0	dBA
2711	0	dBA
2684	0	dBA
2672	0	dBA
973	23	dBA
1072	22	dBA
1218	21	dBA
1050	22	dBA
1220	21	dBA
1327	13	dBA
1453	13	dBA
1586	18	dBA
1524	18	dBA
1466	12	dBA
1413	13	dBA
1389	13	dBA
1361	13	dBA
1586	18	dBA
1505	19	dBA
1441	19	dBA
1366	19	dBA
1299	14	dBA
1238	14	dBA
1209	14	dBA
1174	14	dBA
1456	19	dBA
1354	20	dBA
1252	20	dBA
1167	14	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
1064	21	dBA
1110	15	dBA
1161	14	dBA
1145	10	dBA
883	17	dBA
735	18	dBA
587	20	dBA
464	22	dBA
346	25	dBA
267	27	dBA
1106	21	dBA
973	16	dBA
853	17	dBA
727	19	dBA
607	17	dBA
1983	5	dBA
2083	0	dBA
1873	6	dBA
2812	0	dBA
2770	0	dBA
2733	0	dBA
2706	0	dBA
2850	0	dBA
2832	0	dBA
2829	0	dBA
1031	21	dBA
1137	20	dBA
1290	19	dBA
1084	21	dBA
1269	19	dBA
1382	13	dBA
1515	12	dBA
1785	16	dBA
1723	17	dBA
1662	7	dBA
1605	7	dBA
1578	7	dBA
1543	8	dBA
1785	16	dBA
1705	17	dBA
1642	17	dBA
1566	17	dBA
1497	12	dBA
1432	8	dBA
1401	8	dBA
1360	9	dBA
1653	17	dBA
1553	18	dBA
1453	18	dBA
1367	13	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR080</b>			Point of Reception ID <b>POR081</b>			Point of Reception ID <b>POR082</b>			Point of Reception ID <b>POR083</b>			Point of Reception ID <b>POR084</b>		
		Point of Reception Description Vacant Lot Receptor 22 (WB V18)			Point of Reception Description Vacant Lot Receptor 23 (WB V11)			Point of Reception Description House 59			Point of Reception Description Vacant Lot Receptor 24			Point of Reception Description House 60		
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
		369098	4908093	139.5	369215	4908086	139.1	367411	4908338	136.5	369605	4908239	138.5	369758	4908368	135.2
		37														
		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
MVPP_P14A_U19	MVPP P14A_U19	600	20	dBA	684	19	dBA	1423	16	dBA	1093	15	dBA	1291	14	dBA
MVPP_P14A_U20	MVPP P14A_U20	511	21	dBA	610	20	dBA	1355	13	dBA	1028	16	dBA	1222	10	dBA
MVPP_P14A_U21	MVPP P14A_U21	460	22	dBA	571	21	dBA	1307	13	dBA	987	16	dBA	1174	10	dBA
MVPP_P14B_U1	MVPP P14B_U1	1178	21	dBA	1273	20	dBA	1138	14	dBA	1688	17	dBA	1885	12	dBA
MVPP_P14B_U2	MVPP P14B_U2	1121	21	dBA	1222	20	dBA	1043	14	dBA	1640	18	dBA	1834	12	dBA
MVPP_P14B_U3	MVPP P14B_U3	1071	15	dBA	1178	14	dBA	947	8	dBA	1596	12	dBA	1786	6	dBA
MVPP_P14B_U4	MVPP P14B_U4	1047	15	dBA	1157	15	dBA	893	9	dBA	1574	12	dBA	1761	6	dBA
MVPP_P14B_U5	MVPP P14B_U5	1020	16	dBA	1134	15	dBA	813	13	dBA	1546	12	dBA	1726	7	dBA
MVPP_P14B_U6	MVPP P14B_U6	1254	14	dBA	1362	13	dBA	854	7	dBA	1780	11	dBA	1969	5	dBA
MVPP_P14B_U7	MVPP P14B_U7	1220	14	dBA	1332	13	dBA	751	12	dBA	1747	11	dBA	1931	6	dBA
MVPP_P14B_U8	MVPP P14B_U8	1195	14	dBA	1310	13	dBA	632	8	dBA	1717	11	dBA	1893	6	dBA
MVPP_P14C_U1	MVPP P14C_U1	1665	18	dBA	1765	17	dBA	1083	0	dBA	2182	0	dBA	2377	0	dBA
MVPP_P14C_U2	MVPP P14C_U2	1614	18	dBA	1717	17	dBA	966	15	dBA	2136	0	dBA	2328	0	dBA
MVPP_P14C_U3	MVPP P14C_U3	1578	18	dBA	1684	17	dBA	867	12	dBA	2102	0	dBA	2292	0	dBA
MVPP_P14C_U4	MVPP P14C_U4	1455	19	dBA	1559	18	dBA	943	12	dBA	1977	16	dBA	2170	0	dBA
MVPP_P19_20_U1	MVPP P19/20_U1	3470	0	dBA	3571	0	dBA	2311	0	dBA	3988	0	dBA	4183	0	dBA
MVPP_P19_U1	MVPP P19_U1	3433	0	dBA	3536	0	dBA	2224	0	dBA	3954	0	dBA	4147	0	dBA
MVPP_P19_U2	MVPP P19_U2	3431	0	dBA	3536	0	dBA	2177	0	dBA	3954	0	dBA	4146	0	dBA
MVPP_P19_U3	MVPP P19_U3	3434	0	dBA	3540	0	dBA	2131	0	dBA	3959	0	dBA	4149	0	dBA
MVPP_P19_U4	MVPP P19_U4	3628	0	dBA	3731	0	dBA	2379	0	dBA	4150	0	dBA	4342	0	dBA
MVPP_P19_U5	MVPP P19_U5	3628	0	dBA	3733	0	dBA	2333	0	dBA	4152	0	dBA	4343	0	dBA
MVPP_P20_U1	MVPP P20_U1	3826	0	dBA	3933	0	dBA	2476	0	dBA	4351	0	dBA	4540	0	dBA
MVPP_P21_U1	MVPP P21_U1	4882	0	dBA	4975	0	dBA	3809	0	dBA	5385	0	dBA	5584	0	dBA
MVPP_P21_U2	MVPP P21_U2	4855	0	dBA	4950	0	dBA	3738	0	dBA	5362	0	dBA	5560	0	dBA
MVPP_P21_U3	MVPP P21_U3	4836	0	dBA	4933	0	dBA	3682	0	dBA	5347	0	dBA	5544	0	dBA
MVPP_P21_U4	MVPP P21_U4	4795	0	dBA	4895	0	dBA	3579	0	dBA	5311	0	dBA	5507	0	dBA
MVPP_P21_U5	MVPP P21_U5	4787	0	dBA	4888	0	dBA	3544	0	dBA	5305	0	dBA	5500	0	dBA
MVPP_P21_U6	MVPP P21_U6	4780	0	dBA	4882	0	dBA	3508	0	dBA	5300	0	dBA	5494	0	dBA
MVPP_P21_U7	MVPP P21_U7	4776	0	dBA	4879	0	dBA	3474	0	dBA	5297	0	dBA	5490	0	dBA
MVPP_P21_U8	MVPP P21_U8	4774	0	dBA	4878	0	dBA	3444	0	dBA	5297	0	dBA	5489	0	dBA
MVPP_P21_U9	MVPP P21_U9	4775	0	dBA	4881	0	dBA	3409	0	dBA	5300	0	dBA	5490	0	dBA
MVPP_P22_U1	MVPP P22_U1	5029	0	dBA	5123	0	dBA	3927	0	dBA	5534	0	dBA	5733	0	dBA
MVPP_P22_U2	MVPP P22_U2	5002	0	dBA	5098	0	dBA	3855	0	dBA	5512	0	dBA	5709	0	dBA
MVPP_P22_U3	MVPP P22_U3	4987	0	dBA	5085	0	dBA	3785	0	dBA	5501	0	dBA	5697	0	dBA
MVPP_P22_U4	MVPP P22_U4	4969	0	dBA	5070	0	dBA	3718	0	dBA	5487	0	dBA	5682	0	dBA
MVPP_P22_U5	MVPP P22_U5	4960	0	dBA	5063	0	dBA	3670	0	dBA	5481	0	dBA	5674	0	dBA
MVPP_P22_U6	MVPP P22_U6	5028	0	dBA	5133	0	dBA	3684	0	dBA	5551	0	dBA	5743	0	dBA
MVPP_P23_U1	MVPP P23_U1	5234	0	dBA	5329	0	dBA	4105	0	dBA	5740	0	dBA	5939	0	dBA
MVPP_P23_U2	MVPP P23_U2	5212	0	dBA	5308	0	dBA	4047	0	dBA	5722	0	dBA	5920	0	dBA
MVPP_P23_U3	MVPP P23_U3	5195	0	dBA	5293	0	dBA	3993	0	dBA	5708	0	dBA	5905	0	dBA
MVPP_P23_U4	MVPP P23_U4	5180	0	dBA	5280	0	dBA	3943	0	dBA	5696	0	dBA	5892	0	dBA
MVPP_P23_U5	MVPP P23_U5	5168	0	dBA	5270	0	dBA	3890	0	dBA	5687	0	dBA	5882	0	dBA
MVPP_P23_U6	MVPP P23_U6	5162	0	dBA	5265	0	dBA	3849	0	dBA	5683	0	dBA	5876	0	dBA
MVPP_P23_U7	MVPP P23_U7	5158	0	dBA	5262	0	dBA	3812	0	dBA	5681	0	dBA	5873	0	dBA
MVPP_P24_U1	MVPP P24_U1	5055	0	dBA	5144	0	dBA	4069	0	dBA	5548	0	dBA	5748	0	dBA
MVPP_P24_U2	MVPP P24_U2	4954	0	dBA	5043	0	dBA	3944	0	dBA	5449	0	dBA	5649	0	dBA
MVPP_P24_U3	MVPP P24_U3	4854	0	dBA	4941	0	dBA	3913	0	dBA	5343	0	dBA	5543	0	dBA
TS	Transformer Station	782	35	dBA	744	36	dBA	2089	38	dBA	575	38	dBA	525	38	dBA
WB_H1T	Hut 1 Transformer	2004	0	dBA	1966	-5	dBA	3139	0	dBA	2063	0	dBA	2192	0	dBA
WB_H1I1	Hut 1 Inverter 1	2009	0	dBA	1970	6	dBA	3141	0	dBA	2068	0	dBA	2196	0	dBA
WB_H1I2	Hut 1 Inverter 2	2009	0	dBA	1971	6	dBA	3143	0	dBA	2068	0	dBA	2196	0	dBA
WB_H2T	Hut 2 Transformer	1959	-5	dBA	1931	-5	dBA	3010	0	dBA	2064	0	dBA	2205	0	dBA
WB_H2I1	Hut 2 Inverter 1	1963	6	dBA	1935	6	dBA	3012	0	dBA	2069	0	dBA	2210	0	dBA
WB_H2I2	Hut 2 Inverter 2	1963	6	dBA	1935	6	dBA	3014	0	dBA	2069	0	dBA	2209	0	dBA
WB_H3T	Hut 3 Transformer	1929	-5	dBA	1912	-5	dBA	2886	0	dBA	2081	0	dBA	2233	0	dBA
WB_H3I1	Hut 3 Inverter 1	1933	6	dBA	1916	6	dBA	2889	0	dBA	2085	0	dBA	2238	0	dBA
WB_H3I2	Hut 3 Inverter 2	1934	6	dBA	1916	6	dBA	2890	0	dBA	2085	0	dBA	2237	0	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR080</b>			Point of Reception ID <b>POR081</b>			Point of Reception ID <b>POR082</b>			Point of Reception ID <b>POR083</b>			Point of Reception ID <b>POR084</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
<b>Point of Reception Description</b> Vacant Lot Receptor 22 (WB V18)		<b>Point of Reception Description</b> Vacant Lot Receptor 23 (WB V11)			<b>Point of Reception Description</b> House 59			<b>Point of Reception Description</b> Vacant Lot Receptor 24			<b>Point of Reception Description</b> House 60					
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
		369098	4908093	139.5	369215	4908086	139.1	367411	4908338	136.5	369605	4908239	138.5	369758	4908368	135.2
WB_H4T	Hut 4 Transformer	1544	-2	dBA	1517	-2	dBA	2667	-6	dBA	1667	-3	dBA	1818	-7	dBA
WB_H4I1	Hut 4 Inverter 1	1549	9	dBA	1522	9	dBA	2669	5	dBA	1672	8	dBA	1822	4	dBA
WB_H4I2	Hut 4 Inverter 2	1549	9	dBA	1522	9	dBA	2671	5	dBA	1672	8	dBA	1822	4	dBA
WB_H5T	Hut 5 Transformer	1699	-3	dBA	1642	-3	dBA	3026	-7	dBA	1679	-3	dBA	1789	-6	dBA
WB_H5I1	Hut 5 Inverter 1	1703	8	dBA	1646	8	dBA	3028	4	dBA	1683	8	dBA	1794	5	dBA
WB_H5I2	Hut 5 Inverter 2	1704	8	dBA	1647	8	dBA	3030	4	dBA	1683	8	dBA	1794	5	dBA
WB_H6T	Hut 6 Transformer	1802	-4	dBA	1755	-4	dBA	3040	-8	dBA	1825	-4	dBA	1947	-8	dBA
WB_H6I1	Hut 6 Inverter 1	1806	7	dBA	1759	7	dBA	3042	3	dBA	1830	7	dBA	1951	4	dBA
WB_H6I2	Hut 6 Inverter 2	1807	7	dBA	1760	7	dBA	3044	3	dBA	1830	7	dBA	1951	4	dBA
WB_H7T	Hut 7 Transformer	1635	-3	dBA	1587	-3	dBA	2903	-6	dBA	1661	-3	dBA	1786	-6	dBA
WB_H7I1	Hut 7 Inverter 1	1639	8	dBA	1591	8	dBA	2905	5	dBA	1665	8	dBA	1791	5	dBA
WB_H7I2	Hut 7 Inverter 2	1640	8	dBA	1592	8	dBA	2907	5	dBA	1666	8	dBA	1791	5	dBA
WB_H8T	Hut 8 Transformer	1585	-3	dBA	1546	-2	dBA	2788	-6	dBA	1657	-3	dBA	1795	-7	dBA
WB_H8I1	Hut 8 Inverter 1	1589	8	dBA	1551	9	dBA	2790	5	dBA	1662	8	dBA	1800	5	dBA
WB_H8I2	Hut 8 Inverter 2	1590	8	dBA	1551	9	dBA	2792	5	dBA	1661	8	dBA	1799	5	dBA
WB_H9T	Hut 9 Transformer	1725	-4	dBA	1702	-3	dBA	2770	-8	dBA	1860	-5	dBA	2011	0	dBA
WB_H9I1	Hut 9 Inverter 1	1729	7	dBA	1707	7	dBA	2773	4	dBA	1865	6	dBA	2016	0	dBA
WB_H9I2	Hut 9 Inverter 2	1730	7	dBA	1707	7	dBA	2775	4	dBA	1865	6	dBA	2016	0	dBA
WB_H10T	Hut 10 Transformer	1832	-4	dBA	1795	-4	dBA	2982	0	dBA	1901	-5	dBA	2034	0	dBA
WB_H10I1	Hut 10 Inverter 1	1836	7	dBA	1799	7	dBA	2984	0	dBA	1905	6	dBA	2039	0	dBA
WB_H10I2	Hut 10 Inverter 2	1837	7	dBA	1799	7	dBA	2986	0	dBA	1905	6	dBA	2039	0	dBA
WB_ST	Substation Transformer	2124	0	dBA	2087	0	dBA	3234	0	dBA	2184	0	dBA	2312	0	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	5308	0	dBA	5357	0	dBA	5007	0	dBA	5685	0	dBA	5876	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	5505	0	dBA	5554	0	dBA	5188	0	dBA	5883	0	dBA	6074	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	5425	0	dBA	5471	0	dBA	5151	0	dBA	5794	0	dBA	5984	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	5599	0	dBA	5646	0	dBA	5312	0	dBA	5969	0	dBA	6158	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	5521	0	dBA	5565	0	dBA	5277	0	dBA	5883	0	dBA	6071	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	5694	0	dBA	5739	0	dBA	5435	0	dBA	6057	0	dBA	6245	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	5618	0	dBA	5660	0	dBA	5402	0	dBA	5973	0	dBA	6159	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	5791	0	dBA	5834	0	dBA	5559	0	dBA	6147	0	dBA	6333	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	5718	0	dBA	5758	0	dBA	5528	0	dBA	6065	0	dBA	6250	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	5889	0	dBA	5930	0	dBA	5684	0	dBA	6238	0	dBA	6424	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	5819	0	dBA	5858	0	dBA	5656	0	dBA	6159	0	dBA	6343	0	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
<b>POR085</b>	<b>POR086</b>	<b>POR087</b>	<b>POR088</b>	<b>POR089</b>
<b>Point of Reception Description</b> House 61	<b>Point of Reception Description</b> Vacant Lot Receptor 25 (WB V14)	<b>Point of Reception Description</b> Vacant Lot Receptor 26 (WB V19)	<b>Point of Reception Description</b> House 62	<b>Point of Reception Description</b> House 63
<b>X</b> <b>Y</b> <b>Z</b>	<b>X</b> <b>Y</b> <b>Z</b>	<b>X</b> <b>Y</b> <b>Z</b>	<b>X</b> <b>Y</b> <b>Z</b>	<b>X</b> <b>Y</b> <b>Z</b>
369924    4908274    132.2	369797    4908147    134.5	369899    4908142    133.9	370056    4908282    130.3	370552    4908625    131.1

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_U1	MVPP P7/9_U1
MVPP_P7_9_U2	MVPP P7/9_U2
MVPP_P7_9_U3	MVPP P7/9_U3
MVPP_P7_9_U4	MVPP P7/9_U4
MVPP_P11A_U1	MVPP P11A_U1
MVPP_P11A_U2	MVPP P11A_U2
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
1000	22	dBA
1068	15	dBA
1135	15	dBA
1183	10	dBA
948	12	dBA
798	18	dBA
639	20	dBA
502	22	dBA
355	25	dBA
222	28	dBA
1258	16	dBA
1131	10	dBA
1016	11	dBA
897	17	dBA
784	14	dBA
2157	0	dBA
2247	0	dBA
2040	0	dBA
2997	0	dBA
2954	0	dBA
2914	0	dBA
2883	0	dBA
3024	0	dBA
3000	0	dBA
2991	0	dBA
900	23	dBA
1008	21	dBA
1166	20	dBA
934	22	dBA
1127	20	dBA
1244	14	dBA
1380	13	dBA
1873	12	dBA
1820	12	dBA
1769	6	dBA
1725	7	dBA
1704	7	dBA
1679	7	dBA
1843	16	dBA
1772	16	dBA
1718	17	dBA
1653	13	dBA
1596	7	dBA
1545	8	dBA
1520	8	dBA
1491	8	dBA
1699	17	dBA
1610	17	dBA
1523	18	dBA
1452	8	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
1179	21	dBA
1245	14	dBA
1311	13	dBA
1339	9	dBA
1090	15	dBA
940	16	dBA
785	18	dBA
652	19	dBA
514	21	dBA
392	24	dBA
1327	20	dBA
1193	14	dBA
1070	15	dBA
941	16	dBA
814	13	dBA
2052	0	dBA
2124	0	dBA
1922	6	dBA
2918	0	dBA
2867	0	dBA
2820	0	dBA
2782	0	dBA
2915	0	dBA
2882	0	dBA
2865	0	dBA
810	24	dBA
914	23	dBA
1067	22	dBA
869	24	dBA
1050	22	dBA
1162	15	dBA
1294	14	dBA
1700	17	dBA
1650	18	dBA
1604	12	dBA
1566	12	dBA
1549	12	dBA
1531	12	dBA
1665	18	dBA
1596	18	dBA
1543	18	dBA
1481	19	dBA
1428	13	dBA
1383	13	dBA
1363	13	dBA
1340	13	dBA
1520	18	dBA
1432	19	dBA
1347	20	dBA
1279	14	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
1114	21	dBA
1189	14	dBA
1261	14	dBA
1317	9	dBA
1082	15	dBA
932	16	dBA
774	18	dBA
636	20	dBA
490	22	dBA
356	24	dBA
1368	19	dBA
1237	14	dBA
1119	15	dBA
994	16	dBA
873	13	dBA
2153	0	dBA
2226	0	dBA
2024	0	dBA
3015	0	dBA
2966	0	dBA
2920	0	dBA
2883	0	dBA
3016	0	dBA
2984	0	dBA
2966	0	dBA
775	25	dBA
883	23	dBA
1039	22	dBA
819	24	dBA
1008	22	dBA
1123	15	dBA
1257	14	dBA
1787	17	dBA
1741	17	dBA
1698	11	dBA
1662	11	dBA
1647	11	dBA
1631	12	dBA
1742	17	dBA
1676	18	dBA
1626	18	dBA
1569	18	dBA
1520	12	dBA
1478	12	dBA
1460	13	dBA
1440	13	dBA
1592	18	dBA
1509	19	dBA
1430	19	dBA
1367	13	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
906	22	dBA
985	16	dBA
1062	15	dBA
1150	10	dBA
939	12	dBA
792	14	dBA
633	20	dBA
494	22	dBA
346	25	dBA
209	29	dBA
1314	15	dBA
1193	10	dBA
1085	11	dBA
975	12	dBA
873	13	dBA
2288	0	dBA
2379	0	dBA
2172	0	dBA
3122	0	dBA
3080	0	dBA
3042	0	dBA
3013	0	dBA
3155	0	dBA
3132	0	dBA
3124	0	dBA
896	23	dBA
1005	22	dBA
1163	20	dBA
909	22	dBA
1107	21	dBA
1226	14	dBA
1364	13	dBA
1992	11	dBA
1942	12	dBA
1895	6	dBA
1853	6	dBA
1834	6	dBA
1810	6	dBA
1952	15	dBA
1885	16	dBA
1833	16	dBA
1773	13	dBA
1719	7	dBA
1671	7	dBA
1649	7	dBA
1621	7	dBA
1803	16	dBA
1719	17	dBA
1638	17	dBA
1571	7	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
372	30	dBA
495	22	dBA
604	20	dBA
871	13	dBA
815	13	dBA
726	14	dBA
638	15	dBA
583	16	dBA
559	17	dBA
570	16	dBA
1414	15	dBA
1336	9	dBA
1273	9	dBA
1217	10	dBA
1176	10	dBA
2769	0	dBA
2896	0	dBA
2681	0	dBA
3532	0	dBA
3508	0	dBA
3489	0	dBA
3476	0	dBA
3634	0	dBA
3632	0	dBA
3641	0	dBA
1327	19	dBA
1428	18	dBA
1577	17	dBA
1281	19	dBA
1473	18	dBA
1589	12	dBA
1725	11	dBA
2592	0	dBA
2538	0	dBA
2486	0	dBA
2436	0	dBA
2411	0	dBA
2377	0	dBA
2554	0	dBA
2487	0	dBA
2435	0	dBA
2372	0	dBA
2314	0	dBA
2259	0	dBA
2231	0	dBA
2193	0	dBA
2402	0	dBA
2321	0	dBA
2240	0	dBA
2171	0	dBA



**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR085**

**Point of Reception ID**  
**POR086**

**Point of Reception ID**  
**POR087**

**Point of Reception ID**  
**POR088**

**Point of Reception ID**  
**POR089**

**Point of Reception Description**  
 House 61

**Point of Reception Description**  
 Vacant Lot Receptor 25 (WB V14)

**Point of Reception Description**  
 Vacant Lot Receptor 26 (WB V19)

**Point of Reception Description**  
 House 62

**Point of Reception Description**  
 House 63

X	Y	Z
369924	4908274	132.2

X	Y	Z
369797	4908147	134.5

X	Y	Z
369899	4908142	133.9

X	Y	Z
370056	4908282	130.3

X	Y	Z
370552	4908625	131.1

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1390	9	dBA
1338	9	dBA
1304	9	dBA
1989	11	dBA
1947	12	dBA
1909	6	dBA
1890	6	dBA
1865	6	dBA
2094	0	dBA
2065	0	dBA
2037	0	dBA
2486	0	dBA
2444	0	dBA
2415	0	dBA
2287	0	dBA
4291	0	dBA
4260	0	dBA
4263	0	dBA
4270	0	dBA
4457	0	dBA
4462	0	dBA
4663	0	dBA
5674	0	dBA
5655	0	dBA
5643	0	dBA
5611	0	dBA
5607	0	dBA
5604	0	dBA
5604	0	dBA
5605	0	dBA
5610	0	dBA
5825	0	dBA
5806	0	dBA
5799	0	dBA
5790	0	dBA
5786	0	dBA
5860	0	dBA
6033	0	dBA
6017	0	dBA
6006	0	dBA
5997	0	dBA
5991	0	dBA
5989	0	dBA
5989	0	dBA
5828	0	dBA
5733	0	dBA
5620	0	dBA
703	36	dBA
2110	0	dBA
2114	0	dBA
2114	0	dBA
2137	0	dBA
2142	0	dBA
2142	0	dBA
2180	0	dBA
2185	0	dBA
2184	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1223	14	dBA
1178	14	dBA
1154	15	dBA
1823	17	dBA
1785	17	dBA
1752	11	dBA
1737	11	dBA
1718	11	dBA
1937	10	dBA
1914	10	dBA
1895	6	dBA
2320	0	dBA
2282	0	dBA
2256	0	dBA
2125	0	dBA
4124	0	dBA
4095	0	dBA
4100	0	dBA
4109	0	dBA
4293	0	dBA
4300	0	dBA
4503	0	dBA
5500	0	dBA
5482	0	dBA
5471	0	dBA
5442	0	dBA
5439	0	dBA
5437	0	dBA
5438	0	dBA
5441	0	dBA
5448	0	dBA
5651	0	dBA
5634	0	dBA
5629	0	dBA
5621	0	dBA
5620	0	dBA
5696	0	dBA
5860	0	dBA
5846	0	dBA
5836	0	dBA
5828	0	dBA
5824	0	dBA
5823	0	dBA
5825	0	dBA
5652	0	dBA
5557	0	dBA
5444	0	dBA
733	36	dBA
1973	-5	dBA
1978	6	dBA
1977	6	dBA
1991	-5	dBA
1996	6	dBA
1996	6	dBA
2026	0	dBA
2031	0	dBA
2030	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1315	13	dBA
1275	14	dBA
1253	14	dBA
1915	16	dBA
1880	16	dBA
1849	10	dBA
1835	11	dBA
1819	11	dBA
2035	0	dBA
2013	0	dBA
1996	5	dBA
2413	0	dBA
2377	0	dBA
2352	0	dBA
2220	0	dBA
4216	0	dBA
4187	0	dBA
4193	0	dBA
4203	0	dBA
4386	0	dBA
4394	0	dBA
4598	0	dBA
5585	0	dBA
5569	0	dBA
5559	0	dBA
5532	0	dBA
5529	0	dBA
5529	0	dBA
5530	0	dBA
5534	0	dBA
5542	0	dBA
5737	0	dBA
5721	0	dBA
5718	0	dBA
5712	0	dBA
5711	0	dBA
5789	0	dBA
5946	0	dBA
5933	0	dBA
5924	0	dBA
5918	0	dBA
5915	0	dBA
5915	0	dBA
5918	0	dBA
5734	0	dBA
5640	0	dBA
5524	0	dBA
791	35	dBA
1975	-5	dBA
1980	6	dBA
1980	6	dBA
2003	0	dBA
2008	0	dBA
2007	0	dBA
2046	0	dBA
2051	0	dBA
2050	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1514	8	dBA
1466	8	dBA
1434	8	dBA
2114	0	dBA
2074	0	dBA
2038	0	dBA
2020	0	dBA
1996	5	dBA
2223	0	dBA
2195	0	dBA
2170	0	dBA
2611	0	dBA
2571	0	dBA
2543	0	dBA
2414	0	dBA
4416	0	dBA
4386	0	dBA
4390	0	dBA
4397	0	dBA
4583	0	dBA
4589	0	dBA
4791	0	dBA
5792	0	dBA
5774	0	dBA
5763	0	dBA
5734	0	dBA
5730	0	dBA
5729	0	dBA
5729	0	dBA
5731	0	dBA
5737	0	dBA
5943	0	dBA
5926	0	dBA
5921	0	dBA
5913	0	dBA
5911	0	dBA
5986	0	dBA
6151	0	dBA
6137	0	dBA
6128	0	dBA
6120	0	dBA
6115	0	dBA
6114	0	dBA
6115	0	dBA
5942	0	dBA
5848	0	dBA
5733	0	dBA
793	35	dBA
2136	0	dBA
2141	0	dBA
2141	0	dBA
2175	0	dBA
2180	0	dBA
2179	0	dBA
2228	0	dBA
2233	0	dBA
2232	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2108	0	dBA
2050	0	dBA
2007	0	dBA
2707	0	dBA
2662	0	dBA
2618	0	dBA
2594	0	dBA
2560	0	dBA
2801	0	dBA
2764	0	dBA
2724	0	dBA
3202	0	dBA
3158	0	dBA
3124	0	dBA
3000	0	dBA
5009	0	dBA
4975	0	dBA
4977	0	dBA
4981	0	dBA
5172	0	dBA
5174	0	dBA
5373	0	dBA
6393	0	dBA
6374	0	dBA
6362	0	dBA
6330	0	dBA
6325	0	dBA
6321	0	dBA
6319	0	dBA
6319	0	dBA
6322	0	dBA
6544	0	dBA
6525	0	dBA
6518	0	dBA
6507	0	dBA
6502	0	dBA
6574	0	dBA
6752	0	dBA
6736	0	dBA
6725	0	dBA
6715	0	dBA
6708	0	dBA
6705	0	dBA
6703	0	dBA
6545	0	dBA
6450	0	dBA
6336	0	dBA
1115	31	dBA
2595	0	dBA
2600	0	dBA
2599	0	dBA
2661	0	dBA
2666	0	dBA
2665	0	dBA
2737	0	dBA
2742	0	dBA
2741	0	dBA

**Appendix H: Point of Reception Noise Impac**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR085</b>			Point of Reception ID <b>POR086</b>			Point of Reception ID <b>POR087</b>			Point of Reception ID <b>POR088</b>			Point of Reception ID <b>POR089</b>		
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
		369924	4908274	132.2	369797	4908147	134.5	369899	4908142	133.9	370056	4908282	130.3	370552	4908625	131.1
		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
WB_H4T	Hut 4 Transformer	1765	-6	dBA	1610	-3	dBA	1631	-3	dBA	1815	-7	dBA	2335	0	dBA
WB_H4I1	Hut 4 Inverter 1	1770	5	dBA	1615	8	dBA	1636	8	dBA	1820	4	dBA	2340	0	dBA
WB_H4I2	Hut 4 Inverter 2	1769	5	dBA	1614	8	dBA	1635	8	dBA	1819	4	dBA	2339	0	dBA
WB_H5T	Hut 5 Transformer	1692	-6	dBA	1567	-2	dBA	1559	-2	dBA	1709	-6	dBA	2151	0	dBA
WB_H5I1	Hut 5 Inverter 1	1697	5	dBA	1571	9	dBA	1564	9	dBA	1714	5	dBA	2156	0	dBA
WB_H5I2	Hut 5 Inverter 2	1697	5	dBA	1572	9	dBA	1564	9	dBA	1713	5	dBA	2155	0	dBA
WB_H6T	Hut 6 Transformer	1859	-7	dBA	1726	-4	dBA	1725	-4	dBA	1882	-7	dBA	2337	0	dBA
WB_H6I1	Hut 6 Inverter 1	1863	4	dBA	1731	7	dBA	1730	7	dBA	1887	4	dBA	2342	0	dBA
WB_H6I2	Hut 6 Inverter 2	1863	4	dBA	1731	7	dBA	1729	7	dBA	1887	4	dBA	2341	0	dBA
WB_H7T	Hut 7 Transformer	1703	-6	dBA	1566	-2	dBA	1569	-2	dBA	1732	-6	dBA	2204	0	dBA
WB_H7I1	Hut 7 Inverter 1	1708	5	dBA	1571	9	dBA	1574	9	dBA	1737	5	dBA	2208	0	dBA
WB_H7I2	Hut 7 Inverter 2	1708	5	dBA	1571	9	dBA	1573	9	dBA	1736	5	dBA	2207	0	dBA
WB_H8T	Hut 8 Transformer	1726	-6	dBA	1580	-3	dBA	1592	-3	dBA	1766	-6	dBA	2263	0	dBA
WB_H8I1	Hut 8 Inverter 1	1731	5	dBA	1585	8	dBA	1597	8	dBA	1771	5	dBA	2267	0	dBA
WB_H8I2	Hut 8 Inverter 2	1731	5	dBA	1585	8	dBA	1596	8	dBA	1770	5	dBA	2266	0	dBA
WB_H9T	Hut 9 Transformer	1958	-8	dBA	1803	-4	dBA	1824	-4	dBA	2006	0	dBA	2520	0	dBA
WB_H9I1	Hut 9 Inverter 1	1963	3	dBA	1808	7	dBA	1829	7	dBA	2011	0	dBA	2524	0	dBA
WB_H9I2	Hut 9 Inverter 2	1962	3	dBA	1808	7	dBA	1828	7	dBA	2010	0	dBA	2523	0	dBA
WB_H10T	Hut 10 Transformer	1958	-8	dBA	1817	-4	dBA	1824	-4	dBA	1991	-8	dBA	2467	0	dBA
WB_H10I1	Hut 10 Inverter 1	1963	3	dBA	1822	7	dBA	1829	7	dBA	1996	3	dBA	2472	0	dBA
WB_H10I2	Hut 10 Inverter 2	1963	3	dBA	1822	7	dBA	1828	7	dBA	1995	3	dBA	2471	0	dBA
WB_ST	Substation Transformer	2228	0	dBA	2093	0	dBA	2094	0	dBA	2253	0	dBA	2704	0	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	5887	0	dBA	5711	0	dBA	5764	0	dBA	5969	0	dBA	6537	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	6085	0	dBA	5909	0	dBA	5962	0	dBA	6167	0	dBA	6734	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	5991	0	dBA	5816	0	dBA	5867	0	dBA	6071	0	dBA	6635	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	6166	0	dBA	5991	0	dBA	6041	0	dBA	6245	0	dBA	6809	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	6075	0	dBA	5900	0	dBA	5949	0	dBA	6152	0	dBA	6712	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	6249	0	dBA	6075	0	dBA	6124	0	dBA	6326	0	dBA	6886	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	6159	0	dBA	5986	0	dBA	6033	0	dBA	6235	0	dBA	6790	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	6334	0	dBA	6161	0	dBA	6207	0	dBA	6409	0	dBA	6965	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	6247	0	dBA	6075	0	dBA	6120	0	dBA	6320	0	dBA	6872	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	6421	0	dBA	6248	0	dBA	6294	0	dBA	6494	0	dBA	7046	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	6336	0	dBA	6165	0	dBA	6209	0	dBA	6408	0	dBA	6955	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON



Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	
<b>POR090</b>	<b>POR091</b>	<b>POR092</b>	<b>POR093</b>	<b>POR094</b>	
<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	<b>Point of Reception Description</b>	
House 64	House 65	House 66	House 67	House 68	
<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
370697	4908843	133.1	370666	4909184	137.6
<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
370365	4909176	139.6	370413	4909228	140.5
<b>X</b>	<b>Y</b>	<b>Z</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
370488	4909382	139.8			

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_U1	MVPP P7/9/U1
MVPP_P7_9_U2	MVPP P7/9/U2
MVPP_P7_9_U3	MVPP P7/9/U3
MVPP_P7_9_U4	MVPP P7/9/U4
MVPP_P11A_U1	MVPP P11A_U1
MVPP_P11A_U2	MVPP P11A_U2
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
165	37	dBA
301	26	dBA
417	23	dBA
762	14	dBA
798	13	dBA
754	14	dBA
719	19	dBA
714	19	dBA
738	18	dBA
785	18	dBA
1439	15	dBA
1384	9	dBA
1344	9	dBA
1314	9	dBA
1298	9	dBA
2929	0	dBA
3073	0	dBA
2856	0	dBA
3651	0	dBA
3636	0	dBA
3626	0	dBA
3622	0	dBA
3787	0	dBA
3797	0	dBA
3816	0	dBA
1584	17	dBA
1683	17	dBA
1830	16	dBA
1532	18	dBA
1720	17	dBA
1835	10	dBA
1969	10	dBA
2829	0	dBA
2772	0	dBA
2713	0	dBA
2656	0	dBA
2627	0	dBA
2586	0	dBA
2802	0	dBA
2733	0	dBA
2677	0	dBA
2610	0	dBA
2546	0	dBA
2484	0	dBA
2452	0	dBA
2407	0	dBA
2654	0	dBA
2569	0	dBA
2483	0	dBA
2409	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
199	36	dBA
111	34	dBA
136	32	dBA
522	17	dBA
674	15	dBA
698	15	dBA
737	18	dBA
795	18	dBA
877	17	dBA
967	16	dBA
1313	15	dBA
1290	9	dBA
1282	9	dBA
1288	9	dBA
1309	9	dBA
2953	0	dBA
3124	0	dBA
2905	0	dBA
3607	0	dBA
3605	0	dBA
3609	0	dBA
3618	0	dBA
3794	0	dBA
3821	0	dBA
3857	0	dBA
1892	16	dBA
1995	15	dBA
2145	0	dBA
1851	16	dBA
2043	0	dBA
2160	0	dBA
2295	0	dBA
3002	0	dBA
2933	0	dBA
2863	0	dBA
2792	0	dBA
2754	0	dBA
2700	0	dBA
3004	0	dBA
2925	0	dBA
2862	0	dBA
2783	0	dBA
2707	0	dBA
2631	0	dBA
2590	0	dBA
2531	0	dBA
2867	0	dBA
2771	0	dBA
2673	0	dBA
2586	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
317	32	dBA
220	29	dBA
182	30	dBA
295	26	dBA
374	24	dBA
401	24	dBA
466	22	dBA
553	21	dBA
667	19	dBA
783	18	dBA
1018	21	dBA
989	16	dBA
980	16	dBA
989	16	dBA
1017	16	dBA
2657	0	dBA
2834	0	dBA
2615	0	dBA
3305	0	dBA
3303	0	dBA
3307	0	dBA
3318	0	dBA
3494	0	dBA
3524	0	dBA
3564	0	dBA
1813	16	dBA
1920	16	dBA
2076	0	dBA
1795	16	dBA
1993	15	dBA
2112	0	dBA
2250	0	dBA
2766	0	dBA
2691	0	dBA
2614	0	dBA
2536	0	dBA
2494	0	dBA
2434	0	dBA
2789	0	dBA
2704	0	dBA
2635	0	dBA
2549	0	dBA
2466	0	dBA
2382	0	dBA
2337	0	dBA
2271	0	dBA
2662	0	dBA
2559	0	dBA
2452	0	dBA
2356	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
316	32	dBA
196	29	dBA
125	33	dBA
287	26	dBA
420	23	dBA
463	22	dBA
536	21	dBA
625	20	dBA
737	18	dBA
852	17	dBA
1056	21	dBA
1035	15	dBA
1032	16	dBA
1047	15	dBA
1080	15	dBA
2718	0	dBA
2897	0	dBA
2678	0	dBA
3354	0	dBA
3355	0	dBA
3361	0	dBA
3374	0	dBA
3552	0	dBA
3584	0	dBA
3625	0	dBA
1872	16	dBA
1979	15	dBA
2134	0	dBA
1851	16	dBA
2048	0	dBA
2167	0	dBA
2305	0	dBA
2837	0	dBA
2762	0	dBA
2685	0	dBA
2606	0	dBA
2564	0	dBA
2503	0	dBA
2861	0	dBA
2776	0	dBA
2707	0	dBA
2620	0	dBA
2537	0	dBA
2453	0	dBA
2407	0	dBA
2341	0	dBA
2733	0	dBA
2630	0	dBA
2523	0	dBA
2428	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
414	26	dBA
278	27	dBA
162	31	dBA
288	26	dBA
521	21	dBA
598	20	dBA
692	19	dBA
790	18	dBA
907	17	dBA
1023	11	dBA
1116	21	dBA
1115	15	dBA
1130	15	dBA
1162	14	dBA
1209	14	dBA
2832	0	dBA
3021	0	dBA
2802	0	dBA
3436	0	dBA
3442	0	dBA
3455	0	dBA
3473	0	dBA
3655	0	dBA
3694	0	dBA
3742	0	dBA
2038	0	dBA
2144	0	dBA
2299	0	dBA
2013	0	dBA
2209	0	dBA
2328	0	dBA
2466	0	dBA
2996	0	dBA
2919	0	dBA
2839	0	dBA
2757	0	dBA
2713	0	dBA
2649	0	dBA
3026	0	dBA
2939	0	dBA
2869	0	dBA
2780	0	dBA
2695	0	dBA
2608	0	dBA
2560	0	dBA
2491	0	dBA
2900	0	dBA
2795	0	dBA
2687	0	dBA
2589	0	dBA

**Appendix H: Point of Reception Noise Impac**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID  
**POR090**

Point of Reception ID  
**POR091**

Point of Reception ID  
**POR092**

Point of Reception ID  
**POR093**

Point of Reception ID  
**POR094**

Point of Reception Description		
House 64		

Point of Reception Description		
House 65		

Point of Reception Description		
House 66		

Point of Reception Description		
House 67		

Point of Reception Description		
House 68		

X	Y	Z
370697	4908843	133.1

X	Y	Z
370666	4909184	137.6

X	Y	Z
370365	4909176	139.6

X	Y	Z
370413	4909228	140.5

X	Y	Z
370488	4909382	139.8

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2340	0	dBA
2274	0	dBA
2223	0	dBA
2936	0	dBA
2886	0	dBA
2836	0	dBA
2808	0	dBA
2766	0	dBA
3017	0	dBA
2974	0	dBA
2924	0	dBA
3429	0	dBA
3380	0	dBA
3342	0	dBA
3221	0	dBA
5235	0	dBA
5198	0	dBA
5197	0	dBA
5197	0	dBA
5393	0	dBA
5393	0	dBA
5588	0	dBA
6631	0	dBA
6609	0	dBA
6595	0	dBA
6559	0	dBA
6551	0	dBA
6546	0	dBA
6542	0	dBA
6539	0	dBA
6539	0	dBA
6781	0	dBA
6759	0	dBA
6749	0	dBA
6734	0	dBA
6726	0	dBA
6793	0	dBA
6988	0	dBA
6970	0	dBA
6956	0	dBA
6944	0	dBA
6934	0	dBA
6927	0	dBA
6923	0	dBA
6788	0	dBA
6692	0	dBA
6580	0	dBA
1249	30	dBA
2850	0	dBA
2855	0	dBA
2854	0	dBA
2919	0	dBA
2924	0	dBA
2923	0	dBA
2998	0	dBA
3003	0	dBA
3001	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2503	0	dBA
2420	0	dBA
2354	0	dBA
3087	0	dBA
3026	0	dBA
2963	0	dBA
2927	0	dBA
2872	0	dBA
3140	0	dBA
3084	0	dBA
3017	0	dBA
3571	0	dBA
3512	0	dBA
3466	0	dBA
3354	0	dBA
5370	0	dBA
5326	0	dBA
5317	0	dBA
5311	0	dBA
5517	0	dBA
5509	0	dBA
5697	0	dBA
6792	0	dBA
6764	0	dBA
6743	0	dBA
6697	0	dBA
6685	0	dBA
6674	0	dBA
6665	0	dBA
6657	0	dBA
6650	0	dBA
6939	0	dBA
6910	0	dBA
6890	0	dBA
6868	0	dBA
6852	0	dBA
6910	0	dBA
7143	0	dBA
7119	0	dBA
7099	0	dBA
7081	0	dBA
7063	0	dBA
7051	0	dBA
7040	0	dBA
6963	0	dBA
6863	0	dBA
6760	0	dBA
1278	31	dBA
3161	0	dBA
3166	0	dBA
3165	0	dBA
3222	0	dBA
3227	0	dBA
3226	0	dBA
3292	0	dBA
3297	0	dBA
3296	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2265	0	dBA
2173	0	dBA
2098	0	dBA
2838	0	dBA
2771	0	dBA
2703	0	dBA
2663	0	dBA
2602	0	dBA
2876	0	dBA
2815	0	dBA
2741	0	dBA
3315	0	dBA
3252	0	dBA
3202	0	dBA
3094	0	dBA
5107	0	dBA
5060	0	dBA
5048	0	dBA
5039	0	dBA
5249	0	dBA
5238	0	dBA
5423	0	dBA
6541	0	dBA
6509	0	dBA
6486	0	dBA
6434	0	dBA
6421	0	dBA
6407	0	dBA
6396	0	dBA
6386	0	dBA
6376	0	dBA
6686	0	dBA
6654	0	dBA
6629	0	dBA
6603	0	dBA
6584	0	dBA
6637	0	dBA
6889	0	dBA
6862	0	dBA
6839	0	dBA
6817	0	dBA
6796	0	dBA
6781	0	dBA
6767	0	dBA
6720	0	dBA
6618	0	dBA
6520	0	dBA
992	34	dBA
3074	0	dBA
3079	0	dBA
3078	0	dBA
3119	0	dBA
3124	0	dBA
3123	0	dBA
3174	0	dBA
3179	0	dBA
3178	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2336	0	dBA
2243	0	dBA
2168	0	dBA
2909	0	dBA
2841	0	dBA
2772	0	dBA
2732	0	dBA
2670	0	dBA
2946	0	dBA
2883	0	dBA
2808	0	dBA
3385	0	dBA
3321	0	dBA
3270	0	dBA
3164	0	dBA
5176	0	dBA
5128	0	dBA
5116	0	dBA
5106	0	dBA
5317	0	dBA
5306	0	dBA
5490	0	dBA
6612	0	dBA
6579	0	dBA
6555	0	dBA
6503	0	dBA
6489	0	dBA
6475	0	dBA
6464	0	dBA
6453	0	dBA
6443	0	dBA
6756	0	dBA
6723	0	dBA
6698	0	dBA
6671	0	dBA
6652	0	dBA
6705	0	dBA
6958	0	dBA
6931	0	dBA
6908	0	dBA
6886	0	dBA
6865	0	dBA
6849	0	dBA
6835	0	dBA
6791	0	dBA
6688	0	dBA
6591	0	dBA
1058	34	dBA
3135	0	dBA
3140	0	dBA
3140	0	dBA
3182	0	dBA
3187	0	dBA
3187	0	dBA
3239	0	dBA
3244	0	dBA
3243	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2495	0	dBA
2399	0	dBA
2321	0	dBA
3063	0	dBA
2993	0	dBA
2921	0	dBA
2879	0	dBA
2813	0	dBA
3092	0	dBA
3026	0	dBA
2946	0	dBA
3356	0	dBA
3469	0	dBA
3416	0	dBA
3312	0	dBA
5321	0	dBA
5272	0	dBA
5258	0	dBA
5245	0	dBA
5459	0	dBA
5446	0	dBA
5627	0	dBA
6763	0	dBA
6729	0	dBA
6703	0	dBA
6648	0	dBA
6633	0	dBA
6618	0	dBA
6604	0	dBA
6593	0	dBA
6580	0	dBA
6906	0	dBA
6872	0	dBA
6845	0	dBA
6815	0	dBA
6794	0	dBA
6843	0	dBA
7108	0	dBA
7079	0	dBA
7054	0	dBA
7031	0	dBA
7007	0	dBA
6989	0	dBA
6973	0	dBA
6946	0	dBA
6842	0	dBA
6747	0	dBA
1194	32	dBA
3303	0	dBA
3308	0	dBA
3307	0	dBA
3351	0	dBA
3356	0	dBA
3355	0	dBA
3409	0	dBA
3414	0	dBA
3413	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON



Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR090</b>			Point of Reception ID <b>POR091</b>			Point of Reception ID <b>POR092</b>			Point of Reception ID <b>POR093</b>			Point of Reception ID <b>POR094</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
		Point of Reception Description House 64			Point of Reception Description House 65			Point of Reception Description House 66			Point of Reception Description House 67			Point of Reception Description House 68		
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
		370697	4908843	133.1	370666	4909184	137.6	370365	4909176	139.6	370413	4909228	140.5	370488	4909382	139.8
WB_H4T	Hut 4 Transformer	2597	0	dBA	2885	0	dBA	2761	0	dBA	2826	0	dBA	2997	0	dBA
WB_H4I1	Hut 4 Inverter 1	2601	0	dBA	2890	0	dBA	2765	0	dBA	2831	0	dBA	3002	0	dBA
WB_H4I2	Hut 4 Inverter 2	2600	0	dBA	2888	0	dBA	2765	0	dBA	2830	0	dBA	3001	0	dBA
WB_H5T	Hut 5 Transformer	2405	0	dBA	2718	0	dBA	2639	0	dBA	2699	0	dBA	2865	0	dBA
WB_H5I1	Hut 5 Inverter 1	2410	0	dBA	2723	0	dBA	2644	0	dBA	2704	0	dBA	2870	0	dBA
WB_H5I2	Hut 5 Inverter 2	2409	0	dBA	2722	0	dBA	2644	0	dBA	2704	0	dBA	2870	0	dBA
WB_H6T	Hut 6 Transformer	2592	0	dBA	2904	0	dBA	2818	0	dBA	2879	0	dBA	3046	0	dBA
WB_H6I1	Hut 6 Inverter 1	2597	0	dBA	2908	0	dBA	2823	0	dBA	2884	0	dBA	3051	0	dBA
WB_H6I2	Hut 6 Inverter 2	2596	0	dBA	2908	0	dBA	2822	0	dBA	2883	0	dBA	3050	0	dBA
WB_H7T	Hut 7 Transformer	2461	0	dBA	2766	0	dBA	2672	0	dBA	2734	0	dBA	2902	0	dBA
WB_H7I1	Hut 7 Inverter 1	2466	0	dBA	2771	0	dBA	2676	0	dBA	2739	0	dBA	2907	0	dBA
WB_H7I2	Hut 7 Inverter 2	2465	0	dBA	2770	0	dBA	2676	0	dBA	2738	0	dBA	2906	0	dBA
WB_H8T	Hut 8 Transformer	2522	0	dBA	2820	0	dBA	2710	0	dBA	2775	0	dBA	2944	0	dBA
WB_H8I1	Hut 8 Inverter 1	2527	0	dBA	2825	0	dBA	2715	0	dBA	2779	0	dBA	2949	0	dBA
WB_H8I2	Hut 8 Inverter 2	2526	0	dBA	2824	0	dBA	2715	0	dBA	2779	0	dBA	2948	0	dBA
WB_H9T	Hut 9 Transformer	2780	0	dBA	3072	0	dBA	2952	0	dBA	3017	0	dBA	3187	0	dBA
WB_H9I1	Hut 9 Inverter 1	2785	0	dBA	3077	0	dBA	2957	0	dBA	3022	0	dBA	3192	0	dBA
WB_H9I2	Hut 9 Inverter 2	2784	0	dBA	3076	0	dBA	2956	0	dBA	3021	0	dBA	3191	0	dBA
WB_H10T	Hut 10 Transformer	2725	0	dBA	3030	0	dBA	2933	0	dBA	2995	0	dBA	3164	0	dBA
WB_H10I1	Hut 10 Inverter 1	2729	0	dBA	3035	0	dBA	2937	0	dBA	3000	0	dBA	3169	0	dBA
WB_H10I2	Hut 10 Inverter 2	2728	0	dBA	3034	0	dBA	2937	0	dBA	3000	0	dBA	3168	0	dBA
WB_ST	Substation Transformer	2958	0	dBA	3272	0	dBA	3189	0	dBA	3250	0	dBA	3417	0	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	6799	0	dBA	7057	0	dBA	6883	0	dBA	6953	0	dBA	7123	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	6996	0	dBA	7255	0	dBA	7081	0	dBA	7151	0	dBA	7321	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	6897	0	dBA	7159	0	dBA	6989	0	dBA	7059	0	dBA	7229	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	7071	0	dBA	7334	0	dBA	7164	0	dBA	7234	0	dBA	7404	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	6974	0	dBA	7240	0	dBA	7074	0	dBA	7144	0	dBA	7315	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	7148	0	dBA	7415	0	dBA	7249	0	dBA	7319	0	dBA	7489	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	7053	0	dBA	7322	0	dBA	7161	0	dBA	7230	0	dBA	7401	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	7227	0	dBA	7497	0	dBA	7335	0	dBA	7405	0	dBA	7575	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	7134	0	dBA	7407	0	dBA	7249	0	dBA	7319	0	dBA	7489	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	7308	0	dBA	7581	0	dBA	7423	0	dBA	7492	0	dBA	7663	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	7217	0	dBA	7493	0	dBA	7340	0	dBA	7409	0	dBA	7580	0	dBA

**Appendix H: Point of Reception Noise Impact**

Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON



Point of Reception ID  
**POR095**

Point of Reception ID  
**POR096**

Point of Reception ID  
**POR097**

Point of Reception ID  
**POR098**

Point of Reception Description  
 House 69

Point of Reception Description  
 Vacant Lot Receptor 27

Point of Reception Description  
 Vacant Lot Receptor 28

Point of Reception Description  
 House 70 (WB R21)

X	Y	Z
370378	4909505	137.5

X	Y	Z
370422	4909603	141.0

X	Y	Z
370395	4909603	141.0

X	Y	Z
370771	4907280	130.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_U1	MVPP P7/9/10_U1
MVPP_P7_9_U2	MVPP P7/9/10_U2
MVPP_P7_9_U3	MVPP P7/9/10_U3
MVPP_P7_9_U4	MVPP P7/9/10_U4
MVPP_P11A_U1	MVPP P11A_U1
MVPP_P11A_U2	MVPP P11A_U2
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
570	23	dBA
434	19	dBA
320	26	dBA
193	29	dBA
479	22	dBA
591	20	dBA
714	19	dBA
831	17	dBA
963	12	dBA
1090	11	dBA
1011	18	dBA
1027	16	dBA
1059	15	dBA
1109	15	dBA
1174	14	dBA
2767	0	dBA
2967	0	dBA
2750	0	dBA
3336	0	dBA
3348	0	dBA
3367	0	dBA
3391	0	dBA
3576	0	dBA
3624	0	dBA
3679	0	dBA
2140	0	dBA
2248	0	dBA
2404	0	dBA
2124	0	dBA
2322	0	dBA
2441	0	dBA
2579	0	dBA
3005	0	dBA
2923	0	dBA
2838	0	dBA
2749	0	dBA
2701	0	dBA
2631	0	dBA
3051	0	dBA
2960	0	dBA
2886	0	dBA
2792	0	dBA
2701	0	dBA
2607	0	dBA
2555	0	dBA
2480	0	dBA
2933	0	dBA
2823	0	dBA
2708	0	dBA
2605	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
645	23	dBA
508	17	dBA
393	24	dBA
284	26	dBA
576	20	dBA
694	19	dBA
821	17	dBA
939	16	dBA
1071	15	dBA
1197	14	dBA
1069	22	dBA
1097	15	dBA
1138	15	dBA
1195	14	dBA
1267	14	dBA
2844	0	dBA
3049	0	dBA
2832	0	dBA
3392	0	dBA
3408	0	dBA
3430	0	dBA
3458	0	dBA
3645	0	dBA
3697	0	dBA
3756	0	dBA
2244	0	dBA
2351	0	dBA
2507	0	dBA
2225	0	dBA
2423	0	dBA
2542	0	dBA
2680	0	dBA
3107	0	dBA
3024	0	dBA
2937	0	dBA
2847	0	dBA
2798	0	dBA
2726	0	dBA
3156	0	dBA
3064	0	dBA
2989	0	dBA
2895	0	dBA
2802	0	dBA
2707	0	dBA
2654	0	dBA
2578	0	dBA
3039	0	dBA
2928	0	dBA
2813	0	dBA
2709	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
654	22	dBA
517	17	dBA
402	23	dBA
263	26	dBA
556	20	dBA
677	19	dBA
807	17	dBA
926	16	dBA
1060	15	dBA
1188	14	dBA
1042	22	dBA
1071	15	dBA
1113	15	dBA
1172	14	dBA
1245	14	dBA
2818	0	dBA
3025	0	dBA
2808	0	dBA
3365	0	dBA
3381	0	dBA
3404	0	dBA
3431	0	dBA
3619	0	dBA
3671	0	dBA
3730	0	dBA
2240	0	dBA
2347	0	dBA
2504	0	dBA
2223	0	dBA
2421	0	dBA
2540	0	dBA
2679	0	dBA
3089	0	dBA
3005	0	dBA
2918	0	dBA
2827	0	dBA
2777	0	dBA
2705	0	dBA
3139	0	dBA
3047	0	dBA
2972	0	dBA
2876	0	dBA
2784	0	dBA
2687	0	dBA
2634	0	dBA
2557	0	dBA
3023	0	dBA
2912	0	dBA
2796	0	dBA
2691	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
1717	17	dBA
1850	10	dBA
1963	10	dBA
2218	0	dBA
2090	0	dBA
1958	10	dBA
1812	11	dBA
1686	11	dBA
1552	12	dBA
1430	13	dBA
2544	0	dBA
2425	0	dBA
2316	0	dBA
2202	0	dBA
2091	0	dBA
3244	0	dBA
3250	0	dBA
3076	0	dBA
4160	0	dBA
4093	0	dBA
4027	0	dBA
3969	0	dBA
4074	0	dBA
4006	0	dBA
3950	0	dBA
705	21	dBA
693	22	dBA
707	21	dBA
563	23	dBA
553	24	dBA
582	16	dBA
641	15	dBA
2463	0	dBA
2473	0	dBA
2490	0	dBA
2516	0	dBA
2534	0	dBA
2566	0	dBA
2273	0	dBA
2270	0	dBA
2273	0	dBA
2283	0	dBA
2301	0	dBA
2328	0	dBA
2346	0	dBA
2379	0	dBA
2089	0	dBA
2087	0	dBA
2095	0	dBA
2112	0	dBA

**Appendix H: Point of Reception Noise Impac**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR095**

**Point of Reception Description**  
 House 69

X	Y	Z
370378	4909505	137.5

**Point of Reception ID**  
**POR096**

**Point of Reception Description**  
 Vacant Lot Receptor 27

X	Y	Z
370422	4909603	141.0

**Point of Reception ID**  
**POR097**

**Point of Reception Description**  
 Vacant Lot Receptor 28

X	Y	Z
370395	4909603	141.0

**Point of Reception ID**  
**POR098**

**Point of Reception Description**  
 House 70 (WB R21)

X	Y	Z
370771	4907280	130.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2504	0	dBA
2401	0	dBA
2315	0	dBA
3060	0	dBA
2985	0	dBA
2907	0	dBA
2861	0	dBA
2789	0	dBA
3074	0	dBA
3002	0	dBA
2914	0	dBA
3524	0	dBA
3453	0	dBA
3396	0	dBA
3297	0	dBA
5298	0	dBA
5245	0	dBA
5227	0	dBA
5211	0	dBA
5430	0	dBA
5413	0	dBA
5590	0	dBA
6750	0	dBA
6713	0	dBA
6684	0	dBA
6624	0	dBA
6606	0	dBA
6588	0	dBA
6572	0	dBA
6558	0	dBA
6542	0	dBA
6892	0	dBA
6854	0	dBA
6822	0	dBA
6787	0	dBA
6763	0	dBA
6807	0	dBA
7092	0	dBA
7060	0	dBA
7031	0	dBA
7005	0	dBA
6977	0	dBA
6957	0	dBA
6937	0	dBA
6941	0	dBA
6835	0	dBA
6745	0	dBA
1170	32	dBA
3398	0	dBA
3403	0	dBA
3402	0	dBA
3440	0	dBA
3445	0	dBA
3444	0	dBA
3490	0	dBA
3495	0	dBA
3494	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2607	0	dBA
2502	0	dBA
2415	0	dBA
3159	0	dBA
3083	0	dBA
3003	0	dBA
2956	0	dBA
2882	0	dBA
3169	0	dBA
3095	0	dBA
3005	0	dBA
3621	0	dBA
3549	0	dBA
3490	0	dBA
3393	0	dBA
5391	0	dBA
5336	0	dBA
5318	0	dBA
5300	0	dBA
5520	0	dBA
5502	0	dBA
5678	0	dBA
6846	0	dBA
6808	0	dBA
6778	0	dBA
6716	0	dBA
6697	0	dBA
6679	0	dBA
6661	0	dBA
6646	0	dBA
6629	0	dBA
6987	0	dBA
6948	0	dBA
6914	0	dBA
6878	0	dBA
6853	0	dBA
6895	0	dBA
7187	0	dBA
7154	0	dBA
7124	0	dBA
7096	0	dBA
7068	0	dBA
7046	0	dBA
7025	0	dBA
7039	0	dBA
6932	0	dBA
6844	0	dBA
1266	34	dBA
3504	0	dBA
3508	0	dBA
3508	0	dBA
3546	0	dBA
3551	0	dBA
3550	0	dBA
3597	0	dBA
3602	0	dBA
3601	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2588	0	dBA
2483	0	dBA
2395	0	dBA
3139	0	dBA
3062	0	dBA
2982	0	dBA
2935	0	dBA
2860	0	dBA
3147	0	dBA
3073	0	dBA
2982	0	dBA
3600	0	dBA
3527	0	dBA
3469	0	dBA
3372	0	dBA
5368	0	dBA
5313	0	dBA
5295	0	dBA
5277	0	dBA
5497	0	dBA
5479	0	dBA
5654	0	dBA
6825	0	dBA
6786	0	dBA
6756	0	dBA
6693	0	dBA
6675	0	dBA
6656	0	dBA
6638	0	dBA
6623	0	dBA
6605	0	dBA
6965	0	dBA
6926	0	dBA
6892	0	dBA
6856	0	dBA
6830	0	dBA
6872	0	dBA
7165	0	dBA
7131	0	dBA
7102	0	dBA
7074	0	dBA
7045	0	dBA
7022	0	dBA
7001	0	dBA
7018	0	dBA
6911	0	dBA
6823	0	dBA
1246	34	dBA
3498	0	dBA
3503	0	dBA
3502	0	dBA
3539	0	dBA
3544	0	dBA
3543	0	dBA
3589	0	dBA
3594	0	dBA
3593	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
2138	0	dBA
2176	0	dBA
2216	0	dBA
2661	0	dBA
2676	0	dBA
2698	0	dBA
2715	0	dBA
2746	0	dBA
2872	0	dBA
2897	0	dBA
2937	0	dBA
3126	0	dBA
3133	0	dBA
3143	0	dBA
2995	0	dBA
4817	0	dBA
4819	0	dBA
4850	0	dBA
4886	0	dBA
5022	0	dBA
5056	0	dBA
5278	0	dBA
6023	0	dBA
6036	0	dBA
6052	0	dBA
6067	0	dBA
6083	0	dBA
6103	0	dBA
6124	0	dBA
6147	0	dBA
6180	0	dBA
6184	0	dBA
6199	0	dBA
6234	0	dBA
6261	0	dBA
6288	0	dBA
6400	0	dBA
6398	0	dBA
6411	0	dBA
6428	0	dBA
6447	0	dBA
6473	0	dBA
6498	0	dBA
6525	0	dBA
6104	0	dBA
6032	0	dBA
5880	0	dBA
2009	0	dBA
1545	-5	dBA
1549	7	dBA
1548	7	dBA
1678	-6	dBA
1682	5	dBA
1680	5	dBA
1818	-7	dBA
1822	4	dBA
1820	4	dBA



**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR095**

**Point of Reception Description**  
 House 69

X	Y	Z
370378	4909505	137.5

**Point of Reception ID**  
**POR096**

**Point of Reception Description**  
 Vacant Lot Receptor 27

X	Y	Z
370422	4909603	141.0

**Point of Reception ID**  
**POR097**

**Point of Reception Description**  
 Vacant Lot Receptor 28

X	Y	Z
370395	4909603	141.0

**Point of Reception ID**  
**POR098**

**Point of Reception Description**  
 House 70 (WB R21)

X	Y	Z
370771	4907280	130.5

Source ID <sup>(1)</sup>	Source Description
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3076	0	dBA
3081	0	dBA
3080	0	dBA
2965	0	dBA
2970	0	dBA
2970	0	dBA
3143	0	dBA
3147	0	dBA
3147	0	dBA
2995	0	dBA
3000	0	dBA
2999	0	dBA
3030	0	dBA
3035	0	dBA
3034	0	dBA
3268	0	dBA
3273	0	dBA
3272	0	dBA
3255	0	dBA
3260	0	dBA
3259	0	dBA
3514	0	dBA
7168	0	dBA
7366	0	dBA
7277	0	dBA
7452	0	dBA
7365	0	dBA
7539	0	dBA
7454	0	dBA
7628	0	dBA
7545	0	dBA
7718	0	dBA
7637	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3183	0	dBA
3188	0	dBA
3187	0	dBA
3070	0	dBA
3075	0	dBA
3074	0	dBA
3248	0	dBA
3253	0	dBA
3252	0	dBA
3101	0	dBA
3105	0	dBA
3105	0	dBA
3137	0	dBA
3142	0	dBA
3141	0	dBA
3375	0	dBA
3380	0	dBA
3379	0	dBA
3361	0	dBA
3366	0	dBA
3365	0	dBA
3619	0	dBA
7276	0	dBA
7473	0	dBA
7385	0	dBA
7559	0	dBA
7473	0	dBA
7647	0	dBA
7562	0	dBA
7736	0	dBA
7653	0	dBA
7826	0	dBA
7745	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
3175	0	dBA
3179	0	dBA
3179	0	dBA
3065	0	dBA
3070	0	dBA
3069	0	dBA
3242	0	dBA
3247	0	dBA
3247	0	dBA
3094	0	dBA
3099	0	dBA
3099	0	dBA
3130	0	dBA
3134	0	dBA
3134	0	dBA
3367	0	dBA
3372	0	dBA
3371	0	dBA
3355	0	dBA
3359	0	dBA
3359	0	dBA
3613	0	dBA
7261	0	dBA
7459	0	dBA
7371	0	dBA
7546	0	dBA
7459	0	dBA
7633	0	dBA
7548	0	dBA
7722	0	dBA
7640	0	dBA
7813	0	dBA
7733	0	dBA

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
1522	-4	dBA
1525	7	dBA
1523	7	dBA
1135	-3	dBA
1138	10	dBA
1136	8	dBA
1318	-3	dBA
1322	9	dBA
1320	9	dBA
1258	-2	dBA
1262	9	dBA
1260	9	dBA
1383	-3	dBA
1386	8	dBA
1384	8	dBA
1647	-5	dBA
1651	6	dBA
1649	6	dBA
1484	-4	dBA
1488	7	dBA
1486	7	dBA
1624	7	dBA
5677	0	dBA
5870	0	dBA
5752	0	dBA
5923	0	dBA
5808	0	dBA
5979	0	dBA
5866	0	dBA
6038	0	dBA
5928	0	dBA
6100	0	dBA
5992	0	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR099	POR100	POR101	POR102	POR103
Point of Reception Description House 71 (WB R20)	Point of Reception Description House 72 (WB R19)	Point of Reception Description Vacant Lot Receptor 29 (WB V17)	Point of Reception Description House 73 (WB R18)	Point of Reception Description Vacant Lot Receptor 30 (WB V8)
Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates
X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>
370967 4907225 130.5	370950 4907207 130.5	370902 4907096 132.5	370804 4907054 129.1	370645 4906988 131.5

Source ID <sup>[1]</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR	Units <sup>[2]</sup>
1798	16	dBa
1933	10	dBa
2048	0	dBa
2327	0	dBa
2219	0	dBa
2093	0	dBa
1952	10	dBa
1831	10	dBa
1703	11	dBa
1587	12	dBa
2700	0	dBa
2585	0	dBa
2480	0	dBa
2370	0	dBa
2263	0	dBa
3445	0	dBa
3453	0	dBa
3279	0	dBa
4359	0	dBa
4294	0	dBa
4228	0	dBa
4171	0	dBa
4153	0	dBa
907	19	dBa
890	19	dBa
890	19	dBa
765	21	dBa
742	21	dBa
754	14	dBa
790	14	dBa
2660	0	dBa
2672	0	dBa
2691	0	dBa
2718	0	dBa
2737	0	dBa
2769	0	dBa
2464	0	dBa
2465	0	dBa
2470	0	dBa
2483	0	dBa
2502	0	dBa
2530	0	dBa
2549	0	dBa
2582	0	dBa
2281	0	dBa
2282	0	dBa
2294	0	dBa
2313	0	dBa

Distance (m)	Sound Level at PoR	Units <sup>[2]</sup>
1810	16	dBa
1945	10	dBa
2059	0	dBa
2333	0	dBa
2220	0	dBa
2093	0	dBa
1950	10	dBa
1827	10	dBa
1698	11	dBa
1580	12	dBa
2694	0	dBa
2577	0	dBa
2471	0	dBa
2360	0	dBa
2251	0	dBa
3419	0	dBa
3424	0	dBa
3250	0	dBa
4334	0	dBa
4268	0	dBa
4202	0	dBa
4143	0	dBa
4121	0	dBa
874	19	dBa
855	20	dBa
851	20	dBa
734	21	dBa
705	21	dBa
714	14	dBa
749	14	dBa
2624	0	dBa
2637	0	dBa
2657	0	dBa
2685	0	dBa
2705	0	dBa
2738	0	dBa
2427	0	dBa
2428	0	dBa
2434	0	dBa
2448	0	dBa
2468	0	dBa
2497	0	dBa
2517	0	dBa
2552	0	dBa
2243	0	dBa
2246	0	dBa
2258	0	dBa
2279	0	dBa

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
1915	16	dBa
2049	0	dBa
2163	0	dBa
2430	0	dBa
2309	0	dBa
2180	0	dBa
2035	0	dBa
1909	10	dBa
1777	11	dBa
1655	11	dBa
2769	0	dBa
2650	0	dBa
2541	0	dBa
2427	0	dBa
2315	0	dBa
3438	0	dBa
3434	0	dBa
3265	0	dBa
4360	0	dBa
4291	0	dBa
4221	0	dBa
4160	0	dBa
4123	0	dBa
877	20	dBa
844	20	dBa
819	21	dBa
743	21	dBa
683	22	dBa
673	19	dBa
689	19	dBa
2603	0	dBa
2621	0	dBa
2647	0	dBa
2681	0	dBa
2704	0	dBa
2742	0	dBa
2396	0	dBa
2403	0	dBa
2414	0	dBa
2433	0	dBa
2460	0	dBa
2495	0	dBa
2518	0	dBa
2558	0	dBa
2213	0	dBa
2223	0	dBa
2242	0	dBa
2270	0	dBa

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
1945	12	dBa
2078	0	dBa
2191	0	dBa
2444	0	dBa
2312	0	dBa
2179	0	dBa
2031	0	dBa
1902	10	dBa
1766	11	dBa
1641	11	dBa
2752	0	dBa
2630	0	dBa
2519	0	dBa
2401	0	dBa
2286	0	dBa
3368	0	dBa
3357	0	dBa
3191	0	dBa
4295	0	dBa
4223	0	dBa
4151	0	dBa
4087	0	dBa
4041	0	dBa
802	20	dBa
760	21	dBa
724	21	dBa
673	22	dBa
594	23	dBa
575	16	dBa
584	20	dBa
2510	0	dBa
2531	0	dBa
2559	0	dBa
2597	0	dBa
2621	0	dBa
2662	0	dBa
2299	0	dBa
2308	0	dBa
2321	0	dBa
2343	0	dBa
2373	0	dBa
2412	0	dBa
2437	0	dBa
2479	0	dBa
2115	0	dBa
2128	0	dBa
2152	0	dBa
2183	0	dBa

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
2002	0	dBa
2132	0	dBa
2243	0	dBa
2475	0	dBa
2324	0	dBa
2186	0	dBa
2034	0	dBa
1901	10	dBa
1760	11	dBa
1629	12	dBa
2731	0	dBa
2605	0	dBa
2489	0	dBa
2367	0	dBa
2246	0	dBa
3257	0	dBa
3235	0	dBa
3075	0	dBa
4190	0	dBa
4115	0	dBa
4038	0	dBa
3971	0	dBa
3909	0	dBa
696	26	dBa
637	26	dBa
577	27	dBa
584	27	dBa
465	29	dBa
423	23	dBa
415	23	dBa
2360	0	dBa
2385	0	dBa
2418	0	dBa
2461	0	dBa
2489	0	dBa
2535	0	dBa
2142	0	dBa
2155	0	dBa
2171	0	dBa
2199	0	dBa
2234	0	dBa
2279	0	dBa
2308	0	dBa
2356	0	dBa
1959	16	dBa
1977	16	dBa
2007	0	dBa
2045	0	dBa

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR099**

**Point of Reception Description**  
 House 71 (WB R20)

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
370967	4907225	130.5

**Point of Reception ID**  
**POR100**

**Point of Reception Description**  
 House 72 (WB R19)

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
370930	4907207	130.5

**Point of Reception ID**  
**POR101**

**Point of Reception Description**  
 Vacant Lot Receptor 29 (WB V17)

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
370902	4907096	132.5

**Point of Reception ID**  
**POR102**

**Point of Reception Description**  
 House 73 (WB R18)

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
370804	4907054	129.1

**Point of Reception ID**  
**POR103**

**Point of Reception Description**  
 Vacant Lot Receptor 30 (WB V8)

Point of reception coordinates		
X	Y	Z <sup>(1)</sup>
370645	4906988	131.5

Source ID <sup>(1)</sup>	Source Description
MVPP_P14A_U19	MVPP P14A_U19
MVPP_P14A_U20	MVPP P14A_U20
MVPP_P14A_U21	MVPP P14A_U21
MVPP_P14B_U1	MVPP P14B_U1
MVPP_P14B_U2	MVPP P14B_U2
MVPP_P14B_U3	MVPP P14B_U3
MVPP_P14B_U4	MVPP P14B_U4
MVPP_P14B_U5	MVPP P14B_U5
MVPP_P14B_U6	MVPP P14B_U6
MVPP_P14B_U7	MVPP P14B_U7
MVPP_P14B_U8	MVPP P14B_U8
MVPP_P14C_U1	MVPP P14C_U1
MVPP_P14C_U2	MVPP P14C_U2
MVPP_P14C_U3	MVPP P14C_U3
MVPP_P14C_U4	MVPP P14C_U4
MVPP_P19_20_U1	MVPP P19/20_U1
MVPP_P19_U1	MVPP P19_U1
MVPP_P19_U2	MVPP P19_U2
MVPP_P19_U3	MVPP P19_U3
MVPP_P19_U4	MVPP P19_U4
MVPP_P19_U5	MVPP P19_U5
MVPP_P20_U1	MVPP P20_U1
MVPP_P21_U1	MVPP P21_U1
MVPP_P21_U2	MVPP P21_U2
MVPP_P21_U3	MVPP P21_U3
MVPP_P21_U4	MVPP P21_U4
MVPP_P21_U5	MVPP P21_U5
MVPP_P21_U6	MVPP P21_U6
MVPP_P21_U7	MVPP P21_U7
MVPP_P21_U8	MVPP P21_U8
MVPP_P21_U9	MVPP P21_U9
MVPP_P22_U1	MVPP P22_U1
MVPP_P22_U2	MVPP P22_U2
MVPP_P22_U3	MVPP P22_U3
MVPP_P22_U4	MVPP P22_U4
MVPP_P22_U5	MVPP P22_U5
MVPP_P22_U6	MVPP P22_U6
MVPP_P23_U1	MVPP P23_U1
MVPP_P23_U2	MVPP P23_U2
MVPP_P23_U3	MVPP P23_U3
MVPP_P23_U4	MVPP P23_U4
MVPP_P23_U5	MVPP P23_U5
MVPP_P23_U6	MVPP P23_U6
MVPP_P23_U7	MVPP P23_U7
MVPP_P24_U1	MVPP P24_U1
MVPP_P24_U2	MVPP P24_U2
MVPP_P24_U3	MVPP P24_U3
TS	Transformer Station
WB_H1T	Hut 1 Transformer
WB_H1I1	Hut 1 Inverter 1
WB_H1I2	Hut 1 Inverter 2

Distance (m)	Sound Level at PoR	Units <sup>(2)</sup>
2340	0	dB(A)
2379	0	dB(A)
2419	0	dB(A)
2860	0	dB(A)
2877	0	dB(A)
2900	0	dB(A)
2917	0	dB(A)
2949	0	dB(A)
3074	0	dB(A)
3100	0	dB(A)
3140	0	dB(A)
3322	0	dB(A)
3330	0	dB(A)
3342	0	dB(A)
3194	0	dB(A)
5002	0	dB(A)
5006	0	dB(A)
5039	0	dB(A)
5077	0	dB(A)
5209	0	dB(A)
5245	0	dB(A)
5468	0	dB(A)
6192	0	dB(A)
6208	0	dB(A)
6225	0	dB(A)
6244	0	dB(A)
6262	0	dB(A)
6283	0	dB(A)
6306	0	dB(A)
6331	0	dB(A)
6366	0	dB(A)
6353	0	dB(A)
6371	0	dB(A)
6409	0	dB(A)
6439	0	dB(A)
6468	0	dB(A)
6583	0	dB(A)
6568	0	dB(A)
6583	0	dB(A)
6602	0	dB(A)
6623	0	dB(A)
6651	0	dB(A)
6679	0	dB(A)
6708	0	dB(A)
6266	0	dB(A)
6197	0	dB(A)
6041	0	dB(A)
2182	0	dB(A)
1653	-5	dB(A)
1657	6	dB(A)
1655	6	dB(A)

Distance (m)	Sound Level at PoR	Units <sup>(2)</sup>
2308	0	dB(A)
2348	0	dB(A)
2389	0	dB(A)
2824	0	dB(A)
2842	0	dB(A)
2866	0	dB(A)
2884	0	dB(A)
2917	0	dB(A)
3040	0	dB(A)
3067	0	dB(A)
3109	0	dB(A)
3286	0	dB(A)
3294	0	dB(A)
3307	0	dB(A)
3158	0	dB(A)
4962	0	dB(A)
4967	0	dB(A)
5000	0	dB(A)
5038	0	dB(A)
5170	0	dB(A)
5206	0	dB(A)
5429	0	dB(A)
6151	0	dB(A)
6167	0	dB(A)
6185	0	dB(A)
6204	0	dB(A)
6222	0	dB(A)
6243	0	dB(A)
6266	0	dB(A)
6291	0	dB(A)
6326	0	dB(A)
6313	0	dB(A)
6331	0	dB(A)
6368	0	dB(A)
6399	0	dB(A)
6428	0	dB(A)
6544	0	dB(A)
6527	0	dB(A)
6542	0	dB(A)
6562	0	dB(A)
6583	0	dB(A)
6611	0	dB(A)
6639	0	dB(A)
6668	0	dB(A)
6225	0	dB(A)
6156	0	dB(A)
6000	0	dB(A)
2170	0	dB(A)
1613	-5	dB(A)
1617	6	dB(A)
1615	6	dB(A)

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2306	0	dB(A)
2353	0	dB(A)
2400	0	dB(A)
2808	0	dB(A)
2831	0	dB(A)
2860	0	dB(A)
2881	0	dB(A)
2919	0	dB(A)
3030	0	dB(A)
3062	0	dB(A)
3110	0	dB(A)
3262	0	dB(A)
3275	0	dB(A)
3291	0	dB(A)
3142	0	dB(A)
4920	0	dB(A)
4927	0	dB(A)
4963	0	dB(A)
5003	0	dB(A)
5130	0	dB(A)
5169	0	dB(A)
5393	0	dB(A)
6091	0	dB(A)
6110	0	dB(A)
6130	0	dB(A)
6152	0	dB(A)
6172	0	dB(A)
6195	0	dB(A)
6220	0	dB(A)
6247	0	dB(A)
6284	0	dB(A)
6254	0	dB(A)
6274	0	dB(A)
6315	0	dB(A)
6349	0	dB(A)
6380	0	dB(A)
6498	0	dB(A)
6468	0	dB(A)
6485	0	dB(A)
6507	0	dB(A)
6530	0	dB(A)
6561	0	dB(A)
6591	0	dB(A)
6622	0	dB(A)
6160	0	dB(A)
6092	0	dB(A)
5934	0	dB(A)
2233	0	dB(A)
1522	-2	dB(A)
1526	9	dB(A)
1524	9	dB(A)

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2222	0	dB(A)
2274	0	dB(A)
2325	0	dB(A)
2717	0	dB(A)
2742	0	dB(A)
2774	0	dB(A)
2796	0	dB(A)
2837	0	dB(A)
2943	0	dB(A)
2977	0	dB(A)
3028	0	dB(A)
3167	0	dB(A)
3182	0	dB(A)
3199	0	dB(A)
3050	0	dB(A)
4818	0	dB(A)
4826	0	dB(A)
4862	0	dB(A)
4904	0	dB(A)
5029	0	dB(A)
5068	0	dB(A)
5293	0	dB(A)
5985	0	dB(A)
6004	0	dB(A)
6025	0	dB(A)
6048	0	dB(A)
6068	0	dB(A)
6091	0	dB(A)
6117	0	dB(A)
6144	0	dB(A)
6182	0	dB(A)
6148	0	dB(A)
6169	0	dB(A)
6210	0	dB(A)
6244	0	dB(A)
6276	0	dB(A)
6395	0	dB(A)
6362	0	dB(A)
6380	0	dB(A)
6402	0	dB(A)
6426	0	dB(A)
6457	0	dB(A)
6487	0	dB(A)
6519	0	dB(A)
6053	0	dB(A)
5986	0	dB(A)
5827	0	dB(A)
2204	0	dB(A)
1419	-4	dB(A)
1423	8	dB(A)
1421	8	dB(A)

Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
2091	0	dB(A)
2150	0	dB(A)
2207	0	dB(A)
2570	0	dB(A)
2599	0	dB(A)
2636	0	dB(A)
2662	0	dB(A)
2707	0	dB(A)
2802	0	dB(A)
2841	0	dB(A)
2898	0	dB(A)
3014	0	dB(A)
3032	0	dB(A)
3052	0	dB(A)
2903	0	dB(A)
4652	0	dB(A)
4662	0	dB(A)
4699	0	dB(A)
4742	0	dB(A)
4865	0	dB(A)
4905	0	dB(A)
5130	0	dB(A)
5814	0	dB(A)
5833	0	dB(A)
5854	0	dB(A)
5879	0	dB(A)
5899	0	dB(A)
5923	0	dB(A)
5949	0	dB(A)
5977	0	dB(A)
6016	0	dB(A)
5976	0	dB(A)
5998	0	dB(A)
6040	0	dB(A)
6075	0	dB(A)
6108	0	dB(A)
6228	0	dB(A)
6191	0	dB(A)
6209	0	dB(A)
6231	0	dB(A)
6256	0	dB(A)
6288	0	dB(A)
6319	0	dB(A)
6351	0	dB(A)
5881	0	dB(A)
5814	0	dB(A)
5655	0	dB(A)
2165	0	dB(A)
1254	0	dB(A)
1258	11	dB(A)
1256	11	dB(A)



**Appendix H: Point of Reception Noise Impac**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID
POR104	POR105	POR106	POR107	POR108
Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description
Vacant Lot Receptor 31 (WB V6)	Vacant Lot Receptor 32 (WB V10)	House 74 (WB V5)	Vacant Lot Receptor 33 (WB V19)	Vacant Lot Receptor 34 (WB V7)
Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates	Point of reception coordinates
X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>	X Y Z <sup>[3]</sup>
370603 4907066 132.7	370408 4906967 130.5	370350 4906948 127.2	370372 4906952 130.4	370400 4906775 129.9

Source ID <sup>[1]</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_1_U1	MVPP P2/1_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
1924	16	dBA
2053	0	dBA
2163	0	dBA
2391	0	dBA
2238	0	dBA
2099	0	dBA
1947	10	dBA
1813	11	dBA
1671	11	dBA
1541	12	dBA
2642	0	dBA
2516	0	dBA
2401	0	dBA
2278	0	dBA
2158	0	dBA
3183	0	dBA
3166	0	dBA
3003	0	dBA
4114	0	dBA
4040	0	dBA
3965	0	dBA
3899	0	dBA
3845	0	dBA
618	27	dBA
566	27	dBA
522	28	dBA
501	29	dBA
397	30	dBA
374	24	dBA
393	24	dBA
2309	0	dBA
2330	0	dBA
2360	0	dBA
2399	0	dBA
2425	0	dBA
2468	0	dBA
2097	0	dBA
2106	0	dBA
2119	0	dBA
2143	0	dBA
2174	0	dBA
2215	0	dBA
2242	0	dBA
2287	0	dBA
1914	16	dBA
1927	16	dBA
1951	16	dBA
1984	10	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
2034	0	dBA
2159	0	dBA
2265	0	dBA
2465	0	dBA
2290	0	dBA
2147	0	dBA
1990	10	dBA
1853	10	dBA
1707	11	dBA
1571	12	dBA
2648	0	dBA
2518	0	dBA
2398	0	dBA
2270	0	dBA
2142	0	dBA
3061	0	dBA
3028	0	dBA
2874	0	dBA
4001	0	dBA
3922	0	dBA
3841	0	dBA
3769	0	dBA
3691	0	dBA
536	28	dBA
453	29	dBA
359	31	dBA
461	29	dBA
287	33	dBA
206	28	dBA
178	29	dBA
2129	0	dBA
2158	0	dBA
2195	0	dBA
2243	0	dBA
2274	0	dBA
2324	0	dBA
1906	16	dBA
1922	16	dBA
1941	16	dBA
1973	16	dBA
2012	0	dBA
2063	0	dBA
2096	0	dBA
2149	0	dBA
1724	17	dBA
1746	17	dBA
1781	17	dBA
1824	11	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
2060	0	dBA
2183	0	dBA
2289	0	dBA
2480	0	dBA
2299	0	dBA
2155	0	dBA
1998	10	dBA
1860	10	dBA
1712	11	dBA
1575	12	dBA
2644	0	dBA
2512	0	dBA
2391	0	dBA
2262	0	dBA
2133	0	dBA
3022	0	dBA
2984	0	dBA
2833	0	dBA
3963	0	dBA
3883	0	dBA
3800	0	dBA
3727	0	dBA
3643	0	dBA
518	27	dBA
428	29	dBA
317	32	dBA
459	29	dBA
271	33	dBA
171	30	dBA
117	33	dBA
2076	0	dBA
2106	0	dBA
2145	0	dBA
2195	0	dBA
2227	0	dBA
2280	0	dBA
1850	16	dBA
1867	16	dBA
1888	16	dBA
1922	16	dBA
1963	10	dBA
2016	0	dBA
2050	0	dBA
2106	0	dBA
1668	17	dBA
1692	17	dBA
1729	17	dBA
1775	11	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
2053	0	dBA
2177	0	dBA
2283	0	dBA
2477	0	dBA
2299	0	dBA
2154	0	dBA
1998	10	dBA
1860	10	dBA
1713	11	dBA
1576	12	dBA
2648	0	dBA
2517	0	dBA
2396	0	dBA
2267	0	dBA
2139	0	dBA
3038	0	dBA
3002	0	dBA
2850	0	dBA
3979	0	dBA
3899	0	dBA
3817	0	dBA
3744	0	dBA
3662	0	dBA
527	28	dBA
439	30	dBA
334	32	dBA
462	29	dBA
278	33	dBA
184	29	dBA
140	32	dBA
2096	0	dBA
2126	0	dBA
2165	0	dBA
2214	0	dBA
2246	0	dBA
2298	0	dBA
1871	16	dBA
1888	16	dBA
1908	16	dBA
1942	16	dBA
1983	10	dBA
2035	0	dBA
2068	0	dBA
2123	0	dBA
1690	17	dBA
1713	17	dBA
1749	17	dBA
1794	11	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
2226	0	dBA
2351	0	dBA
2458	0	dBA
2656	0	dBA
2478	0	dBA
2334	0	dBA
2177	0	dBA
2039	0	dBA
1892	10	dBA
1755	11	dBA
2824	0	dBA
2691	0	dBA
2570	0	dBA
2440	0	dBA
2310	0	dBA
3158	0	dBA
3109	0	dBA
2965	0	dBA
4103	0	dBA
4019	0	dBA
3933	0	dBA
3856	0	dBA
3754	0	dBA
693	26	dBA
597	27	dBA
468	29	dBA
639	26	dBA
449	29	dBA
340	25	dBA
228	28	dBA
2163	0	dBA
2201	0	dBA
2249	0	dBA
2307	0	dBA
2344	0	dBA
2402	0	dBA
1922	16	dBA
1949	16	dBA
1977	16	dBA
2021	0	dBA
2072	0	dBA
2133	0	dBA
2172	0	dBA
2234	0	dBA
1743	17	dBA
1779	17	dBA
1829	17	dBA
1886	10	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR104</b>			Point of Reception ID <b>POR105</b>			Point of Reception ID <b>POR106</b>			Point of Reception ID <b>POR107</b>			Point of Reception ID <b>POR108</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>
		Point of Reception Description Vacant Lot Receptor 31 (WB V6)			Point of Reception Description Vacant Lot Receptor 32 (WB V10)			Point of Reception Description House 74 (WB V5)			Point of Reception Description Vacant Lot Receptor 33 (WB V19)			Point of Reception Description Vacant Lot Receptor 34 (WB V7)		
		Point of reception coordinates X Y Z <sup>(5)</sup> 370603 4907066 132.7			Point of reception coordinates X Y Z <sup>(5)</sup> 370408 4906967 130.5			Point of reception coordinates X Y Z <sup>(5)</sup> 370350 4906948 127.2			Point of reception coordinates X Y Z <sup>(5)</sup> 370372 4906952 130.4			Point of reception coordinates X Y Z <sup>(5)</sup> 370400 4906775 129.9		
MVPP_P14A_U19	MVPP P14A_U19	2026	0	dBA	1876	10	dBA	1830	10	dBA	1849	10	dBA	1950	10	dBA
MVPP_P14A_U20	MVPP P14A_U20	2081	0	dBA	1943	10	dBA	1900	10	dBA	1917	10	dBA	2028	0	dBA
MVPP_P14A_U21	MVPP P14A_U21	2135	0	dBA	2007	0	dBA	1966	10	dBA	1983	10	dBA	2101	0	dBA
MVPP_P14B_U1	MVPP P14B_U1	2516	0	dBA	2342	0	dBA	2289	0	dBA	2309	0	dBA	2381	0	dBA
MVPP_P14B_U2	MVPP P14B_U2	2542	0	dBA	2374	0	dBA	2323	0	dBA	2343	0	dBA	2422	0	dBA
MVPP_P14B_U3	MVPP P14B_U3	2575	0	dBA	2415	0	dBA	2365	0	dBA	2385	0	dBA	2472	0	dBA
MVPP_P14B_U4	MVPP P14B_U4	2599	0	dBA	2443	0	dBA	2395	0	dBA	2414	0	dBA	2506	0	dBA
MVPP_P14B_U5	MVPP P14B_U5	2642	0	dBA	2493	0	dBA	2447	0	dBA	2465	0	dBA	2565	0	dBA
MVPP_P14B_U6	MVPP P14B_U6	2743	0	dBA	2578	0	dBA	2527	0	dBA	2547	0	dBA	2628	0	dBA
MVPP_P14B_U7	MVPP P14B_U7	2779	0	dBA	2620	0	dBA	2572	0	dBA	2591	0	dBA	2680	0	dBA
MVPP_P14B_U8	MVPP P14B_U8	2833	0	dBA	2683	0	dBA	2637	0	dBA	2655	0	dBA	2753	0	dBA
MVPP_P14C_U1	MVPP P14C_U1	2965	0	dBA	2781	0	dBA	2725	0	dBA	2746	0	dBA	2801	0	dBA
MVPP_P14C_U2	MVPP P14C_U2	2980	0	dBA	2800	0	dBA	2746	0	dBA	2767	0	dBA	2829	0	dBA
MVPP_P14C_U3	MVPP P14C_U3	2998	0	dBA	2823	0	dBA	2769	0	dBA	2790	0	dBA	2858	0	dBA
MVPP_P14C_U4	MVPP P14C_U4	2849	0	dBA	2673	0	dBA	2620	0	dBA	2640	0	dBA	2709	0	dBA
MVPP_P19_20_U1	MVPP P19/20_U1	4619	0	dBA	4414	0	dBA	4355	0	dBA	4377	0	dBA	4390	0	dBA
MVPP_P19_U1	MVPP P19_U1	4627	0	dBA	4424	0	dBA	4365	0	dBA	4387	0	dBA	4406	0	dBA
MVPP_P19_U2	MVPP P19_U2	4662	0	dBA	4461	0	dBA	4402	0	dBA	4424	0	dBA	4447	0	dBA
MVPP_P19_U3	MVPP P19_U3	4703	0	dBA	4504	0	dBA	4446	0	dBA	4468	0	dBA	4495	0	dBA
MVPP_P19_U4	MVPP P19_U4	4830	0	dBA	4627	0	dBA	4567	0	dBA	4589	0	dBA	4608	0	dBA
MVPP_P19_U5	MVPP P19_U5	4868	0	dBA	4667	0	dBA	4608	0	dBA	4630	0	dBA	4653	0	dBA
MVPP_P20_U1	MVPP P20_U1	5093	0	dBA	4892	0	dBA	4834	0	dBA	4856	0	dBA	4880	0	dBA
MVPP_P21_U1	MVPP P21_U1	5796	0	dBA	5581	0	dBA	5520	0	dBA	5542	0	dBA	5520	0	dBA
MVPP_P21_U2	MVPP P21_U2	5814	0	dBA	5599	0	dBA	5538	0	dBA	5560	0	dBA	5544	0	dBA
MVPP_P21_U3	MVPP P21_U3	5833	0	dBA	5619	0	dBA	5558	0	dBA	5580	0	dBA	5568	0	dBA
MVPP_P21_U4	MVPP P21_U4	5854	0	dBA	5642	0	dBA	5582	0	dBA	5604	0	dBA	5598	0	dBA
MVPP_P21_U5	MVPP P21_U5	5873	0	dBA	5662	0	dBA	5601	0	dBA	5624	0	dBA	5621	0	dBA
MVPP_P21_U6	MVPP P21_U6	5895	0	dBA	5686	0	dBA	5625	0	dBA	5648	0	dBA	5648	0	dBA
MVPP_P21_U7	MVPP P21_U7	5920	0	dBA	5712	0	dBA	5651	0	dBA	5674	0	dBA	5678	0	dBA
MVPP_P21_U8	MVPP P21_U8	5946	0	dBA	5739	0	dBA	5679	0	dBA	5701	0	dBA	5709	0	dBA
MVPP_P21_U9	MVPP P21_U9	5983	0	dBA	5778	0	dBA	5718	0	dBA	5740	0	dBA	5752	0	dBA
MVPP_P22_U1	MVPP P22_U1	5959	0	dBA	5743	0	dBA	5682	0	dBA	5704	0	dBA	5683	0	dBA
MVPP_P22_U2	MVPP P22_U2	5978	0	dBA	5763	0	dBA	5702	0	dBA	5724	0	dBA	5709	0	dBA
MVPP_P22_U3	MVPP P22_U3	6017	0	dBA	5804	0	dBA	5743	0	dBA	5766	0	dBA	5756	0	dBA
MVPP_P22_U4	MVPP P22_U4	6050	0	dBA	5839	0	dBA	5778	0	dBA	5800	0	dBA	5796	0	dBA
MVPP_P22_U5	MVPP P22_U5	6081	0	dBA	5871	0	dBA	5811	0	dBA	5833	0	dBA	5833	0	dBA
MVPP_P22_U6	MVPP P22_U6	6198	0	dBA	5991	0	dBA	5930	0	dBA	5953	0	dBA	5959	0	dBA
MVPP_P23_U1	MVPP P23_U1	6173	0	dBA	5957	0	dBA	5896	0	dBA	5919	0	dBA	5898	0	dBA
MVPP_P23_U2	MVPP P23_U2	6189	0	dBA	5975	0	dBA	5914	0	dBA	5936	0	dBA	5919	0	dBA
MVPP_P23_U3	MVPP P23_U3	6210	0	dBA	5996	0	dBA	5935	0	dBA	5957	0	dBA	5945	0	dBA
MVPP_P23_U4	MVPP P23_U4	6232	0	dBA	6020	0	dBA	5959	0	dBA	5981	0	dBA	5973	0	dBA
MVPP_P23_U5	MVPP P23_U5	6262	0	dBA	6051	0	dBA	5990	0	dBA	6013	0	dBA	6009	0	dBA
MVPP_P23_U6	MVPP P23_U6	6291	0	dBA	6081	0	dBA	6021	0	dBA	6043	0	dBA	6044	0	dBA
MVPP_P23_U7	MVPP P23_U7	6322	0	dBA	6114	0	dBA	6054	0	dBA	6076	0	dBA	6081	0	dBA
MVPP_P24_U1	MVPP P24_U1	5869	0	dBA	5651	0	dBA	5590	0	dBA	5612	0	dBA	5579	0	dBA
MVPP_P24_U2	MVPP P24_U2	5800	0	dBA	5583	0	dBA	5522	0	dBA	5544	0	dBA	5515	0	dBA
MVPP_P24_U3	MVPP P24_U3	5644	0	dBA	5426	0	dBA	5365	0	dBA	5387	0	dBA	5353	0	dBA
TS	Transformer Station	2076	0	dBA	2062	0	dBA	2053	0	dBA	2059	0	dBA	2231	0	dBA
WB_HIT	Hut 1 Transformer	1275	0	dBA	1068	2	dBA	1015	1	dBA	1033	2	dBA	929	4	dBA
WB_H111	Hut 1 Inverter 1	1279	11	dBA	1072	13	dBA	1020	12	dBA	1037	13	dBA	933	15	dBA
WB_H112	Hut 1 Inverter 2	1277	11	dBA	1071	13	dBA	1018	12	dBA	1035	13	dBA	931	15	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR104**

**Point of Reception Description**  
 Vacant Lot Receptor 31 (WB V6)

Point of reception coordinates		
X	Y	Z <sup>[5]</sup>
370603	4907066	132.7

**Point of Reception ID**  
**POR105**

**Point of Reception Description**  
 Vacant Lot Receptor 32 (WB V10)

Point of reception coordinates		
X	Y	Z <sup>[5]</sup>
370408	4906967	130.5

**Point of Reception ID**  
**POR106**

**Point of Reception Description**  
 House 74 (WB V5)

Point of reception coordinates		
X	Y	Z <sup>[5]</sup>
370350	4906948	127.2

**Point of Reception ID**  
**POR107**

**Point of Reception Description**  
 Vacant Lot Receptor 33 (WB V19)

Point of reception coordinates		
X	Y	Z <sup>[5]</sup>
370372	4906952	130.4

**Point of Reception ID**  
**POR108**

**Point of Reception Description**  
 Vacant Lot Receptor 34 (WB V7)

Point of reception coordinates		
X	Y	Z <sup>[5]</sup>
370400	4906775	129.9

Source ID <sup>[1]</sup>	Source Description
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
1411	-1	dBA
1415	10	dBA
1413	10	dBA
1557	-2	dBA
1560	9	dBA
1558	9	dBA
1279	0	dBA
1282	11	dBA
1280	11	dBA
873	4	dBA
877	15	dBA
875	15	dBA
1053	2	dBA
1056	13	dBA
1054	13	dBA
1003	3	dBA
1007	14	dBA
1005	14	dBA
1134	1	dBA
1137	12	dBA
1135	12	dBA
1393	-1	dBA
1397	10	dBA
1394	10	dBA
1220	1	dBA
1224	12	dBA
1221	12	dBA
1352	12	dBA
5408	0	dBA
5601	0	dBA
5483	0	dBA
5653	0	dBA
5538	0	dBA
5709	0	dBA
5595	0	dBA
5767	0	dBA
5657	0	dBA
5828	0	dBA
5720	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
1198	1	dBA
1202	12	dBA
1200	12	dBA
1340	-1	dBA
1344	10	dBA
1342	10	dBA
1061	2	dBA
1064	13	dBA
1062	13	dBA
656	7	dBA
660	18	dBA
658	18	dBA
839	5	dBA
843	16	dBA
841	16	dBA
785	5	dBA
788	16	dBA
786	17	dBA
915	4	dBA
918	15	dBA
916	15	dBA
1175	1	dBA
1178	12	dBA
1176	12	dBA
1005	3	dBA
1009	14	dBA
1007	14	dBA
1151	14	dBA
5198	0	dBA
5391	0	dBA
5274	0	dBA
5445	0	dBA
5331	0	dBA
5502	0	dBA
5390	0	dBA
5562	0	dBA
5453	0	dBA
5626	0	dBA
5519	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
1142	-1	dBA
1146	10	dBA
1144	10	dBA
1282	-2	dBA
1286	9	dBA
1284	9	dBA
1000	1	dBA
1003	12	dBA
1001	12	dBA
598	6	dBA
602	18	dBA
600	18	dBA
782	4	dBA
786	15	dBA
785	15	dBA
725	4	dBA
728	16	dBA
726	16	dBA
855	3	dBA
858	14	dBA
855	14	dBA
1115	-1	dBA
1118	11	dBA
1116	11	dBA
948	1	dBA
952	12	dBA
950	13	dBA
1101	12	dBA
5143	0	dBA
5336	0	dBA
5219	0	dBA
5390	0	dBA
5277	0	dBA
5449	0	dBA
5337	0	dBA
5509	0	dBA
5401	0	dBA
5573	0	dBA
5468	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
1161	1	dBA
1165	12	dBA
1163	12	dBA
1302	0	dBA
1306	11	dBA
1304	11	dBA
1022	3	dBA
1025	14	dBA
1023	14	dBA
618	8	dBA
622	19	dBA
620	19	dBA
802	5	dBA
806	16	dBA
804	16	dBA
746	6	dBA
749	17	dBA
747	17	dBA
876	4	dBA
879	15	dBA
877	15	dBA
1136	1	dBA
1139	12	dBA
1137	12	dBA
967	3	dBA
971	14	dBA
969	14	dBA
1117	14	dBA
5162	0	dBA
5355	0	dBA
5238	0	dBA
5409	0	dBA
5295	0	dBA
5467	0	dBA
5355	0	dBA
5527	0	dBA
5418	0	dBA
5591	0	dBA
5485	0	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
1075	2	dBA
1079	13	dBA
1077	13	dBA
1230	0	dBA
1234	11	dBA
1231	11	dBA
1000	3	dBA
1003	14	dBA
1000	14	dBA
558	9	dBA
561	20	dBA
559	20	dBA
722	6	dBA
725	17	dBA
723	17	dBA
703	7	dBA
706	18	dBA
704	18	dBA
845	5	dBA
848	16	dBA
845	16	dBA
1086	2	dBA
1089	13	dBA
1087	13	dBA
891	4	dBA
894	15	dBA
892	15	dBA
1001	16	dBA
5062	0	dBA
5254	0	dBA
5135	0	dBA
5304	0	dBA
5188	0	dBA
5359	0	dBA
5244	0	dBA
5416	0	dBA
5304	0	dBA
5476	0	dBA
5367	0	dBA



**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID										
POR109	POR110	POR111	POR112	POR113										
Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description										
Vacant Lot Receptor 35 (WB V4)	House 75 (WB Receptor 17)	House 76 (WB R16)	Vacant Lot Receptor 36 (WB V3)	House 77 (WB R15)										
Point of reception coordinates			Point of reception coordinates		Point of reception coordinates		Point of reception coordinates		Point of reception coordinates					
X	Y	Z <sup>[3]</sup>	X	Y	Z <sup>[3]</sup>	X	Y	Z <sup>[3]</sup>	X	Z	Z <sup>[5]</sup>			
370294	4906668	129.3	370307	4906548	126.3	370314	4906430	125.6	369878	4906079	126.5	369827	4906079	123.3

Source ID <sup>[1]</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_1_U1	MVPP P2/1_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>[5]</sup>	Units <sup>[2]</sup>
2345	0	dBA
2467	0	dBA
2572	0	dBA
2756	0	dBA
2569	0	dBA
2423	0	dBA
2264	0	dBA
2126	0	dBA
1977	10	dBA
1839	10	dBA
2887	0	dBA
2753	0	dBA
2629	0	dBA
2497	0	dBA
2365	0	dBA
3133	0	dBA
3071	0	dBA
2935	0	dBA
4081	0	dBA
3993	0	dBA
3903	0	dBA
3821	0	dBA
3699	0	dBA
751	25	dBA
646	26	dBA
498	29	dBA
723	25	dBA
525	28	dBA
406	23	dBA
268	26	dBA
2091	0	dBA
2136	0	dBA
2192	0	dBA
2258	0	dBA
2298	0	dBA
2363	0	dBA
1839	17	dBA
1874	16	dBA
1909	16	dBA
1961	16	dBA
2019	0	dBA
2090	0	dBA
2133	0	dBA
2201	0	dBA
1664	18	dBA
1710	17	dBA
1771	17	dBA
1836	10	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
2462	0	dBA
2585	0	dBA
2690	0	dBA
2877	0	dBA
2690	0	dBA
2543	0	dBA
2385	0	dBA
2247	0	dBA
2098	0	dBA
1960	10	dBA
3005	0	dBA
2871	0	dBA
2747	0	dBA
2614	0	dBA
2481	0	dBA
3217	0	dBA
3147	0	dBA
3015	0	dBA
4166	0	dBA
4076	0	dBA
3982	0	dBA
3898	0	dBA
3762	0	dBA
870	23	dBA
765	24	dBA
614	26	dBA
844	23	dBA
646	26	dBA
526	21	dBA
389	24	dBA
2144	0	dBA
2195	0	dBA
2256	0	dBA
2327	0	dBA
2371	0	dBA
2440	0	dBA
2440	0	dBA
1883	16	dBA
1925	16	dBA
1965	15	dBA
2023	0	dBA
2087	0	dBA
2163	0	dBA
2209	0	dBA
2282	0	dBA
1712	17	dBA
1766	16	dBA
1835	16	dBA
1907	10	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
2579	0	dBA
2702	0	dBA
2808	0	dBA
2995	0	dBA
2808	0	dBA
2661	0	dBA
2503	0	dBA
2364	0	dBA
2216	0	dBA
2078	0	dBA
3120	0	dBA
2985	0	dBA
2860	0	dBA
2727	0	dBA
2594	0	dBA
3297	0	dBA
3218	0	dBA
3092	0	dBA
4246	0	dBA
4153	0	dBA
4057	0	dBA
3971	0	dBA
3822	0	dBA
986	22	dBA
880	23	dBA
727	24	dBA
962	18	dBA
764	24	dBA
644	20	dBA
506	22	dBA
2196	0	dBA
2251	0	dBA
2317	0	dBA
2394	0	dBA
2440	0	dBA
2513	0	dBA
1927	16	dBA
1975	15	dBA
2020	0	dBA
2084	0	dBA
2153	0	dBA
2234	0	dBA
2283	0	dBA
2359	0	dBA
1760	16	dBA
1822	16	dBA
1898	16	dBA
1976	10	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[2]</sup>
3004	0	dBA
3119	0	dBA
3217	0	dBA
3360	0	dBA
3142	0	dBA
2992	0	dBA
2833	0	dBA
2694	0	dBA
2546	0	dBA
2407	0	dBA
3363	0	dBA
3224	0	dBA
3096	0	dBA
2957	0	dBA
2819	0	dBA
3234	0	dBA
3109	0	dBA
3017	0	dBA
4174	0	dBA
4068	0	dBA
3958	0	dBA
3857	0	dBA
3637	0	dBA
1322	20	dBA
1215	21	dBA
1060	22	dBA
1352	20	dBA
1162	21	dBA
1050	15	dBA
922	17	dBA
2004	0	dBA
2084	0	dBA
2175	0	dBA
2277	0	dBA
2337	0	dBA
2429	0	dBA
1708	17	dBA
1785	17	dBA
1853	17	dBA
1945	16	dBA
2041	0	dBA
2148	0	dBA
2210	0	dBA
2306	0	dBA
1572	18	dBA
1669	18	dBA
1780	17	dBA
1888	10	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
3018	0	dBA
3131	0	dBA
3229	0	dBA
3366	0	dBA
3145	0	dBA
2995	0	dBA
2836	0	dBA
2698	0	dBA
2549	0	dBA
2411	0	dBA
3357	0	dBA
3217	0	dBA
3089	0	dBA
2950	0	dBA
2811	0	dBA
3202	0	dBA
3074	0	dBA
2984	0	dBA
4140	0	dBA
4034	0	dBA
3922	0	dBA
3820	0	dBA
3596	0	dBA
1331	19	dBA
1225	20	dBA
1072	21	dBA
1366	19	dBA
1179	20	dBA
1069	15	dBA
943	16	dBA
1965	15	dBA
2046	0	dBA
2139	0	dBA
2242	0	dBA
2303	0	dBA
2396	0	dBA
1668	17	dBA
1747	16	dBA
1815	16	dBA
1909	16	dBA
2007	0	dBA
2116	0	dBA
2179	0	dBA
2276	0	dBA
1534	18	dBA
1634	17	dBA
1747	16	dBA
1857	10	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR109</b>			Point of Reception ID <b>POR110</b>			Point of Reception ID <b>POR111</b>			Point of Reception ID <b>POR112</b>			Point of Reception ID <b>POR113</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup>
MVPP_P14A_U19	MVPP P14A_U19	1910	10	dB(A)	1987	10	dB(A)	2061	0	dB(A)	2001	0	dB(A)	1971	10	dB(A)
MVPP_P14A_U20	MVPP P14A_U20	1998	10	dB(A)	2080	0	dB(A)	2159	0	dB(A)	2125	0	dB(A)	2097	0	dB(A)
MVPP_P14A_U21	MVPP P14A_U21	2078	0	dB(A)	2165	0	dB(A)	2248	0	dB(A)	2235	0	dB(A)	2208	0	dB(A)
MVPP_P14B_U1	MVPP P14B_U1	2313	0	dB(A)	2368	0	dB(A)	2421	0	dB(A)	2230	0	dB(A)	2190	0	dB(A)
MVPP_P14B_U2	MVPP P14B_U2	2360	0	dB(A)	2420	0	dB(A)	2478	0	dB(A)	2309	0	dB(A)	2270	0	dB(A)
MVPP_P14B_U3	MVPP P14B_U3	2417	0	dB(A)	2482	0	dB(A)	2544	0	dB(A)	2398	0	dB(A)	2361	0	dB(A)
MVPP_P14B_U4	MVPP P14B_U4	2455	0	dB(A)	2523	0	dB(A)	2588	0	dB(A)	2454	0	dB(A)	2418	0	dB(A)
MVPP_P14B_U5	MVPP P14B_U5	2520	0	dB(A)	2592	0	dB(A)	2661	0	dB(A)	2549	0	dB(A)	2514	0	dB(A)
MVPP_P14B_U6	MVPP P14B_U6	2568	0	dB(A)	2628	0	dB(A)	2686	0	dB(A)	2511	0	dB(A)	2471	0	dB(A)
MVPP_P14B_U7	MVPP P14B_U7	2625	0	dB(A)	2690	0	dB(A)	2752	0	dB(A)	2598	0	dB(A)	2560	0	dB(A)
MVPP_P14B_U8	MVPP P14B_U8	2706	0	dB(A)	2776	0	dB(A)	2843	0	dB(A)	2715	0	dB(A)	2679	0	dB(A)
MVPP_P14C_U1	MVPP P14C_U1	2719	0	dB(A)	2761	0	dB(A)	2801	0	dB(A)	2536	0	dB(A)	2491	0	dB(A)
MVPP_P14C_U2	MVPP P14C_U2	2752	0	dB(A)	2799	0	dB(A)	2843	0	dB(A)	2598	0	dB(A)	2554	0	dB(A)
MVPP_P14C_U3	MVPP P14C_U3	2785	0	dB(A)	2836	0	dB(A)	2884	0	dB(A)	2655	0	dB(A)	2612	0	dB(A)
MVPP_P14C_U4	MVPP P14C_U4	2636	0	dB(A)	2688	0	dB(A)	2736	0	dB(A)	2516	0	dB(A)	2474	0	dB(A)
MVPP_P19_20_U1	MVPP P19/20_U1	4279	0	dB(A)	4288	0	dB(A)	4295	0	dB(A)	3882	0	dB(A)	3831	0	dB(A)
MVPP_P19_U1	MVPP P19_U1	4297	0	dB(A)	4310	0	dB(A)	4320	0	dB(A)	3919	0	dB(A)	3868	0	dB(A)
MVPP_P19_U2	MVPP P19_U2	4341	0	dB(A)	4357	0	dB(A)	4370	0	dB(A)	3977	0	dB(A)	3927	0	dB(A)
MVPP_P19_U3	MVPP P19_U3	4391	0	dB(A)	4410	0	dB(A)	4426	0	dB(A)	4043	0	dB(A)	3993	0	dB(A)
MVPP_P19_U4	MVPP P19_U4	4498	0	dB(A)	4511	0	dB(A)	4520	0	dB(A)	4114	0	dB(A)	4063	0	dB(A)
MVPP_P19_U5	MVPP P19_U5	4546	0	dB(A)	4561	0	dB(A)	4573	0	dB(A)	4177	0	dB(A)	4126	0	dB(A)
MVPP_P20_U1	MVPP P20_U1	4774	0	dB(A)	4790	0	dB(A)	4803	0	dB(A)	4407	0	dB(A)	4357	0	dB(A)
MVPP_P21_U1	MVPP P21_U1	5390	0	dB(A)	5375	0	dB(A)	5355	0	dB(A)	4864	0	dB(A)	4814	0	dB(A)
MVPP_P21_U2	MVPP P21_U2	5416	0	dB(A)	5403	0	dB(A)	5387	0	dB(A)	4904	0	dB(A)	4853	0	dB(A)
MVPP_P21_U3	MVPP P21_U3	5442	0	dB(A)	5432	0	dB(A)	5419	0	dB(A)	4943	0	dB(A)	4892	0	dB(A)
MVPP_P21_U4	MVPP P21_U4	5476	0	dB(A)	5471	0	dB(A)	5462	0	dB(A)	4998	0	dB(A)	4947	0	dB(A)
MVPP_P21_U5	MVPP P21_U5	5500	0	dB(A)	5497	0	dB(A)	5491	0	dB(A)	5032	0	dB(A)	4981	0	dB(A)
MVPP_P21_U6	MVPP P21_U6	5529	0	dB(A)	5529	0	dB(A)	5524	0	dB(A)	5072	0	dB(A)	5021	0	dB(A)
MVPP_P21_U7	MVPP P21_U7	5560	0	dB(A)	5562	0	dB(A)	5560	0	dB(A)	5114	0	dB(A)	5063	0	dB(A)
MVPP_P21_U8	MVPP P21_U8	5593	0	dB(A)	5597	0	dB(A)	5597	0	dB(A)	5158	0	dB(A)	5107	0	dB(A)
MVPP_P21_U9	MVPP P21_U9	5638	0	dB(A)	5645	0	dB(A)	5648	0	dB(A)	5217	0	dB(A)	5166	0	dB(A)
MVPP_P22_U1	MVPP P22_U1	5554	0	dB(A)	5538	0	dB(A)	5520	0	dB(A)	5029	0	dB(A)	4978	0	dB(A)
MVPP_P22_U2	MVPP P22_U2	5581	0	dB(A)	5569	0	dB(A)	5554	0	dB(A)	5071	0	dB(A)	5021	0	dB(A)
MVPP_P22_U3	MVPP P22_U3	5631	0	dB(A)	5624	0	dB(A)	5612	0	dB(A)	5140	0	dB(A)	5089	0	dB(A)
MVPP_P22_U4	MVPP P22_U4	5674	0	dB(A)	5670	0	dB(A)	5662	0	dB(A)	5200	0	dB(A)	5149	0	dB(A)
MVPP_P22_U5	MVPP P22_U5	5714	0	dB(A)	5713	0	dB(A)	5708	0	dB(A)	5254	0	dB(A)	5203	0	dB(A)
MVPP_P22_U6	MVPP P22_U6	5842	0	dB(A)	5845	0	dB(A)	5843	0	dB(A)	5399	0	dB(A)	5348	0	dB(A)
MVPP_P23_U1	MVPP P23_U1	5768	0	dB(A)	5753	0	dB(A)	5733	0	dB(A)	5242	0	dB(A)	5191	0	dB(A)
MVPP_P23_U2	MVPP P23_U2	5791	0	dB(A)	5779	0	dB(A)	5762	0	dB(A)	5277	0	dB(A)	5227	0	dB(A)
MVPP_P23_U3	MVPP P23_U3	5819	0	dB(A)	5809	0	dB(A)	5796	0	dB(A)	5318	0	dB(A)	5267	0	dB(A)
MVPP_P23_U4	MVPP P23_U4	5849	0	dB(A)	5842	0	dB(A)	5831	0	dB(A)	5360	0	dB(A)	5309	0	dB(A)
MVPP_P23_U5	MVPP P23_U5	5888	0	dB(A)	5884	0	dB(A)	5876	0	dB(A)	5414	0	dB(A)	5363	0	dB(A)
MVPP_P23_U6	MVPP P23_U6	5924	0	dB(A)	5923	0	dB(A)	5918	0	dB(A)	5463	0	dB(A)	5412	0	dB(A)
MVPP_P23_U7	MVPP P23_U7	5963	0	dB(A)	5965	0	dB(A)	5962	0	dB(A)	5515	0	dB(A)	5464	0	dB(A)
MVPP_P24_U1	MVPP P24_U1	5445	0	dB(A)	5421	0	dB(A)	5394	0	dB(A)	4886	0	dB(A)	4836	0	dB(A)
MVPP_P24_U2	MVPP P24_U2	5382	0	dB(A)	5361	0	dB(A)	5337	0	dB(A)	4835	0	dB(A)	4784	0	dB(A)
MVPP_P24_U3	MVPP P24_U3	5218	0	dB(A)	5193	0	dB(A)	5166	0	dB(A)	4657	0	dB(A)	4607	0	dB(A)
TS	Transformer Station	2286	0	dB(A)	2403	0	dB(A)	2516	0	dB(A)	2747	0	dB(A)	2740	0	dB(A)
WB_HIT	Hut 1 Transformer	779	6	dB(A)	721	4	dB(A)	674	5	dB(A)	214	18	dB(A)	171	19	dB(A)
WB_H111	Hut 1 Inverter 1	783	17	dB(A)	725	16	dB(A)	677	16	dB(A)	213	29	dB(A)	169	31	dB(A)
WB_H112	Hut 1 Inverter 2	782	17	dB(A)	723	16	dB(A)	675	16	dB(A)	211	30	dB(A)	167	31	dB(A)

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR109</b>			Point of Reception ID <b>POR110</b>			Point of Reception ID <b>POR111</b>			Point of Reception ID <b>POR112</b>			Point of Reception ID <b>POR113</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(2)</sup>	Distance (m)	Sound Level at PoR <sup>(3)</sup> (dBA)	Units <sup>(4)</sup> (dBA)
Point of Reception Description Vacant Lot Receptor 35 (WB V4)		Point of Reception Description House 75 (WB Receptor 17)		Point of Reception Description House 76 (WB R16)		Point of Reception Description Vacant Lot Receptor 36 (WB V3)		Point of Reception Description House 77 (WB R15)		Point of Reception Description House 77 (WB R15)		Point of Reception Description House 77 (WB R15)		Point of Reception Description House 77 (WB R15)		
Point of reception coordinates		Point of reception coordinates		Point of reception coordinates		Point of reception coordinates		Point of reception coordinates		Point of reception coordinates		Point of reception coordinates		Point of reception coordinates		
X Y Z <sup>(5)</sup>		X Y Z <sup>(5)</sup>		X Y Z <sup>(5)</sup>		X Y Z <sup>(5)</sup>		X Y Z <sup>(5)</sup>		X Y Z <sup>(5)</sup>		X Y Z <sup>(5)</sup>		X Y Z <sup>(5)</sup>		
370294 4906668 129.3		370307 4906548 126.3		370314 4906430 125.6		370314 4906430 125.6		370314 4906430 125.6		370314 4906430 125.6		370314 4906430 125.6		370314 4906430 125.6		
WB_H2T	Hut 2 Transformer	928	4	dBA	882	2	dBA	846	3	dBA	385	13	dBA	336	13	dBA
WB_H2I1	Hut 2 Inverter 1	931	15	dBA	885	13	dBA	848	14	dBA	385	24	dBA	336	24	dBA
WB_H2I2	Hut 2 Inverter 2	929	15	dBA	883	13	dBA	846	14	dBA	382	24	dBA	333	24	dBA
WB_H3T	Hut 3 Transformer	1086	2	dBA	1050	0	dBA	1020	0	dBA	562	9	dBA	512	8	dBA
WB_H3I1	Hut 3 Inverter 1	1090	13	dBA	1053	11	dBA	1023	12	dBA	563	20	dBA	513	19	dBA
WB_H3I2	Hut 3 Inverter 2	1087	13	dBA	1050	11	dBA	1020	12	dBA	560	20	dBA	510	20	dBA
WB_H4T	Hut 4 Transformer	880	4	dBA	889	2	dBA	908	2	dBA	682	7	dBA	649	6	dBA
WB_H4I1	Hut 4 Inverter 1	881	15	dBA	890	13	dBA	908	13	dBA	679	18	dBA	646	17	dBA
WB_H4I2	Hut 4 Inverter 2	879	15	dBA	888	13	dBA	906	13	dBA	678	18	dBA	645	17	dBA
WB_H5T	Hut 5 Transformer	427	12	dBA	432	10	dBA	463	9	dBA	503	10	dBA	506	8	dBA
WB_H5I1	Hut 5 Inverter 1	429	23	dBA	433	21	dBA	463	21	dBA	499	21	dBA	502	20	dBA
WB_H5I2	Hut 5 Inverter 2	426	23	dBA	431	21	dBA	461	21	dBA	499	21	dBA	502	20	dBA
WB_H6T	Hut 6 Transformer	579	9	dBA	551	7	dBA	543	8	dBA	359	13	dBA	348	12	dBA
WB_H6I1	Hut 6 Inverter 1	582	20	dBA	553	19	dBA	544	19	dBA	355	25	dBA	343	24	dBA
WB_H6I2	Hut 6 Inverter 2	579	20	dBA	551	19	dBA	542	19	dBA	354	25	dBA	343	24	dBA
WB_H7T	Hut 7 Transformer	577	9	dBA	585	7	dBA	609	6	dBA	527	10	dBA	515	8	dBA
WB_H7I1	Hut 7 Inverter 1	579	20	dBA	586	18	dBA	609	18	dBA	523	21	dBA	510	20	dBA
WB_H7I2	Hut 7 Inverter 2	576	20	dBA	583	18	dBA	607	18	dBA	522	21	dBA	510	20	dBA
WB_H8T	Hut 8 Transformer	722	6	dBA	731	4	dBA	752	4	dBA	587	9	dBA	563	7	dBA
WB_H8I1	Hut 8 Inverter 1	724	17	dBA	732	16	dBA	752	15	dBA	583	20	dBA	559	19	dBA
WB_H8I2	Hut 8 Inverter 2	721	17	dBA	729	16	dBA	750	15	dBA	582	20	dBA	558	19	dBA
WB_H9T	Hut 9 Transformer	951	3	dBA	937	1	dBA	931	2	dBA	586	9	dBA	544	8	dBA
WB_H9I1	Hut 9 Inverter 1	954	14	dBA	939	13	dBA	932	13	dBA	584	20	dBA	542	19	dBA
WB_H9I2	Hut 9 Inverter 2	952	14	dBA	936	13	dBA	930	13	dBA	582	20	dBA	540	19	dBA
WB_H10T	Hut 10 Transformer	747	6	dBA	715	5	dBA	696	5	dBA	363	13	dBA	330	13	dBA
WB_H10I1	Hut 10 Inverter 1	750	17	dBA	717	16	dBA	698	16	dBA	361	24	dBA	327	24	dBA
WB_H10I2	Hut 10 Inverter 2	748	17	dBA	715	16	dBA	695	16	dBA	359	25	dBA	326	24	dBA
WB_ST	Substation Transformer	850	17	dBA	779	16	dBA	715	17	dBA	177	33	dBA	126	34	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	4912	0	dBA	4843	0	dBA	4771	0	dBA	4213	0	dBA	4173	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	5104	0	dBA	5033	0	dBA	4961	0	dBA	4402	0	dBA	4363	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	4984	0	dBA	4912	0	dBA	4838	0	dBA	4280	0	dBA	4241	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	5154	0	dBA	5081	0	dBA	5006	0	dBA	4448	0	dBA	4410	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	5038	0	dBA	4963	0	dBA	4886	0	dBA	4329	0	dBA	4292	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	5208	0	dBA	5133	0	dBA	5055	0	dBA	4498	0	dBA	4461	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	5094	0	dBA	5016	0	dBA	4937	0	dBA	4382	0	dBA	4345	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	5265	0	dBA	5187	0	dBA	5108	0	dBA	4552	0	dBA	4516	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	5154	0	dBA	5074	0	dBA	4993	0	dBA	4439	0	dBA	4404	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	5326	0	dBA	5245	0	dBA	5164	0	dBA	4610	0	dBA	4575	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	5217	0	dBA	5135	0	dBA	5052	0	dBA	4500	0	dBA	4466	0	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID	Point of Reception ID										
POR114	POR115	POR116	POR117	POR118										
Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description	Point of Reception Description										
Vacant Lot Receptor 37	Vacant Lot Receptor 38	Vacant Lot Receptor 39	Vacant Lot Receptor 40 (WB V2)	Vacant Lot Receptor 41 (WB V1)										
X	Y	Z <sup>[5]</sup>	X	Y	Z	X	Y	Z	X	Y	Z			
368966	4906833	128.2	368747	4906779	131.0	368537	4906762	133.0	368508	4906042	131.7	368414	4906049	133.3

Source ID <sup>[1]</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_U1	MVPP P2/U1_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
2719	0	dBA
2796	0	dBA
2865	0	dBA
2870	0	dBA
2598	0	dBA
2455	0	dBA
2313	0	dBA
2191	0	dBA
2063	0	dBA
1947	10	dBA
2603	0	dBA
2466	0	dBA
2340	0	dBA
2205	0	dBA
2070	0	dBA
1934	10	dBA
1858	10	dBA
3006	0	dBA
2896	0	dBA
2781	0	dBA
2677	0	dBA
2457	0	dBA
1239	20	dBA
1198	21	dBA
1153	21	dBA
1370	19	dBA
1309	20	dBA
1285	14	dBA
1272	14	dBA
821	24	dBA
901	23	dBA
997	16	dBA
1108	15	dBA
1174	14	dBA
1276	14	dBA
530	28	dBA
602	27	dBA
672	26	dBA
773	25	dBA
881	17	dBA
1003	16	dBA
1075	15	dBA
1184	14	dBA
389	31	dBA
500	29	dBA
631	26	dBA
759	18	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
2898	0	dBA
2970	0	dBA
3034	0	dBA
3018	0	dBA
2740	0	dBA
2601	0	dBA
2463	0	dBA
2347	0	dBA
2225	0	dBA
2115	0	dBA
2698	0	dBA
2565	0	dBA
2441	0	dBA
2309	0	dBA
2178	0	dBA
2010	0	dBA
1839	10	dBA
1787	11	dBA
2916	0	dBA
2800	0	dBA
2679	0	dBA
2568	0	dBA
2312	0	dBA
1460	19	dBA
1421	19	dBA
1379	19	dBA
1593	18	dBA
1534	18	dBA
1510	12	dBA
1495	12	dBA
700	26	dBA
800	24	dBA
913	17	dBA
1039	15	dBA
1112	15	dBA
1223	14	dBA
398	30	dBA
501	28	dBA
591	27	dBA
712	25	dBA
836	17	dBA
970	16	dBA
1047	15	dBA
1164	15	dBA
333	32	dBA
471	29	dBA
620	27	dBA
758	18	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
3051	0	dBA
3117	0	dBA
3176	0	dBA
3140	0	dBA
2857	0	dBA
2721	0	dBA
2589	0	dBA
2478	0	dBA
2362	0	dBA
2258	0	dBA
2771	0	dBA
2641	0	dBA
2521	0	dBA
2393	0	dBA
2266	0	dBA
1935	10	dBA
1741	11	dBA
1712	11	dBA
2815	0	dBA
2694	0	dBA
2567	0	dBA
2451	0	dBA
2163	0	dBA
1659	18	dBA
1625	18	dBA
1587	18	dBA
1794	17	dBA
1741	17	dBA
1720	11	dBA
1705	11	dBA
609	27	dBA
722	25	dBA
847	17	dBA
983	16	dBA
1060	15	dBA
1177	14	dBA
336	32	dBA
456	29	dBA
555	28	dBA
685	26	dBA
814	18	dBA
953	16	dBA
1032	16	dBA
1151	15	dBA
377	31	dBA
506	28	dBA
649	26	dBA
785	18	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
3628	0	dBA
3708	0	dBA
3779	0	dBA
3783	0	dBA
3508	0	dBA
3367	0	dBA
3226	0	dBA
3105	0	dBA
2978	0	dBA
2861	0	dBA
3472	0	dBA
3339	0	dBA
3216	0	dBA
3085	0	dBA
2953	0	dBA
2604	0	dBA
2383	0	dBA
2386	0	dBA
3436	0	dBA
3308	0	dBA
3171	0	dBA
3046	0	dBA
2682	0	dBA
2065	0	dBA
1998	16	dBA
1909	16	dBA
2177	0	dBA
2066	0	dBA
2005	0	dBA
1941	10	dBA
1300	20	dBA
1418	19	dBA
1547	12	dBA
1686	11	dBA
1764	11	dBA
1883	10	dBA
1055	22	dBA
1174	21	dBA
1274	20	dBA
1403	19	dBA
1533	12	dBA
1672	11	dBA
1751	11	dBA
1870	10	dBA
1081	22	dBA
1218	21	dBA
1365	19	dBA
1502	12	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
3677	0	dBA
3755	0	dBA
3824	0	dBA
3819	0	dBA
3542	0	dBA
3402	0	dBA
3263	0	dBA
3144	0	dBA
3019	0	dBA
2905	0	dBA
3489	0	dBA
3357	0	dBA
3235	0	dBA
3105	0	dBA
2975	0	dBA
2572	0	dBA
2345	0	dBA
2355	0	dBA
3390	0	dBA
3261	0	dBA
3123	0	dBA
2996	0	dBA
2622	0	dBA
2132	0	dBA
2068	0	dBA
1983	16	dBA
2247	0	dBA
2140	0	dBA
2082	0	dBA
2022	0	dBA
1281	20	dBA
1400	19	dBA
1529	12	dBA
1669	11	dBA
1748	11	dBA
1867	10	dBA
1051	22	dBA
1170	21	dBA
1269	20	dBA
1398	19	dBA
1527	12	dBA
1666	11	dBA
1744	11	dBA
1863	10	dBA
1093	22	dBA
1227	20	dBA
1372	19	dBA
1508	12	dBA

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR114</b>			Point of Reception ID <b>POR115</b>			Point of Reception ID <b>POR116</b>			Point of Reception ID <b>POR117</b>			Point of Reception ID <b>POR118</b>			
		Point of Reception Description Vacant Lot Receptor 37			Point of Reception Description Vacant Lot Receptor 38			Point of Reception Description Vacant Lot Receptor 39			Point of Reception Description Vacant Lot Receptor 40 (WB V2)			Point of Reception Description Vacant Lot Receptor 41 (WB V1)			
		X	Y	Z <sup>(2)</sup>	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
		368966	4906833	128.2	368747	4906779	131.0	368537	4906762	133.0	368508	4906042	131.7	368414	4906049	133.3	
Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
MVPP_P14A_U19	MVPP P14A_U19	891	17	dBA	898	17	dBA	922	17	dBA	1640	11	dBA	1644	11	dBA	
MVPP_P14A_U20	MVPP P14A_U20	1035	16	dBA	1048	15	dBA	1069	15	dBA	1789	11	dBA	1792	11	dBA	
MVPP_P14A_U21	MVPP P14A_U21	1160	15	dBA	1176	14	dBA	1197	14	dBA	1917	10	dBA	1919	10	dBA	
MVPP_P14B_U1	MVPP P14B_U1	1047	22	dBA	917	23	dBA	803	24	dBA	1457	19	dBA	1427	19	dBA	
MVPP_P14B_U2	MVPP P14B_U2	1125	21	dBA	1010	22	dBA	909	23	dBA	1573	18	dBA	1545	18	dBA	
MVPP_P14B_U3	MVPP P14B_U3	1217	14	dBA	1117	15	dBA	1027	16	dBA	1700	11	dBA	1673	11	dBA	
MVPP_P14B_U4	MVPP P14B_U4	1276	14	dBA	1184	14	dBA	1101	15	dBA	1778	11	dBA	1751	11	dBA	
MVPP_P14B_U5	MVPP P14B_U5	1377	13	dBA	1297	14	dBA	1222	14	dBA	1905	10	dBA	1879	10	dBA	
MVPP_P14B_U6	MVPP P14B_U6	1327	13	dBA	1202	14	dBA	1084	15	dBA	1716	11	dBA	1678	11	dBA	
MVPP_P14B_U7	MVPP P14B_U7	1415	13	dBA	1303	14	dBA	1195	14	dBA	1840	10	dBA	1804	11	dBA	
MVPP_P14B_U8	MVPP P14B_U8	1537	12	dBA	1439	13	dBA	1345	13	dBA	2001	0	dBA	1968	10	dBA	
MVPP_P14C_U1	MVPP P14C_U1	1394	19	dBA	1210	21	dBA	1032	22	dBA	1509	19	dBA	1451	19	dBA	
MVPP_P14C_U2	MVPP P14C_U2	1441	19	dBA	1268	20	dBA	1100	21	dBA	1611	18	dBA	1556	18	dBA	
MVPP_P14C_U3	MVPP P14C_U3	1488	19	dBA	1324	20	dBA	1165	21	dBA	1700	17	dBA	1647	18	dBA	
MVPP_P14C_U4	MVPP P14C_U4	1344	20	dBA	1186	21	dBA	1036	22	dBA	1603	18	dBA	1555	18	dBA	
MVPP_P19_20_U1	MVPP P19/20_U1	2966	0	dBA	2743	0	dBA	2533	0	dBA	2529	0	dBA	2436	0	dBA	
MVPP_P19_U1	MVPP P19_U1	2976	0	dBA	2754	0	dBA	2544	0	dBA	2576	0	dBA	2483	0	dBA	
MVPP_P19_U2	MVPP P19_U2	3014	0	dBA	2794	0	dBA	2584	0	dBA	2643	0	dBA	2550	0	dBA	
MVPP_P19_U3	MVPP P19_U3	3060	0	dBA	2842	0	dBA	2633	0	dBA	2719	0	dBA	2627	0	dBA	
MVPP_P19_U4	MVPP P19_U4	3179	0	dBA	2956	0	dBA	2746	0	dBA	2766	0	dBA	2673	0	dBA	
MVPP_P19_U5	MVPP P19_U5	3220	0	dBA	3000	0	dBA	2790	0	dBA	2837	0	dBA	2744	0	dBA	
MVPP_P20_U1	MVPP P20_U1	3446	0	dBA	3226	0	dBA	3017	0	dBA	3067	0	dBA	2974	0	dBA	
MVPP_P21_U1	MVPP P21_U1	4173	0	dBA	3950	0	dBA	3749	0	dBA	3508	0	dBA	3418	0	dBA	
MVPP_P21_U2	MVPP P21_U2	4182	0	dBA	3957	0	dBA	3754	0	dBA	3542	0	dBA	3450	0	dBA	
MVPP_P21_U3	MVPP P21_U3	4194	0	dBA	3969	0	dBA	3764	0	dBA	3576	0	dBA	3484	0	dBA	
MVPP_P21_U4	MVPP P21_U4	4207	0	dBA	3982	0	dBA	3774	0	dBA	3628	0	dBA	3535	0	dBA	
MVPP_P21_U5	MVPP P21_U5	4223	0	dBA	3998	0	dBA	3790	0	dBA	3661	0	dBA	3568	0	dBA	
MVPP_P21_U6	MVPP P21_U6	4244	0	dBA	4019	0	dBA	3810	0	dBA	3701	0	dBA	3607	0	dBA	
MVPP_P21_U7	MVPP P21_U7	4267	0	dBA	4042	0	dBA	3833	0	dBA	3744	0	dBA	3650	0	dBA	
MVPP_P21_U8	MVPP P21_U8	4293	0	dBA	4068	0	dBA	3859	0	dBA	3789	0	dBA	3695	0	dBA	
MVPP_P21_U9	MVPP P21_U9	4330	0	dBA	4107	0	dBA	3896	0	dBA	3851	0	dBA	3757	0	dBA	
MVPP_P22_U1	MVPP P22_U1	4333	0	dBA	4109	0	dBA	3908	0	dBA	3672	0	dBA	3582	0	dBA	
MVPP_P22_U2	MVPP P22_U2	4344	0	dBA	4119	0	dBA	3915	0	dBA	3709	0	dBA	3617	0	dBA	
MVPP_P22_U3	MVPP P22_U3	4375	0	dBA	4149	0	dBA	3943	0	dBA	3772	0	dBA	3680	0	dBA	
MVPP_P22_U4	MVPP P22_U4	4402	0	dBA	4176	0	dBA	3968	0	dBA	3829	0	dBA	3736	0	dBA	
MVPP_P22_U5	MVPP P22_U5	4429	0	dBA	4204	0	dBA	3995	0	dBA	3883	0	dBA	3789	0	dBA	
MVPP_P22_U6	MVPP P22_U6	4545	0	dBA	4320	0	dBA	4111	0	dBA	4029	0	dBA	3935	0	dBA	
MVPP_P23_U1	MVPP P23_U1	4547	0	dBA	4323	0	dBA	4121	0	dBA	3886	0	dBA	3796	0	dBA	
MVPP_P23_U2	MVPP P23_U2	4556	0	dBA	4331	0	dBA	4128	0	dBA	3916	0	dBA	3825	0	dBA	
MVPP_P23_U3	MVPP P23_U3	4570	0	dBA	4345	0	dBA	4140	0	dBA	3952	0	dBA	3860	0	dBA	
MVPP_P23_U4	MVPP P23_U4	4588	0	dBA	4362	0	dBA	4156	0	dBA	3992	0	dBA	3899	0	dBA	
MVPP_P23_U5	MVPP P23_U5	4613	0	dBA	4388	0	dBA	4180	0	dBA	4043	0	dBA	3950	0	dBA	
MVPP_P23_U6	MVPP P23_U6	4639	0	dBA	4414	0	dBA	4205	0	dBA	4092	0	dBA	3999	0	dBA	
MVPP_P23_U7	MVPP P23_U7	4669	0	dBA	4444	0	dBA	4235	0	dBA	4144	0	dBA	4051	0	dBA	
MVPP_P24_U1	MVPP P24_U1	4272	0	dBA	4052	0	dBA	3857	0	dBA	3552	0	dBA	3466	0	dBA	
MVPP_P24_U2	MVPP P24_U2	4194	0	dBA	3972	0	dBA	3775	0	dBA	3492	0	dBA	3404	0	dBA	
MVPP_P24_U3	MVPP P24_U3	4052	0	dBA	3832	0	dBA	3639	0	dBA	3325	0	dBA	3239	0	dBA	
TS	Transformer Station	2018	0	dBA	2132	0	dBA	2226	0	dBA	2908	0	dBA	2932	0	dBA	
WB_HIT	Hut 1 Transformer	975	3	dBA	1117	2	dBA	1291	0	dBA	1188	1	dBA	1281	0	dBA	
WB_H111	Hut 1 Inverter 1	978	14	dBA	1119	13	dBA	1292	11	dBA	1187	12	dBA	1279	11	dBA	
WB_H112	Hut 1 Inverter 2	979	14	dBA	1121	13	dBA	1294	11	dBA	1189	12	dBA	1282	11	dBA	

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

**Point of Reception ID**  
**POR114**

**Point of Reception Description**  
 Vacant Lot Receptor 37

X	Y	Z <sup>[3]</sup>
368966	4906833	128.2

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
850	5	dBA
852	16	dBA
854	16	dBA
747	6	dBA
751	17	dBA
752	17	dBA
517	10	dBA
519	21	dBA
521	21	dBA
944	3	dBA
944	14	dBA
946	14	dBA
904	4	dBA
905	15	dBA
907	15	dBA
798	5	dBA
798	16	dBA
801	16	dBA
661	7	dBA
661	18	dBA
663	18	dBA
607	8	dBA
610	19	dBA
611	19	dBA
823	5	dBA
825	16	dBA
827	16	dBA
1070	15	dBA
4157	0	dBA
4355	0	dBA
4261	0	dBA
4436	0	dBA
4346	0	dBA
4520	0	dBA
4432	0	dBA
4607	0	dBA
4523	0	dBA
4696	0	dBA
4616	0	dBA

**Point of Reception ID**  
**POR115**

**Point of Reception Description**  
 Vacant Lot Receptor 38

X	Y	Z
368747	4906779	131.0

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
969	3	dBA
971	14	dBA
973	14	dBA
834	5	dBA
837	16	dBA
838	16	dBA
700	7	dBA
700	18	dBA
702	18	dBA
1146	1	dBA
1146	12	dBA
1148	12	dBA
1084	2	dBA
1085	13	dBA
1087	13	dBA
996	3	dBA
996	14	dBA
998	14	dBA
853	5	dBA
853	16	dBA
855	16	dBA
745	6	dBA
746	17	dBA
748	17	dBA
981	3	dBA
982	14	dBA
985	14	dBA
1198	14	dBA
3992	0	dBA
4190	0	dBA
4101	0	dBA
4276	0	dBA
4190	0	dBA
4364	0	dBA
4281	0	dBA
4455	0	dBA
4376	0	dBA
4549	0	dBA
4473	0	dBA

**Point of Reception ID**  
**POR116**

**Point of Reception Description**  
 Vacant Lot Receptor 39

X	Y	Z
368537	4906762	133.0

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
1131	1	dBA
1133	12	dBA
1135	12	dBA
980	3	dBA
982	14	dBA
984	14	dBA
899	4	dBA
899	15	dBA
901	15	dBA
1351	-1	dBA
1350	10	dBA
1352	10	dBA
1279	0	dBA
1279	11	dBA
1282	11	dBA
1200	1	dBA
1199	12	dBA
1202	12	dBA
1055	2	dBA
1055	13	dBA
1057	13	dBA
923	4	dBA
924	15	dBA
926	15	dBA
1166	1	dBA
1166	12	dBA
1169	12	dBA
1362	12	dBA
3870	0	dBA
4068	0	dBA
3984	0	dBA
4158	0	dBA
4078	0	dBA
4251	0	dBA
4174	0	dBA
4346	0	dBA
4273	0	dBA
4444	0	dBA
4374	0	dBA

**Point of Reception ID**  
**POR117**

**Point of Reception Description**  
 Vacant Lot Receptor 40 (WB V2)

X	Y	Z
368508	4906042	131.7

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
1008	3	dBA
1006	14	dBA
1009	14	dBA
828	5	dBA
826	16	dBA
829	16	dBA
1060	2	dBA
1056	13	dBA
1058	13	dBA
1472	-2	dBA
1469	9	dBA
1471	9	dBA
1319	0	dBA
1316	11	dBA
1319	11	dBA
1331	-1	dBA
1328	11	dBA
1330	11	dBA
1199	1	dBA
1195	12	dBA
1198	12	dBA
944	3	dBA
941	15	dBA
943	15	dBA
1155	1	dBA
1153	12	dBA
1155	12	dBA
1195	14	dBA
3245	0	dBA
3443	0	dBA
3347	0	dBA
3522	0	dBA
3431	0	dBA
3606	0	dBA
3518	0	dBA
3692	0	dBA
3609	0	dBA
3782	0	dBA
3703	0	dBA

**Point of Reception ID**  
**POR118**

**Point of Reception Description**  
 Vacant Lot Receptor 41 (WB V1)

X	Y	Z
368414	4906049	133.3

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
1100	2	dBA
1098	13	dBA
1101	13	dBA
920	4	dBA
918	15	dBA
920	15	dBA
1138	1	dBA
1134	12	dBA
1136	12	dBA
1556	-2	dBA
1554	9	dBA
1556	9	dBA
1407	-1	dBA
1404	10	dBA
1407	10	dBA
1414	-1	dBA
1411	10	dBA
1414	10	dBA
1280	0	dBA
1277	11	dBA
1279	11	dBA
1028	3	dBA
1026	14	dBA
1028	14	dBA
1244	0	dBA
1242	11	dBA
1244	11	dBA
1289	13	dBA
3198	0	dBA
3396	0	dBA
3304	0	dBA
3479	0	dBA
3390	0	dBA
3565	0	dBA
3480	0	dBA
3654	0	dBA
3574	0	dBA
3747	0	dBA
3671	0	dBA

Source ID <sup>[1]</sup>	Source Description
WB_H2T	Hut 2 Transformer
WB_H2I1	Hut 2 Inverter 1
WB_H2I2	Hut 2 Inverter 2
WB_H3T	Hut 3 Transformer
WB_H3I1	Hut 3 Inverter 1
WB_H3I2	Hut 3 Inverter 2
WB_H4T	Hut 4 Transformer
WB_H4I1	Hut 4 Inverter 1
WB_H4I2	Hut 4 Inverter 2
WB_H5T	Hut 5 Transformer
WB_H5I1	Hut 5 Inverter 1
WB_H5I2	Hut 5 Inverter 2
WB_H6T	Hut 6 Transformer
WB_H6I1	Hut 6 Inverter 1
WB_H6I2	Hut 6 Inverter 2
WB_H7T	Hut 7 Transformer
WB_H7I1	Hut 7 Inverter 1
WB_H7I2	Hut 7 Inverter 2
WB_H8T	Hut 8 Transformer
WB_H8I1	Hut 8 Inverter 1
WB_H8I2	Hut 8 Inverter 2
WB_H9T	Hut 9 Transformer
WB_H9I1	Hut 9 Inverter 1
WB_H9I2	Hut 9 Inverter 2
WB_H10T	Hut 10 Transformer
WB_H10I1	Hut 10 Inverter 1
WB_H10I2	Hut 10 Inverter 2
WB_ST	Substation Transformer
KGH2_Sub	44-kV/10-MVA Substation transformer
KGH2_Inv01	Sunny Central 1000MV inverter unit
KGH2_Inv02	Sunny Central 1000MV inverter unit
KGH2_Inv03	Sunny Central 1000MV inverter unit
KGH2_Inv04	Sunny Central 1000MV inverter unit
KGH2_Inv05	Sunny Central 1000MV inverter unit
KGH2_Inv06	Sunny Central 1000MV inverter unit
KGH2_Inv07	Sunny Central 1000MV inverter unit
KGH2_Inv08	Sunny Central 1000MV inverter unit
KGH2_Inv09	Sunny Central 1000MV inverter unit
KGH2_Inv10	Sunny Central 1000MV inverter unit

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Point of Reception ID <b>POR119</b>			Point of Reception ID <b>POR120</b>			Point of Reception ID <b>POR121</b>			Point of Reception ID <b>POR122</b>			Point of Reception ID <b>POR123</b>		
Point of Reception Description Vacant Lot Receptor 42			Point of Reception Description Vacant Lot Receptor 43			Point of Reception Description Vacant Lot Receptor 44			Point of Reception Description Vacant Lot Receptor 45			Point of Reception Description Vacant Lot Receptor 46		
X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
367483	4906764	135.0	367133	4906729	135.0	367503	4906637	136.0	367326	4906616	135.3	367154	4906611	134.5

Source ID <sup>[1]</sup>	Source Description
MVPP_P1_U1	MVPP P1_U1
MVPP_P1_U2	MVPP P1_U2
MVPP_P1_U3	MVPP P1_U3
MVPP_P2_1_U1	MVPP P2/1_U1
MVPP_P3_U1	MVPP P3_U1
MVPP_P3_U2	MVPP P3_U2
MVPP_P3_U3	MVPP P3_U3
MVPP_P3_U4	MVPP P3_U4
MVPP_P3_U5	MVPP P3_U5
MVPP_P3_U6	MVPP P3_U6
MVPP_P4_U1	MVPP P4_U1
MVPP_P4_U2	MVPP P4_U2
MVPP_P4_U3	MVPP P4_U3
MVPP_P4_U4	MVPP P4_U4
MVPP_P4_U5	MVPP P4_U5
MVPP_P6A_U1	MVPP P6A_U1
MVPP_P6A_U2	MVPP P6A_U2
MVPP_P6A_U3	MVPP P6A_U3
MVPP_P7_9_10_U1	MVPP P7/9/10_U1
MVPP_P7_9_10_U2	MVPP P7/9/10_U2
MVPP_P7_9_10_U3	MVPP P7/9/10_U3
MVPP_P7_9_10_U4	MVPP P7/9/10_U4
MVPP_P11A_U3	MVPP P11A_U3
MVPP_P12_U1	MVPP P12_U1
MVPP_P12_U2	MVPP P12_U2
MVPP_P12_U3	MVPP P12_U3
MVPP_P12_U4	MVPP P12_U4
MVPP_P12_U5	MVPP P12_U5
MVPP_P12_U6	MVPP P12_U6
MVPP_P12_U7	MVPP P12_U7
MVPP_P14A_U1	MVPP P14A_U1
MVPP_P14A_U2	MVPP P14A_U2
MVPP_P14A_U3	MVPP P14A_U3
MVPP_P14A_U4	MVPP P14A_U4
MVPP_P14A_U5	MVPP P14A_U5
MVPP_P14A_U6	MVPP P14A_U6
MVPP_P14A_U7	MVPP P14A_U7
MVPP_P14A_U8	MVPP P14A_U8
MVPP_P14A_U9	MVPP P14A_U9
MVPP_P14A_U10	MVPP P14A_U10
MVPP_P14A_U11	MVPP P14A_U11
MVPP_P14A_U12	MVPP P14A_U12
MVPP_P14A_U13	MVPP P14A_U13
MVPP_P14A_U14	MVPP P14A_U14
MVPP_P14A_U15	MVPP P14A_U15
MVPP_P14A_U16	MVPP P14A_U16
MVPP_P14A_U17	MVPP P14A_U17
MVPP_P14A_U18	MVPP P14A_U18

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
3848	0	dBA
3888	0	dBA
3925	0	dBA
3804	0	dBA
3512	0	dBA
3398	0	dBA
3294	0	dBA
3210	0	dBA
3123	0	dBA
3047	0	dBA
3247	0	dBA
3138	0	dBA
3040	0	dBA
2938	0	dBA
2838	0	dBA
1805	11	dBA
1524	12	dBA
1631	12	dBA
2431	0	dBA
2293	0	dBA
2145	0	dBA
2008	0	dBA
1551	12	dBA
2665	0	dBA
2645	0	dBA
2624	0	dBA
2806	0	dBA
2775	0	dBA
2763	0	dBA
2756	0	dBA
999	22	dBA
1067	22	dBA
1150	15	dBA
1248	14	dBA
1307	13	dBA
1400	13	dBA
1075	22	dBA
1114	21	dBA
1155	21	dBA
1219	21	dBA
1292	14	dBA
1380	13	dBA
1434	13	dBA
1519	12	dBA
1254	20	dBA
1295	20	dBA
1353	20	dBA
1419	13	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
4158	0	dBA
4192	0	dBA
4225	0	dBA
4085	0	dBA
3793	0	dBA
3685	0	dBA
3589	0	dBA
3510	0	dBA
3431	0	dBA
3361	0	dBA
3489	0	dBA
3388	0	dBA
3297	0	dBA
3201	0	dBA
3109	0	dBA
1928	10	dBA
1640	11	dBA
1783	11	dBA
2430	0	dBA
2290	0	dBA
2141	0	dBA
2002	0	dBA
1498	12	dBA
3015	0	dBA
2996	0	dBA
2976	0	dBA
3156	0	dBA
3127	0	dBA
3115	0	dBA
3108	0	dBA
1319	20	dBA
1373	19	dBA
1440	13	dBA
1522	12	dBA
1571	12	dBA
1651	11	dBA
1422	19	dBA
1453	19	dBA
1486	19	dBA
1538	18	dBA
1599	12	dBA
1672	11	dBA
1718	11	dBA
1791	11	dBA
1602	18	dBA
1636	18	dBA
1685	17	dBA
1740	11	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
3907	0	dBA
3951	0	dBA
3991	0	dBA
3880	0	dBA
3588	0	dBA
3471	0	dBA
3364	0	dBA
3275	0	dBA
3185	0	dBA
3105	0	dBA
3340	0	dBA
3229	0	dBA
3128	0	dBA
3023	0	dBA
2920	0	dBA
1927	10	dBA
1648	11	dBA
1750	11	dBA
2560	0	dBA
2422	0	dBA
2274	0	dBA
2137	0	dBA
1677	11	dBA
2679	0	dBA
2653	0	dBA
2625	0	dBA
2818	0	dBA
2778	0	dBA
2760	0	dBA
2746	0	dBA
1060	22	dBA
1138	21	dBA
1230	14	dBA
1335	13	dBA
1398	13	dBA
1495	12	dBA
1103	21	dBA
1154	21	dBA
1205	21	dBA
1278	20	dBA
1361	13	dBA
1457	13	dBA
1514	12	dBA
1605	12	dBA
1276	20	dBA
1329	20	dBA
1400	19	dBA
1476	12	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
4061	0	dBA
4103	0	dBA
4141	0	dBA
4020	0	dBA
3727	0	dBA
3613	0	dBA
3510	0	dBA
3425	0	dBA
3338	0	dBA
3261	0	dBA
3459	0	dBA
3351	0	dBA
3254	0	dBA
3152	0	dBA
3053	0	dBA
1981	10	dBA
1696	11	dBA
1817	11	dBA
2555	0	dBA
2416	0	dBA
2267	0	dBA
2129	0	dBA
1645	11	dBA
2855	0	dBA
2831	0	dBA
2803	0	dBA
2994	0	dBA
2956	0	dBA
2939	0	dBA
2925	0	dBA
1212	21	dBA
1282	20	dBA
1365	13	dBA
1463	13	dBA
1520	12	dBA
1611	12	dBA
1274	20	dBA
1320	20	dBA
1365	19	dBA
1432	19	dBA
1507	12	dBA
1596	12	dBA
1649	11	dBA
1733	11	dBA
1449	19	dBA
1498	19	dBA
1562	18	dBA
1632	12	dBA

Distance (m)	Sound Level at PoR <sup>[3]</sup>	Units <sup>[4]</sup> (dBA)
4205	0	dBA
4243	0	dBA
4278	0	dBA
4148	0	dBA
3855	0	dBA
3744	0	dBA
3644	0	dBA
3563	0	dBA
3479	0	dBA
3405	0	dBA
3567	0	dBA
3463	0	dBA
3369	0	dBA
3271	0	dBA
3175	0	dBA
2032	0	dBA
1745	11	dBA
1881	10	dBA
2548	0	dBA
2409	0	dBA
2260	0	dBA
2121	0	dBA
1618	12	dBA
3022	0	dBA
2999	0	dBA
2973	0	dBA
3162	0	dBA
3125	0	dBA
3109	0	dBA
3096	0	dBA
1358	20	dBA
1420	19	dBA
1496	12	dBA
1585	12	dBA
1638	12	dBA
1723	11	dBA
1436	19	dBA
1477	19	dBA
1517	18	dBA
1578	18	dBA
1646	11	dBA
1727	11	dBA
1777	11	dBA
1855	10	dBA
1613	18	dBA
1657	18	dBA
1715	17	dBA
1779	11	dBA



**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR119</b>			Point of Reception ID <b>POR120</b>			Point of Reception ID <b>POR121</b>			Point of Reception ID <b>POR122</b>			Point of Reception ID <b>POR123</b>			
		Point of Reception Description Vacant Lot Receptor 42			Point of Reception Description Vacant Lot Receptor 43			Point of Reception Description Vacant Lot Receptor 44			Point of Reception Description Vacant Lot Receptor 45			Point of Reception Description Vacant Lot Receptor 46			
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
		367483	4906764	135.0	367133	4906729	135.0	367503	4906637	136.0	367326	4906616	135.3	367154	4906611	134.5	
Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
MVPP_P14A_U19	MVPP P14A_U19	1495	12	dBA	1805	11	dBA	1561	12	dBA	1710	11	dBA	1851	10	dBA	
MVPP_P14A_U20	MVPP P14A_U20	1587	12	dBA	1883	10	dBA	1660	11	dBA	1802	11	dBA	1936	10	dBA	
MVPP_P14A_U21	MVPP P14A_U21	1673	11	dBA	1957	10	dBA	1752	11	dBA	1888	10	dBA	2017	0	dBA	
MVPP_P14B_U1	MVPP P14B_U1	929	23	dBA	1216	21	dBA	1014	22	dBA	1145	21	dBA	1272	20	dBA	
MVPP_P14B_U2	MVPP P14B_U2	1017	22	dBA	1286	20	dBA	1108	21	dBA	1230	20	dBA	1350	20	dBA	
MVPP_P14B_U3	MVPP P14B_U3	1118	15	dBA	1370	13	dBA	1216	14	dBA	1329	13	dBA	1440	13	dBA	
MVPP_P14B_U4	MVPP P14B_U4	1183	14	dBA	1424	13	dBA	1284	14	dBA	1392	13	dBA	1499	12	dBA	
MVPP_P14B_U5	MVPP P14B_U5	1292	14	dBA	1518	12	dBA	1397	13	dBA	1498	12	dBA	1598	12	dBA	
MVPP_P14B_U6	MVPP P14B_U6	994	16	dBA	1218	14	dBA	1101	15	dBA	1198	14	dBA	1296	14	dBA	
MVPP_P14B_U7	MVPP P14B_U7	1109	15	dBA	1316	13	dBA	1220	14	dBA	1310	13	dBA	1400	13	dBA	
MVPP_P14B_U8	MVPP P14B_U8	1263	14	dBA	1450	13	dBA	1377	13	dBA	1459	13	dBA	1540	12	dBA	
MVPP_P14C_U1	MVPP P14C_U1	541	28	dBA	753	25	dBA	659	26	dBA	737	25	dBA	830	24	dBA	
MVPP_P14C_U2	MVPP P14C_U2	655	26	dBA	842	24	dBA	775	25	dBA	844	24	dBA	927	23	dBA	
MVPP_P14C_U3	MVPP P14C_U3	753	25	dBA	922	23	dBA	874	24	dBA	938	23	dBA	1012	22	dBA	
MVPP_P14C_U4	MVPP P14C_U4	768	25	dBA	987	22	dBA	880	24	dBA	969	23	dBA	1065	22	dBA	
MVPP_P19_20_U1	MVPP P19/20_U1	1489	19	dBA	1138	21	dBA	1491	19	dBA	1313	20	dBA	1141	21	dBA	
MVPP_P19_U1	MVPP P19_U1	1493	12	dBA	1140	15	dBA	1506	12	dBA	1328	13	dBA	1157	10	dBA	
MVPP_P19_U2	MVPP P19_U2	1530	8	dBA	1179	10	dBA	1552	8	dBA	1376	9	dBA	1206	10	dBA	
MVPP_P19_U3	MVPP P19_U3	1579	7	dBA	1231	10	dBA	1609	7	dBA	1436	8	dBA	1268	9	dBA	
MVPP_P19_U4	MVPP P19_U4	1696	14	dBA	1343	16	dBA	1707	14	dBA	1530	15	dBA	1358	16	dBA	
MVPP_P19_U5	MVPP P19_U5	1736	7	dBA	1384	9	dBA	1756	7	dBA	1580	7	dBA	1409	9	dBA	
MVPP_P20_U1	MVPP P20_U1	1963	12	dBA	1612	14	dBA	1985	12	dBA	1809	13	dBA	1639	14	dBA	
MVPP_P21_U1	MVPP P21_U1	2804	0	dBA	2489	0	dBA	2759	0	dBA	2594	0	dBA	2444	0	dBA	
MVPP_P21_U2	MVPP P21_U2	2789	0	dBA	2465	0	dBA	2750	0	dBA	2581	0	dBA	2426	0	dBA	
MVPP_P21_U3	MVPP P21_U3	2783	0	dBA	2453	0	dBA	2750	0	dBA	2579	0	dBA	2420	0	dBA	
MVPP_P21_U4	MVPP P21_U4	2769	0	dBA	2430	0	dBA	2746	0	dBA	2571	0	dBA	2408	0	dBA	
MVPP_P21_U5	MVPP P21_U5	2775	0	dBA	2433	0	dBA	2757	0	dBA	2581	0	dBA	2415	0	dBA	
MVPP_P21_U6	MVPP P21_U6	2786	0	dBA	2441	0	dBA	2773	0	dBA	2596	0	dBA	2429	0	dBA	
MVPP_P21_U7	MVPP P21_U7	2802	0	dBA	2454	0	dBA	2793	0	dBA	2616	0	dBA	2447	0	dBA	
MVPP_P21_U8	MVPP P21_U8	2821	0	dBA	2471	0	dBA	2818	0	dBA	2639	0	dBA	2469	0	dBA	
MVPP_P21_U9	MVPP P21_U9	2852	0	dBA	2500	0	dBA	2855	0	dBA	2676	0	dBA	2505	0	dBA	
MVPP_P22_U1	MVPP P22_U1	2956	0	dBA	2637	0	dBA	2913	0	dBA	2747	0	dBA	2595	0	dBA	
MVPP_P22_U2	MVPP P22_U2	2943	0	dBA	2616	0	dBA	2907	0	dBA	2737	0	dBA	2580	0	dBA	
MVPP_P22_U3	MVPP P22_U3	2949	0	dBA	2613	0	dBA	2921	0	dBA	2748	0	dBA	2586	0	dBA	
MVPP_P22_U4	MVPP P22_U4	2956	0	dBA	2614	0	dBA	2937	0	dBA	2761	0	dBA	2596	0	dBA	
MVPP_P22_U5	MVPP P22_U5	2971	0	dBA	2625	0	dBA	2959	0	dBA	2781	0	dBA	2614	0	dBA	
MVPP_P22_U6	MVPP P22_U6	3075	0	dBA	2725	0	dBA	3070	0	dBA	2892	0	dBA	2722	0	dBA	
MVPP_P23_U1	MVPP P23_U1	3165	0	dBA	2843	0	dBA	3124	0	dBA	2957	0	dBA	2803	0	dBA	
MVPP_P23_U2	MVPP P23_U2	3155	0	dBA	2827	0	dBA	3119	0	dBA	2949	0	dBA	2792	0	dBA	
MVPP_P23_U3	MVPP P23_U3	3152	0	dBA	2818	0	dBA	3122	0	dBA	2950	0	dBA	2789	0	dBA	
MVPP_P23_U4	MVPP P23_U4	3154	0	dBA	2816	0	dBA	3130	0	dBA	2956	0	dBA	2793	0	dBA	
MVPP_P23_U5	MVPP P23_U5	3165	0	dBA	2821	0	dBA	3147	0	dBA	2971	0	dBA	2805	0	dBA	
MVPP_P23_U6	MVPP P23_U6	3180	0	dBA	2833	0	dBA	3168	0	dBA	2991	0	dBA	2823	0	dBA	
MVPP_P23_U7	MVPP P23_U7	3201	0	dBA	2851	0	dBA	3194	0	dBA	3016	0	dBA	2847	0	dBA	
MVPP_P24_U1	MVPP P24_U1	2964	0	dBA	2670	0	dBA	2906	0	dBA	2750	0	dBA	2611	0	dBA	
MVPP_P24_U2	MVPP P24_U2	2865	0	dBA	2564	0	dBA	2811	0	dBA	2652	0	dBA	2509	0	dBA	
MVPP_P24_U3	MVPP P24_U3	2762	0	dBA	2476	0	dBA	2700	0	dBA	2547	0	dBA	2413	0	dBA	
TS	Transformer Station	2825	0	dBA	3103	0	dBA	2904	0	dBA	3041	0	dBA	3166	0	dBA	
WB_HIT	Hut 1 Transformer	2282	0	dBA	2614	0	dBA	2233	0	dBA	2403	0	dBA	2571	0	dBA	
WB_H111	Hut 1 Inverter 1	2281	0	dBA	2614	0	dBA	2232	0	dBA	2402	0	dBA	2570	0	dBA	
WB_H112	Hut 1 Inverter 2	2284	0	dBA	2617	0	dBA	2235	0	dBA	2405	0	dBA	2573	0	dBA	

**Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

Source ID <sup>(1)</sup>	Source Description	Point of Reception ID <b>POR119</b>			Point of Reception ID <b>POR120</b>			Point of Reception ID <b>POR121</b>			Point of Reception ID <b>POR122</b>			Point of Reception ID <b>POR123</b>		
		Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)	Distance (m)	Sound Level at PoR <sup>(3)</sup>	Units <sup>(4)</sup> (dBA)
Point of Reception Description Vacant Lot Receptor 42		Point of Reception Description Vacant Lot Receptor 43		Point of Reception Description Vacant Lot Receptor 44		Point of Reception Description Vacant Lot Receptor 45		Point of Reception Description Vacant Lot Receptor 46		Point of Reception Description Vacant Lot Receptor 47		Point of Reception Description Vacant Lot Receptor 48		Point of Reception Description Vacant Lot Receptor 49		
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
		367483	4906764	135.0	367133	4906729	135.0	367503	4906637	136.0	367326	4906616	135.3	367154	4906611	134.5
WB_H2T	Hut 2 Transformer	2106	0	dBA	2437	0	dBA	2055	0	dBA	2224	0	dBA	2392	0	dBA
WB_H2I1	Hut 2 Inverter 1	2106	0	dBA	2437	0	dBA	2055	0	dBA	2224	0	dBA	2391	0	dBA
WB_H2I2	Hut 2 Inverter 2	2109	0	dBA	2439	0	dBA	2057	0	dBA	2226	0	dBA	2394	0	dBA
WB_H3T	Hut 3 Transformer	1932	-8	dBA	2260	0	dBA	1878	-8	dBA	2046	0	dBA	2213	0	dBA
WB_H3I1	Hut 3 Inverter 1	1933	6	dBA	2260	0	dBA	1878	6	dBA	2046	0	dBA	2213	0	dBA
WB_H3I2	Hut 3 Inverter 2	1935	6	dBA	2263	0	dBA	1881	6	dBA	2049	0	dBA	2215	0	dBA
WB_H4T	Hut 4 Transformer	1944	-5	dBA	2291	0	dBA	1916	-5	dBA	2093	0	dBA	2264	0	dBA
WB_H4I1	Hut 4 Inverter 1	1943	6	dBA	2290	0	dBA	1915	6	dBA	2092	0	dBA	2263	0	dBA
WB_H4I2	Hut 4 Inverter 2	1945	6	dBA	2292	0	dBA	1917	6	dBA	2094	0	dBA	2266	0	dBA
WB_H5T	Hut 5 Transformer	2400	0	dBA	2747	0	dBA	2373	0	dBA	2550	0	dBA	2722	0	dBA
WB_H5I1	Hut 5 Inverter 1	2399	0	dBA	2746	0	dBA	2372	0	dBA	2549	0	dBA	2721	0	dBA
WB_H5I2	Hut 5 Inverter 2	2401	0	dBA	2749	0	dBA	2375	0	dBA	2552	0	dBA	2723	0	dBA
WB_H6T	Hut 6 Transformer	2313	0	dBA	2656	0	dBA	2277	0	dBA	2452	0	dBA	2623	0	dBA
WB_H6I1	Hut 6 Inverter 1	2312	0	dBA	2655	0	dBA	2277	0	dBA	2452	0	dBA	2622	0	dBA
WB_H6I2	Hut 6 Inverter 2	2315	0	dBA	2658	0	dBA	2279	0	dBA	2454	0	dBA	2625	0	dBA
WB_H7T	Hut 7 Transformer	2248	0	dBA	2595	0	dBA	2221	0	dBA	2398	0	dBA	2569	0	dBA
WB_H7I1	Hut 7 Inverter 1	2247	0	dBA	2594	0	dBA	2220	0	dBA	2397	0	dBA	2568	0	dBA
WB_H7I2	Hut 7 Inverter 2	2249	0	dBA	2597	0	dBA	2222	0	dBA	2399	0	dBA	2571	0	dBA
WB_H8T	Hut 8 Transformer	2102	0	dBA	2449	0	dBA	2075	0	dBA	2252	0	dBA	2423	0	dBA
WB_H8I1	Hut 8 Inverter 1	2101	0	dBA	2448	0	dBA	2073	0	dBA	2250	0	dBA	2422	0	dBA
WB_H8I2	Hut 8 Inverter 2	2103	0	dBA	2450	0	dBA	2076	0	dBA	2253	0	dBA	2424	0	dBA
WB_H9T	Hut 9 Transformer	1936	-5	dBA	2276	0	dBA	1896	-5	dBA	2070	0	dBA	2240	0	dBA
WB_H9I1	Hut 9 Inverter 1	1936	6	dBA	2275	0	dBA	1895	6	dBA	2069	0	dBA	2239	0	dBA
WB_H9I2	Hut 9 Inverter 2	1938	6	dBA	2278	0	dBA	1898	6	dBA	2071	0	dBA	2241	0	dBA
WB_H10T	Hut 10 Transformer	2182	0	dBA	2522	0	dBA	2141	0	dBA	2315	0	dBA	2484	0	dBA
WB_H10I1	Hut 10 Inverter 1	2182	0	dBA	2521	0	dBA	2141	0	dBA	2314	0	dBA	2484	0	dBA
WB_H10I2	Hut 10 Inverter 2	2185	0	dBA	2524	0	dBA	2143	0	dBA	2317	0	dBA	2486	0	dBA
WB_ST	Substation Transformer	2329	0	dBA	2657	0	dBA	2275	0	dBA	2442	0	dBA	2608	0	dBA
KGH2_Sub	44-kV/10-MVA Substation transformer	3477	0	dBA	3374	0	dBA	3359	0	dBA	3298	0	dBA	3261	0	dBA
KGH2_Inv01	Sunny Central 1000MV inverter unit	3665	0	dBA	3555	0	dBA	3548	0	dBA	3483	0	dBA	3443	0	dBA
KGH2_Inv02	Sunny Central 1000MV inverter unit	3616	0	dBA	3519	0	dBA	3497	0	dBA	3439	0	dBA	3406	0	dBA
KGH2_Inv03	Sunny Central 1000MV inverter unit	3781	0	dBA	3679	0	dBA	3663	0	dBA	3602	0	dBA	3566	0	dBA
KGH2_Inv04	Sunny Central 1000MV inverter unit	3735	0	dBA	3646	0	dBA	3615	0	dBA	3561	0	dBA	3531	0	dBA
KGH2_Inv05	Sunny Central 1000MV inverter unit	3898	0	dBA	3803	0	dBA	3779	0	dBA	3722	0	dBA	3689	0	dBA
KGH2_Inv06	Sunny Central 1000MV inverter unit	3855	0	dBA	3772	0	dBA	3734	0	dBA	3683	0	dBA	3657	0	dBA
KGH2_Inv07	Sunny Central 1000MV inverter unit	4017	0	dBA	3928	0	dBA	3896	0	dBA	3843	0	dBA	3814	0	dBA
KGH2_Inv08	Sunny Central 1000MV inverter unit	3976	0	dBA	3900	0	dBA	3854	0	dBA	3808	0	dBA	3785	0	dBA
KGH2_Inv09	Sunny Central 1000MV inverter unit	4137	0	dBA	4055	0	dBA	4016	0	dBA	3966	0	dBA	3940	0	dBA
KGH2_Inv10	Sunny Central 1000MV inverter unit	4100	0	dBA	4030	0	dBA	3977	0	dBA	3934	0	dBA	3914	0	dBA

## **Appendix H: Point of Reception Noise Impact**



Project: Sol-Luce Kingston Solar PV Energy Project  
Location: Kingston ON

### Notes:

1. Wherever possible, the Source ID matches the identifiers used in the drawing.
2. Sound Level units  
dBA = 1-hour energy equivalent sound level ( $L_{eq}$  (1-hr)), in terms of A-Weighted decibels.  
dBAI = Logarithmic mean impulsive noise level ( $L_{LM}$ ), in terms of A-Weighted decibels incorporating an impulsive time weighting
3. Height above local grade 1.5 m for Houses.
4. Noise receptors representative of worst-case potential impacts have been selected. For the purposes of noise impact assessment, the following land uses (existing or zoned for future use) have been considered:
  - permanent , seasonal, or rental residences
  - hotels, motels and campgrounds
  - nursing / retirement homes
  - hospitals and clinics
  - schools, universities, libraries and daycare centres
  - churches and places of worship

## **APPENDIX I**

### **KEY PARAMETERS USED IN THE NOISE STUDY AND SAMPLE CALCULATION**

## Key Parameters Included in the Noise Model



Project: Sol-Luce Kingston PV Energy Project  
Location: Kingston ON

<b>Parameter</b>	<b>Value</b>	<b>Rationale</b>
Ground Absorption	0.8	Accounts mostly soft surface between facility and receptors of interest.
Temperature	10°C	Ontario standard conditions
Relative Humidity	70%	Ontario standard conditions
Max. Order of Reflection	1	To account reflections from buildings and structures.
Reflection Coefficient	N/A	Accounts for absorption/attenuation from building surfaces

Receiver  
 Name: House 05  
 ID: POR005  
 X: 364246.04  
 Y: 4906051.41  
 Z: 137.50

Point Source, ISO 9613, Name: "MVPP P19/20 U1", ID: "P19_20_U1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	366019.03	4906493.59	141.00	0	63	85.8	85.8	0.0	0.0	76.2	0.2	-5.8	0.0	0.0	0.0	0.0	-0.0	15.2	15.2
2	366019.03	4906493.59	141.00	0	125	84.0	84.0	0.0	0.0	76.2	0.8	7.1	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1
3	366019.03	4906493.59	141.00	0	250	89.5	89.5	0.0	0.0	76.2	1.9	9.3	0.0	0.0	0.0	0.0	-0.0	2.1	2.1
4	366019.03	4906493.59	141.00	0	500	89.0	89.0	0.0	0.0	76.2	3.5	4.6	0.0	0.0	0.0	0.0	-0.0	4.6	4.6
5	366019.03	4906493.59	141.00	0	1000	83.4	83.4	0.0	0.0	76.2	6.7	-0.5	0.0	0.0	0.0	0.0	-0.0	1.0	1.0
6	366019.03	4906493.59	141.00	0	2000	77.0	77.0	0.0	0.0	76.2	17.7	-1.2	0.0	0.0	0.0	0.0	-0.0	-15.7	-15.7
7	366019.03	4906493.59	141.00	0	4000	68.8	68.8	0.0	0.0	76.2	59.9	-1.2	0.0	0.0	0.0	0.0	-0.0	-66.1	-66.1
8	366019.03	4906493.59	141.00	0	8000	72.0	72.0	0.0	0.0	76.2	213.6	-1.2	0.0	0.0	0.0	0.0	-0.0	-216.7	-216.7

Point Source, ISO 9613, Name: "MVPP P19_U1", ID: "P19_U1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	365997.45	4906621.10	141.00	0	63	80.8	80.8	0.0	0.0	76.3	0.2	-5.8	0.0	0.0	0.0	0.0	-0.0	10.1	10.1
2	365997.45	4906621.10	141.00	0	125	76.6	76.6	0.0	0.0	76.3	0.8	7.1	0.0	0.0	0.0	0.0	-0.0	-7.6	-7.6
3	365997.45	4906621.10	141.00	0	250	77.4	77.4	0.0	0.0	76.3	1.9	9.3	0.0	0.0	0.0	0.0	-0.0	-10.1	-10.1
4	365997.45	4906621.10	141.00	0	500	77.1	77.1	0.0	0.0	76.3	3.5	4.6	0.0	0.0	0.0	0.0	-0.0	-7.3	-7.3
5	365997.45	4906621.10	141.00	0	1000	73.8	73.8	0.0	0.0	76.3	6.7	-0.5	0.0	0.0	0.0	0.0	-0.0	-8.7	-8.7
6	365997.45	4906621.10	141.00	0	2000	69.7	69.7	0.0	0.0	76.3	17.8	-1.2	0.0	0.0	0.0	0.0	-0.0	-23.2	-23.2
7	365997.45	4906621.10	141.00	0	4000	64.3	64.3	0.0	0.0	76.3	60.3	-1.2	0.0	0.0	0.0	0.0	-0.0	-71.2	-71.2
8	365997.45	4906621.10	141.00	0	8000	57.5	57.5	0.0	0.0	76.3	215.3	-1.2	0.0	0.0	0.0	0.0	-0.0	-232.9	-232.9

Point Source, ISO 9613, Name: "MVPP P19_U2", ID: "P19_U2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	365953.56	4906720.92	140.12	0	63	80.8	80.8	0.0	0.0	76.3	0.2	-5.8	0.0	0.0	0.0	0.0	-0.0	10.1	10.1
2	365953.56	4906720.92	140.12	0	125	76.6	76.6	0.0	0.0	76.3	0.8	7.1	0.0	0.0	0.0	0.0	-0.0	-7.5	-7.5
3	365953.56	4906720.92	140.12	0	250	77.4	77.4	0.0	0.0	76.3	1.9	9.3	0.0	0.0	0.0	0.0	-0.0	-10.0	-10.0
4	365953.56	4906720.92	140.12	0	500	77.1	77.1	0.0	0.0	76.3	3.5	4.6	0.0	0.0	0.0	0.0	-0.0	-7.3	-7.3
5	365953.56	4906720.92	140.12	0	1000	73.8	73.8	0.0	0.0	76.3	6.7	-0.5	0.0	0.0	0.0	0.0	-0.0	-8.7	-8.7
6	365953.56	4906720.92	140.12	0	2000	69.7	69.7	0.0	0.0	76.3	17.7	-1.2	0.0	0.0	0.0	0.0	-0.0	-23.1	-23.1
7	365953.56	4906720.92	140.12	0	4000	64.3	64.3	0.0	0.0	76.3	60.1	-1.2	0.0	0.0	0.0	0.0	-0.0	-70.9	-70.9
8	365953.56	4906720.92	140.12	0	8000	57.5	57.5	0.0	0.0	76.3	214.4	-1.2	0.0	0.0	0.0	0.0	-0.0	-232.0	-232.0

Point Source, ISO 9613, Name: "MVPP P19_U3", ID: "P19_U3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	365905.62	4906829.85	139.67	0	63	80.8	80.8	0.0	0.0	76.3	0.2	-5.8	0.0	0.0	0.0	0.0	-0.0	10.1	10.1
2	365905.62	4906829.85	139.67	0	125	76.6	76.6	0.0	0.0	76.3	0.8	7.1	0.0	0.0	0.0	0.0	-0.0	-7.5	-7.5
3	365905.62	4906829.85	139.67	0	250	77.4	77.4	0.0	0.0	76.3	1.9	9.3	0.0	0.0	0.0	0.0	-0.0	-10.0	-10.0
4	365905.62	4906829.85	139.67	0	500	77.1	77.1	0.0	0.0	76.3	3.5	4.6	0.0	0.0	0.0	0.0	-0.0	-7.3	-7.3
5	365905.62	4906829.85	139.67	0	1000	73.8	73.8	0.0	0.0	76.3	6.7	-0.5	0.0	0.0	0.0	0.0	-0.0	-8.6	-8.6
6	365905.62	4906829.85	139.67	0	2000	69.7	69.7	0.0	0.0	76.3	17.7	-1.2	0.0	0.0	0.0	0.0	-0.0	-23.1	-23.1
7	365905.62	4906829.85	139.67	0	4000	64.3	64.3	0.0	0.0	76.3	60.1	-1.2	0.0	0.0	0.0	0.0	-0.0	-70.9	-70.9
8	365905.62	4906829.85	139.67	0	8000	57.5	57.5	0.0	0.0	76.3	214.3	-1.2	0.0	0.0	0.0	0.0	-0.0	-231.9	-231.9

Point Source, ISO 9613, Name: "MVPP P19_U4", ID: "P19_U4"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	365796.44	4906591.29	139.60	0	63	85.8	85.8	0.0	0.0	75.3	0.2	-5.8	0.0	0.0	4.8	0.0	-0.0	11.3	11.3
2	365796.44	4906591.29	139.60	0	125	84.0	84.0	0.0	0.0	75.3	0.7	7.1	0.0	0.0	0.0	0.0	-0.0	0.9	0.9
3	365796.44	4906591.29	139.60	0	250	89.5	89.5	0.0	0.0	75.3	1.7	9.3	0.0	0.0	0.0	0.0	-0.0	3.2	3.2
4	365796.44	4906591.29	139.60	0	500	89.0	89.0	0.0	0.0	75.3	3.2	4.6	0.0	0.0	0.2	0.0	-0.0	5.8	5.8
5	365796.44	4906591.29	139.60	0	1000	83.4	83.4	0.0	0.0	75.3	6.0	-0.5	0.0	0.0	4.8	0.0	-0.0	-2.2	-2.2
6	365796.44	4906591.29	139.60	0	2000	77.0	77.0	0.0	0.0	75.3	15.9	-1.2	0.0	0.0	4.8	0.0	-0.0	-17.8	-17.8
7	365796.44	4906591.29	139.60	0	4000	68.8	68.8	0.0	0.0	75.3	53.8	-1.2	0.0	0.0	4.8	0.0	-0.0	-63.9	-63.9
8	365796.44	4906591.29	139.60	0	8000	72.0	72.0	0.0	0.0	75.3	191.9	-1.2	0.0	0.0	4.8	0.0	-0.0	-198.8	-198.8

Point Source, ISO 9613, Name: "MVPP P19_U5", ID: "P19_U5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	365748.32	4906700.65	139.00	0	63	80.8	80.8	0.0	0.0	75.3	0.2	-5.8	0.0	0.0	4.8	0.0	-0.0	6.4	6.4
2	365748.32	4906700.65	139.00	0	125	76.6	76.6	0.0	0.0	75.3	0.7	7.1	0.0	0.0	0.0	0.0	-0.0	-6.5	-6.5
3	365748.32	4906700.65	139.00	0	250	77.4	77.4	0.0	0.0	75.3	1.7	9.3	0.0	0.0	0.0	0.0	-0.0	-8.8	-8.8
4	365748.32	4906700.65	139.00	0	500	77.1	77.1	0.0	0.0	75.3	3.2	4.6	0.0	0.0	0.2	0.0	-0.0	-6.1	-6.1
5	365748.32	4906700.65	139.00	0	1000	73.8	73.8	0.0	0.0	75.3	6.0	-0.5	0.0	0.0	4.8	0.0	-0.0	-11.7	-11.7
6	365748.32	4906700.65	139.00	0	2000	69.7	69.7	0.0	0.0	75.3	15.8	-1.2	0.0	0.0	4.8	0.0	-0.0	-25.0	-25.0
7	365748.32	4906700.65	139.00	0	4000	64.3	64.3	0.0	0.0	75.3	53.6	-1.2	0.0	0.0	4.8	0.0	-0.0	-68.2	-68.2
8	365748.32	4906700.65	139.00	0	8000	57.5	57.5	0.0	0.0	75.3	191.3	-1.2	0.0	0.0	4.8	0.0	-0.0	-212.7	-212.7

Point Source, ISO 9613, Name: "MVPP P20_U1", ID: "P20_U1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	365520.76	4906738.15	139.00	0	63	85.8	85.8	0.0	0.0	74.2	0.2	-5.8	0.0	0.0	0.0	0.0	-0.0	17.2	17.2
2	365520.76	4906738.15	139.00	0	125	84.0	84.0	0.0	0.0	74.2	0.6	7.1	0.0	0.0	0.0	0.0	-0.0	2.1	2.1
3	365520.76	4906738.15	139.00	0	250	89.5	89.5	0.0	0.0	74.2	1.5	9.3	0.0	0.0	0.0	0.0	-0.0	4.5	4.5
4	365520.76	4906738.15	139.00	0	500	89.0	89.0	0.0	0.0	74.2	2.8	4.6	0.0	0.0	0.0	0.0	-0.0	7.4	7.4
5	365520.76	4906738.15	139.00	0	1000	83.4	83.4	0.0	0.0	74.2	5.3	-0.5	0.0	0.0	0.0	0.0	-0.0	4.4	4.4
6	365520.76	4906738.15	139.00	0	2000	77.0	77.0	0.0	0.0	74.2	14.0	-1.2	0.0	0.0	0.0	0.0	-0.0	-10.1	-10.1
7	365520.76	4906738.15	139.00	0	4000	68.8	68.8	0.0	0.0	74.2	47.4	-1.2	0.0	0.0	0.0	0.0	-0.0	-51.7	-51.7
8	365520.76	4906738.15	139.00	0	8000	72.0	72.0	0.0	0.0	74.2	169.2	-1.2	0.0	0.0	0.0	0.0	-0.0	-170.3	-170.3

Point Source, ISO 9613, Name: "MVPP P21_U1", ID: "P21_U1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	365071.71	4905332.22	135.40	0	63	80.8	80.8	0.0	0.0	71.8	0.1	-5.7	0.0	0.0	4.8	0.0	-0.0	9.8	9.8
2	365071.71	4905332.22	135.40	0	125	76.6	76.6	0.0	0.0	71.8	0.5	6.9	0.0	0.0	0.0	0.0	-0.0	-2.5	-2.5
3	365071.71	4905332.22	135.40	0	250	77.4	77.4	0.0	0.0	71.8	1.1	9.3	0.0	0.0	0.0	0.0	-0.0	-4.8	-4.8
4	365071.71	4905332.22	135.40	0	500	77.1	77.1	0.0	0.0	71.8	2.1	4.6	0.0	0.0	0.2	0.0	-0.0	-1.6	-1.6
5	365071.71	4905332.22	135.40	0	1000	73.8	73.8	0.0	0.0	71.8	4.0	-0.5	0.0	0.0	4.8	0.0	-0.0	-6.3	-6.3
6	365071.71	4905332.22	135.40	0	2000	69.7	69.7	0.0	0.0	71.8	10.6	-1.1	0.0	0.0	4.8	0.0	-0.0	-16.3	-16.3
7	365071.71	4905332.22	135.40	0	4000	64.3	64.3	0.0	0.0	71.8	35.9	-1.1	0.0	0.0	4.8	0.0	-0.0	-47.0	-47.0
8	365071.71	4905332.22	135.40	0	8000	57.5	57.5	0.0	0.0	71.8	128.0	-1.1	0.0	0.0	4.8	0.0	-0.0	-145.9	-145.9

Point Source, ISO 9613, Name: "MVPP P21_U2", ID: "P21_U2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	365012.21	4905471.43	138.00	0	63	80.8	80.8	0.0	0.0	70.6	0.1	-5.7	0.0	0.0	0.0	0.0	-0.0	15.7	15.7
2	365012.21	4905471.43	138.00	0	125	76.6	76.6	0.0	0.0	70.6	0.4	6.6	0.0	0.0	0.0	0.0	-0.0	-1.1	-1.1
3	365012.21	4905471.43	138.00	0	250	77.4	77.4	0.0	0.0	70.6	1.0	9.3	0.0	0.0	0.0	0.0	-0.0	-3.5	-3.5
4	365012.21	4905471.43	138.00	0	500	77.1	77.1	0.0	0.0	70.6	1.9	4.6	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0
5	365012.21	4905471.43	138.00	0	1000	73.8	73.8	0.0	0.0	70.6	3.5	-0.5	0.0	0.0	0.0	0.0	-0.0	0.1	0.1
6	365012.21	4905471.43	138.00	0	2000	69.7	69.7	0.0	0.0	70.6	9.3	-1.1	0.0	0.0	0.0	0.0	-0.0	-9.1	-9.1
7	365012.21	4905471.43	138.00	0	4000	64.3	64.3	0.0	0.0	70.6	31.5	-1.1	0.0	0.0	0.0	0.0	-0.0	-36.7	-36.7
8	365012.21	4905471.43	138.00	0	8000	57.5	57.5	0.0	0.0	70.6	112.3	-1.1	0.0	0.0	0.0	0.0	-0.0	-124.3	-124.3

Point Source, ISO 9613, Name: "MVPP P21_U3", ID: "P21_U3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364960.01	4905590.49	138.00	0	63	85.8	85.8	0.0	0.0	69.6	0.1	-5.6	0.0	0.0	0.0	0.0	-0.0	21.7	21.7
2	364960.01	4905590.49	138.00	0	125	84.0	84.0	0.0	0.0	69.6	0.4	6.2	0.0	0.0	0.0	0.0	-0.0	7.8	7.8
3	364960.01	4905590.49	138.00	0	250	89.5	89.5	0.0	0.0	69.6	0.9	9.3	0.0	0.0	0.0	0.0	-0.0	9.7	9.7
4	364960.01	4905590.49	138.00	0	500	89.0	89.0	0.0	0.0	69.6	1.6	4.6	0.0	0.0	0.0	0.0	-0.0	13.1	13.1
5	364960.01	4905590.49	138.00	0	1000	83.4	83.4	0.0	0.0	69.6	3.1	-0.5	0.0	0.0	0.0	0.0	-0.0	11.2	11.2
6	364960.01	4905590.49	138.00	0	2000	77.0	77.0	0.0	0.0	69.6	8.2	-1.1	0.0	0.0	0.0	0.0	-0.0	0.3	0.3
7	364960.01	4905590.49	138.00	0	4000	68.8	68.8	0.0	0.0	69.6	27.9	-1.1	0.0	0.0	0.0	0.0	-0.0	-27.5	-27.5
8	364960.01	4905590.49	138.00	0	8000	72.0	72.0	0.0	0.0	69.6	99.3	-1.1	0.0	0.0	0.0	0.0	-0.0	-95.8	-95.8

Point Source, ISO 9613, Name: "MVPP P21_U4", ID: "P21_U4"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364887.80	4905798.99	139.00	0	63	85.8	85.8	0.0	0.0	67.8	0.1	-5.5	0.0	0.0	0.0	0.0	-0.0	23.5	23.5
2	364887.80	4905798.99	139.00	0	125	84.0	84.0	0.0	0.0	67.8	0.3	5.3	0.0	0.0	0.0	0.0	-0.0	10.6	10.6
3	364887.80	4905798.99	139.00	0	250	89.5	89.5	0.0	0.0	67.8	0.7	9.3	0.0	0.0	0.0	0.0	-0.0	11.7	11.7
4	364887.80	4905798.99	139.00	0	500	89.0	89.0	0.0	0.0	67.8	1.3	4.6	0.0	0.0	0.0	0.0	-0.0	15.3	15.3
5	364887.80	4905798.99	139.00	0	1000	83.4	83.4	0.0	0.0	67.8	2.5	-0.5	0.0	0.0	0.0	0.0	-0.0	13.6	13.6
6	364887.80	4905798.99	139.00	0	2000	77.0	77.0	0.0	0.0	67.8	6.7	-1.1	0.0	0.0	0.0	0.0	-0.0	3.7	3.7
7	364887.80	4905798.99	139.00	0	4000	68.8	68.8	0.0	0.0	67.8	22.6	-1.1	0.0	0.0	0.0	0.0	-0.0	-20.5	-20.5
8	364887.80	4905798.99	139.00	0	8000	72.0	72.0	0.0	0.0	67.8	80.6	-1.1	0.0	0.0	0.0	0.0	-0.0	-75.3	-75.3



Point Source, ISO 9613, Name: "MVPP P21_U5", ID: "P21_U5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364849.54	4905888.67	139.00	0	63	85.8	85.8	0.0	0.0	66.9	0.1	-5.5	0.0	0.0	0.0	0.0	-0.0	24.3	24.3
2	364849.54	4905888.67	139.00	0	125	84.0	84.0	0.0	0.0	66.9	0.3	4.9	0.0	0.0	0.0	0.0	-0.0	12.0	12.0
3	364849.54	4905888.67	139.00	0	250	89.5	89.5	0.0	0.0	66.9	0.7	9.3	0.0	0.0	0.0	0.0	-0.0	12.6	12.6
4	364849.54	4905888.67	139.00	0	500	89.0	89.0	0.0	0.0	66.9	1.2	4.7	0.0	0.0	0.0	0.0	-0.0	16.2	16.2
5	364849.54	4905888.67	139.00	0	1000	83.4	83.4	0.0	0.0	66.9	2.3	-0.5	0.0	0.0	0.0	0.0	-0.0	14.7	14.7
6	364849.54	4905888.67	139.00	0	2000	77.0	77.0	0.0	0.0	66.9	6.0	-1.1	0.0	0.0	0.0	0.0	-0.0	5.1	5.1
7	364849.54	4905888.67	139.00	0	4000	68.8	68.8	0.0	0.0	66.9	20.5	-1.1	0.0	0.0	0.0	0.0	-0.0	-17.5	-17.5
8	364849.54	4905888.67	139.00	0	8000	72.0	72.0	0.0	0.0	66.9	73.1	-1.1	0.0	0.0	0.0	0.0	-0.0	-66.9	-66.9

Point Source, ISO 9613, Name: "MVPP P21_U6", ID: "P21_U6"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364807.00	4905988.05	139.00	0	63	85.8	85.8	0.0	0.0	66.0	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	25.1	25.1
2	364807.00	4905988.05	139.00	0	125	84.0	84.0	0.0	0.0	66.0	0.2	4.3	0.0	0.0	0.0	0.0	-0.0	13.4	13.4
3	364807.00	4905988.05	139.00	0	250	89.5	89.5	0.0	0.0	66.0	0.6	9.3	0.0	0.0	0.0	0.0	-0.0	13.6	13.6
4	364807.00	4905988.05	139.00	0	500	89.0	89.0	0.0	0.0	66.0	1.1	4.7	0.0	0.0	0.0	0.0	-0.0	17.2	17.2
5	364807.00	4905988.05	139.00	0	1000	83.4	83.4	0.0	0.0	66.0	2.1	-0.5	0.0	0.0	0.0	0.0	-0.0	15.8	15.8
6	364807.00	4905988.05	139.00	0	2000	77.0	77.0	0.0	0.0	66.0	5.5	-1.1	0.0	0.0	0.0	0.0	-0.0	6.6	6.6
7	364807.00	4905988.05	139.00	0	4000	68.8	68.8	0.0	0.0	66.0	18.5	-1.1	0.0	0.0	0.0	0.0	-0.0	-14.6	-14.6
8	364807.00	4905988.05	139.00	0	8000	72.0	72.0	0.0	0.0	66.0	66.0	-1.1	0.0	0.0	0.0	0.0	-0.0	-58.9	-58.9

Point Source, ISO 9613, Name: "MVPP P21_U7", ID: "P21_U7"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364764.34	4906087.38	138.89	0	63	85.8	85.8	0.0	0.0	65.3	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	25.8	25.8
2	364764.34	4906087.38	138.89	0	125	84.0	84.0	0.0	0.0	65.3	0.2	3.9	0.0	0.0	0.0	0.0	-0.0	14.5	14.5
3	364764.34	4906087.38	138.89	0	250	89.5	89.5	0.0	0.0	65.3	0.5	9.3	0.0	0.0	0.0	0.0	-0.0	14.3	14.3
4	364764.34	4906087.38	138.89	0	500	89.0	89.0	0.0	0.0	65.3	1.0	4.7	0.0	0.0	0.0	0.0	-0.0	18.0	18.0
5	364764.34	4906087.38	138.89	0	1000	83.4	83.4	0.0	0.0	65.3	1.9	-0.4	0.0	0.0	0.0	0.0	-0.0	16.6	16.6
6	364764.34	4906087.38	138.89	0	2000	77.0	77.0	0.0	0.0	65.3	5.0	-1.1	0.0	0.0	0.0	0.0	-0.0	7.8	7.8
7	364764.34	4906087.38	138.89	0	4000	68.8	68.8	0.0	0.0	65.3	17.0	-1.1	0.0	0.0	0.0	0.0	-0.0	-12.5	-12.5
8	364764.34	4906087.38	138.89	0	8000	72.0	72.0	0.0	0.0	65.3	60.7	-1.1	0.0	0.0	0.0	0.0	-0.0	-53.0	-53.0

Point Source, ISO 9613, Name: "MVPP P21_U8", ID: "P21_U8"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364721.79	4906186.64	138.70	0	63	80.8	80.8	0.0	0.0	64.9	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	21.2	21.2
2	364721.79	4906186.64	138.70	0	125	76.6	76.6	0.0	0.0	64.9	0.2	3.7	0.0	0.0	0.0	0.0	-0.0	7.8	7.8
3	364721.79	4906186.64	138.70	0	250	77.4	77.4	0.0	0.0	64.9	0.5	9.4	0.0	0.0	0.0	0.0	-0.0	2.6	2.6
4	364721.79	4906186.64	138.70	0	500	77.1	77.1	0.0	0.0	64.9	1.0	4.7	0.0	0.0	0.0	0.0	-0.0	6.6	6.6
5	364721.79	4906186.64	138.70	0	1000	73.8	73.8	0.0	0.0	64.9	1.8	-0.4	0.0	0.0	0.0	0.0	-0.0	7.5	7.5
6	364721.79	4906186.64	138.70	0	2000	69.7	69.7	0.0	0.0	64.9	4.8	-1.1	0.0	0.0	0.0	0.0	-0.0	1.1	1.1
7	364721.79	4906186.64	138.70	0	4000	64.3	64.3	0.0	0.0	64.9	16.2	-1.1	0.0	0.0	0.0	0.0	-0.0	-15.7	-15.7
8	364721.79	4906186.64	138.70	0	8000	57.5	57.5	0.0	0.0	64.9	57.8	-1.1	0.0	0.0	0.0	0.0	-0.0	-64.1	-64.1

Point Source, ISO 9613, Name: "MVPP P21_U9", ID: "P21_U9"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364666.58	4906315.75	138.33	0	63	80.8	80.8	0.0	0.0	64.9	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	21.2	21.2
2	364666.58	4906315.75	138.33	0	125	76.6	76.6	0.0	0.0	64.9	0.2	3.7	0.0	0.0	0.0	0.0	-0.0	7.7	7.7
3	364666.58	4906315.75	138.33	0	250	77.4	77.4	0.0	0.0	64.9	0.5	9.4	0.0	0.0	0.0	0.0	-0.0	2.6	2.6
4	364666.58	4906315.75	138.33	0	500	77.1	77.1	0.0	0.0	64.9	1.0	4.7	0.0	0.0	0.0	0.0	-0.0	6.5	6.5
5	364666.58	4906315.75	138.33	0	1000	73.8	73.8	0.0	0.0	64.9	1.8	-0.4	0.0	0.0	0.0	0.0	-0.0	7.5	7.5
6	364666.58	4906315.75	138.33	0	2000	69.7	69.7	0.0	0.0	64.9	4.8	-1.1	0.0	0.0	0.0	0.0	-0.0	1.1	1.1
7	364666.58	4906315.75	138.33	0	4000	64.3	64.3	0.0	0.0	64.9	16.3	-1.1	0.0	0.0	0.0	0.0	-0.0	-15.8	-15.8
8	364666.58	4906315.75	138.33	0	8000	57.5	57.5	0.0	0.0	64.9	58.1	-1.1	0.0	0.0	0.0	0.0	-0.0	-64.4	-64.4

Point Source, ISO 9613, Name: "MVPP P22_U1", ID: "P22_U1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364908.22	4905312.38	137.18	0	63	85.8	85.8	0.0	0.0	70.9	0.1	-5.7	0.0	0.0	0.0	0.0	-0.0	20.4	20.4
2	364908.22	4905312.38	137.18	0	125	84.0	84.0	0.0	0.0	70.9	0.4	6.7	0.0	0.0	0.0	0.0	-0.0	6.0	6.0
3	364908.22	4905312.38	137.18	0	250	89.5	89.5	0.0	0.0	70.9	1.0	9.3	0.0	0.0	0.0	0.0	-0.0	8.3	8.3
4	364908.22	4905312.38	137.18	0	500	89.0	89.0	0.0	0.0	70.9	1.9	4.6	0.0	0.0	0.0	0.0	-0.0	11.5	11.5
5	364908.22	4905312.38	137.18	0	1000	83.4	83.4	0.0	0.0	70.9	3.6	-0.5	0.0	0.0	0.0	0.0	-0.0	9.3	9.3
6	364908.22	4905312.38	137.18	0	2000	77.0	77.0	0.0	0.0	70.9	9.6	-1.1	0.0	0.0	0.0	0.0	-0.0	-2.4	-2.4
7	364908.22	4905312.38	137.18	0	4000	68.8	68.8	0.0	0.0	70.9	32.5	-1.1	0.0	0.0	0.0	0.0	-0.0	-33.5	-33.5
8	364908.22	4905312.38	137.18	0	8000	72.0	72.0	0.0	0.0	70.9	116.0	-1.1	0.0	0.0	0.0	0.0	-0.0	-113.8	-113.8

Point Source, ISO 9613, Name: "MVPP P22_U2", ID: "P22_U2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364844.75	4905461.03	138.00	0	63	85.8	85.8	0.0	0.0	69.5	0.1	-5.6	0.0	0.0	0.0	0.0	-0.0	21.8	21.8
2	364844.75	4905461.03	138.00	0	125	84.0	84.0	0.0	0.0	69.5	0.4	6.2	0.0	0.0	0.0	0.0	-0.0	8.0	8.0
3	364844.75	4905461.03	138.00	0	250	89.5	89.5	0.0	0.0	69.5	0.9	9.3	0.0	0.0	0.0	0.0	-0.0	9.8	9.8
4	364844.75	4905461.03	138.00	0	500	89.0	89.0	0.0	0.0	69.5	1.6	4.6	0.0	0.0	0.0	0.0	-0.0	13.3	13.3
5	364844.75	4905461.03	138.00	0	1000	83.4	83.4	0.0	0.0	69.5	3.1	-0.5	0.0	0.0	0.0	0.0	-0.0	11.3	11.3
6	364844.75	4905461.03	138.00	0	2000	77.0	77.0	0.0	0.0	69.5	8.1	-1.1	0.0	0.0	0.0	0.0	-0.0	0.5	0.5
7	364844.75	4905461.03	138.00	0	4000	68.8	68.8	0.0	0.0	69.5	27.6	-1.1	0.0	0.0	0.0	0.0	-0.0	-27.1	-27.1
8	364844.75	4905461.03	138.00	0	8000	72.0	72.0	0.0	0.0	69.5	98.3	-1.1	0.0	0.0	0.0	0.0	-0.0	-94.6	-94.6

Point Source, ISO 9613, Name: "MVPP P22_U3", ID: "P22_U3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364757.23	4905639.73	138.00	0	63	85.8	85.8	0.0	0.0	67.3	0.1	-5.5	0.0	0.0	0.0	0.0	-0.0	23.9	23.9
2	364757.23	4905639.73	138.00	0	125	84.0	84.0	0.0	0.0	67.3	0.3	5.1	0.0	0.0	0.0	0.0	-0.0	11.3	11.3
3	364757.23	4905639.73	138.00	0	250	89.5	89.5	0.0	0.0	67.3	0.7	9.3	0.0	0.0	0.0	0.0	-0.0	12.2	12.2
4	364757.23	4905639.73	138.00	0	500	89.0	89.0	0.0	0.0	67.3	1.3	4.6	0.0	0.0	0.0	0.0	-0.0	15.7	15.7
5	364757.23	4905639.73	138.00	0	1000	83.4	83.4	0.0	0.0	67.3	2.4	-0.5	0.0	0.0	0.0	0.0	-0.0	14.1	14.1
6	364757.23	4905639.73	138.00	0	2000	77.0	77.0	0.0	0.0	67.3	6.3	-1.1	0.0	0.0	0.0	0.0	-0.0	4.4	4.4
7	364757.23	4905639.73	138.00	0	4000	68.8	68.8	0.0	0.0	67.3	21.5	-1.1	0.0	0.0	0.0	0.0	-0.0	-18.9	-18.9
8	364757.23	4905639.73	138.00	0	8000	72.0	72.0	0.0	0.0	67.3	76.7	-1.1	0.0	0.0	0.0	0.0	-0.0	-71.0	-71.0

Point Source, ISO 9613, Name: "MVPP P22_U4", ID: "P22_U4"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364685.19	4905808.96	138.51	0	63	85.8	85.8	0.0	0.0	65.0	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	26.1	26.1
2	364685.19	4905808.96	138.51	0	125	84.0	84.0	0.0	0.0	65.0	0.2	3.8	0.0	0.0	0.0	0.0	-0.0	15.0	15.0
3	364685.19	4905808.96	138.51	0	250	89.5	89.5	0.0	0.0	65.0	0.5	9.3	0.0	0.0	0.0	0.0	-0.0	14.6	14.6
4	364685.19	4905808.96	138.51	0	500	89.0	89.0	0.0	0.0	65.0	1.0	4.7	0.0	0.0	0.0	0.0	-0.0	18.3	18.3
5	364685.19	4905808.96	138.51	0	1000	83.4	83.4	0.0	0.0	65.0	1.8	-0.4	0.0	0.0	0.0	0.0	-0.0	17.0	17.0
6	364685.19	4905808.96	138.51	0	2000	77.0	77.0	0.0	0.0	65.0	4.8	-1.1	0.0	0.0	0.0	0.0	-0.0	8.2	8.2
7	364685.19	4905808.96	138.51	0	4000	68.8	68.8	0.0	0.0	65.0	16.4	-1.1	0.0	0.0	0.0	0.0	-0.0	-11.6	-11.6
8	364685.19	4905808.96	138.51	0	8000	72.0	72.0	0.0	0.0	65.0	58.6	-1.1	0.0	0.0	0.0	0.0	-0.0	-50.6	-50.6

Point Source, ISO 9613, Name: "MVPP P22_U5", ID: "P22_U5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364625.85	4905948.14	138.54	0	63	80.8	80.8	0.0	0.0	62.9	0.1	-5.2	0.0	0.0	0.0	0.0	-0.0	23.1	23.1
2	364625.85	4905948.14	138.54	0	125	76.6	76.6	0.0	0.0	62.9	0.2	2.8	0.0	0.0	0.0	0.0	-0.0	10.8	10.8
3	364625.85	4905948.14	138.54	0	250	77.4	77.4	0.0	0.0	62.9	0.4	9.4	0.0	0.0	0.0	0.0	-0.0	4.7	4.7
4	364625.85	4905948.14	138.54	0	500	77.1	77.1	0.0	0.0	62.9	0.8	4.7	0.0	0.0	0.0	0.0	-0.0	8.7	8.7
5	364625.85	4905948.14	138.54	0	1000	73.8	73.8	0.0	0.0	62.9	1.4	-0.4	0.0	0.0	0.0	0.0	-0.0	9.9	9.9
6	364625.85	4905948.14	138.54	0	2000	69.7	69.7	0.0	0.0	62.9	3.8	-1.0	0.0	0.0	0.0	0.0	-0.0	4.0	4.0
7	364625.85	4905948.14	138.54	0	4000	64.3	64.3	0.0	0.0	62.9	12.9	-1.0	0.0	0.0	0.0	0.0	-0.0	-10.5	-10.5
8	364625.85	4905948.14	138.54	0	8000	57.5	57.5	0.0	0.0	62.9	46.0	-1.0	0.0	0.0	0.0	0.0	-0.0	-50.4	-50.4

Point Source, ISO 9613, Name: "MVPP P22_U6", ID: "P22_U6"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364479.24	4906107.06	138.16	0	63	80.8	80.8	0.0	0.0	58.6	0.0	-4.7	0.0	0.0	0.0	0.0	-0.0	26.9	26.9
2	364479.24	4906107.06	138.16	0	125	76.6	76.6	0.0	0.0	58.6	0.1	1.4	0.0	0.0	0.0	0.0	-0.0	16.5	16.5
3	364479.24	4906107.06	138.16	0	250	77.4	77.4	0.0	0.0	58.6	0.3	9.4	0.0	0.0	0.0	0.0	-0.0	9.2	9.2
4	364479.24	4906107.06	138.16	0	500	77.1	77.1	0.0	0.0	58.6	0.5	4.8	0.0	0.0	0.0	0.0	-0.0	13.3	13.3
5	364479.24	4906107.06	138.16	0	1000	73.8	73.8	0.0	0.0	58.6	0.9	-0.3	0.0	0.0	0.0	0.0	-0.0	14.6	14.6
6	364479.24	4906107.06	138.16	0	2000	69.7	69.7	0.0	0.0	58.6	2.3	-0.9	0.0	0.0	0.0	0.0	-0.0	9.7	9.7
7	364479.24	4906107.06	138.16	0	4000	64.3	64.3	0.0	0.0	58.6	7.9	-0.9	0.0	0.0	0.0	0.0	-0.0	-1.2	-1.2
8	364479.24	4906107.06	138.16	0	8000	57.5	57.5	0.0	0.0	58.6	28.0	-0.9	0.0	0.0	0.0	0.0	-0.0	-28.2	-28.2

Point Source, ISO 9613, Name: "MVPP P23_U1", ID: "P23_U1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364702.26	4905252.91	137.09	0	63	85.8	85.8	0.0	0.0	70.3	0.1	-5.7	0.0	0.0	0.0	0.0	-0.0	21.1	21.1
2	364702.26	4905252.91	137.09	0	125	84.0	84.0	0.0	0.0	70.3	0.4	6.5	0.0	0.0	0.0	0.0	-0.0	6.9	6.9
3	364702.26	4905252.91	137.09	0	250	89.5	89.5	0.0	0.0	70.3	1.0	9.3	0.0	0.0	0.0	0.0	-0.0	9.0	9.0
4	364702.26	4905252.91	137.09	0	500	89.0	89.0	0.0	0.0	70.3	1.8	4.6	0.0	0.0	0.0	0.0	-0.0	12.3	12.3
5	364702.26	4905252.91	137.09	0	1000	83.4	83.4	0.0	0.0	70.3	3.4	-0.5	0.0	0.0	0.0	0.0	-0.0	10.3	10.3
6	364702.26	4905252.91	137.09	0	2000	77.0	77.0	0.0	0.0	70.3	8.9	-1.1	0.0	0.0	0.0	0.0	-0.0	-1.0	-1.0
7	364702.26	4905252.91	137.09	0	4000	68.8	68.8	0.0	0.0	70.3	30.1	-1.1	0.0	0.0	0.0	0.0	-0.0	-30.5	-30.5
8	364702.26	4905252.91	137.09	0	8000	72.0	72.0	0.0	0.0	70.3	107.5	-1.1	0.0	0.0	0.0	0.0	-0.0	-104.6	-104.6

Point Source, ISO 9613, Name: "MVPP P23_U2", ID: "P23_U2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364647.31	4905381.74	137.00	0	63	85.8	85.8	0.0	0.0	68.8	0.1	-5.6	0.0	0.0	0.0	0.0	-0.0	22.4	22.4
2	364647.31	4905381.74	137.00	0	125	84.0	84.0	0.0	0.0	68.8	0.3	5.9	0.0	0.0	0.0	0.0	-0.0	8.9	8.9
3	364647.31	4905381.74	137.00	0	250	89.5	89.5	0.0	0.0	68.8	0.8	9.3	0.0	0.0	0.0	0.0	-0.0	10.5	10.5
4	364647.31	4905381.74	137.00	0	500	89.0	89.0	0.0	0.0	68.8	1.5	4.6	0.0	0.0	0.0	0.0	-0.0	14.0	14.0
5	364647.31	4905381.74	137.00	0	1000	83.4	83.4	0.0	0.0	68.8	2.9	-0.5	0.0	0.0	0.0	0.0	-0.0	12.2	12.2
6	364647.31	4905381.74	137.00	0	2000	77.0	77.0	0.0	0.0	68.8	7.5	-1.1	0.0	0.0	0.0	0.0	-0.0	1.7	1.7
7	364647.31	4905381.74	137.00	0	4000	68.8	68.8	0.0	0.0	68.8	25.6	-1.1	0.0	0.0	0.0	0.0	-0.0	-24.5	-24.5
8	364647.31	4905381.74	137.00	0	8000	72.0	72.0	0.0	0.0	68.8	91.3	-1.1	0.0	0.0	0.0	0.0	-0.0	-87.0	-87.0

Point Source, ISO 9613, Name: "MVPP P23_U3", ID: "P23_U3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364591.18	4905510.78	137.00	0	63	85.8	85.8	0.0	0.0	67.1	0.1	-5.5	0.0	0.0	0.0	0.0	-0.0	24.1	24.1
2	364591.18	4905510.78	137.00	0	125	84.0	84.0	0.0	0.0	67.1	0.3	5.0	0.0	0.0	0.0	0.0	-0.0	11.6	11.6
3	364591.18	4905510.78	137.00	0	250	89.5	89.5	0.0	0.0	67.1	0.7	9.3	0.0	0.0	0.0	0.0	-0.0	12.4	12.4
4	364591.18	4905510.78	137.00	0	500	89.0	89.0	0.0	0.0	67.1	1.2	4.7	0.0	0.0	0.0	0.0	-0.0	16.0	16.0
5	364591.18	4905510.78	137.00	0	1000	83.4	83.4	0.0	0.0	67.1	2.3	-0.5	0.0	0.0	0.0	0.0	-0.0	14.4	14.4
6	364591.18	4905510.78	137.00	0	2000	77.0	77.0	0.0	0.0	67.1	6.2	-1.1	0.0	0.0	0.0	0.0	-0.0	4.8	4.8
7	364591.18	4905510.78	137.00	0	4000	68.8	68.8	0.0	0.0	67.1	21.0	-1.1	0.0	0.0	0.0	0.0	-0.0	-18.3	-18.3
8	364591.18	4905510.78	137.00	0	8000	72.0	72.0	0.0	0.0	67.1	75.0	-1.1	0.0	0.0	0.0	0.0	-0.0	-69.0	-69.0

Point Source, ISO 9613, Name: "MVPP P23_U4", ID: "P23_U4"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364536.15	4905639.71	137.49	0	63	85.8	85.8	0.0	0.0	65.0	0.1	-5.4	0.0	0.0	0.0	0.0	-0.0	26.1	26.1
2	364536.15	4905639.71	137.49	0	125	84.0	84.0	0.0	0.0	65.0	0.2	3.8	0.0	0.0	0.0	0.0	-0.0	15.0	15.0
3	364536.15	4905639.71	137.49	0	250	89.5	89.5	0.0	0.0	65.0	0.5	9.3	0.0	0.0	0.0	0.0	-0.0	14.6	14.6
4	364536.15	4905639.71	137.49	0	500	89.0	89.0	0.0	0.0	65.0	1.0	4.7	0.0	0.0	0.0	0.0	-0.0	18.3	18.3
5	364536.15	4905639.71	137.49	0	1000	83.4	83.4	0.0	0.0	65.0	1.8	-0.4	0.0	0.0	0.0	0.0	-0.0	16.9	16.9
6	364536.15	4905639.71	137.49	0	2000	77.0	77.0	0.0	0.0	65.0	4.9	-1.1	0.0	0.0	0.0	0.0	-0.0	8.2	8.2
7	364536.15	4905639.71	137.49	0	4000	68.8	68.8	0.0	0.0	65.0	16.5	-1.1	0.0	0.0	0.0	0.0	-0.0	-11.7	-11.7
8	364536.15	4905639.71	137.49	0	8000	72.0	72.0	0.0	0.0	65.0	58.9	-1.1	0.0	0.0	0.0	0.0	-0.0	-50.8	-50.8

Point Source, ISO 9613, Name: "MVPP P23_U5", ID: "P23_U5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364472.51	4905788.75	138.00	0	63	85.8	85.8	0.0	0.0	61.8	0.0	-5.1	0.0	0.0	0.0	0.0	-0.0	29.1	29.1
2	364472.51	4905788.75	138.00	0	125	84.0	84.0	0.0	0.0	61.8	0.1	2.3	0.0	0.0	0.0	0.0	-0.0	19.7	19.7
3	364472.51	4905788.75	138.00	0	250	89.5	89.5	0.0	0.0	61.8	0.4	9.4	0.0	0.0	0.0	0.0	-0.0	17.9	17.9
4	364472.51	4905788.75	138.00	0	500	89.0	89.0	0.0	0.0	61.8	0.7	4.7	0.0	0.0	0.0	0.0	-0.0	21.8	21.8
5	364472.51	4905788.75	138.00	0	1000	83.4	83.4	0.0	0.0	61.8	1.3	-0.4	0.0	0.0	0.0	0.0	-0.0	20.7	20.7
6	364472.51	4905788.75	138.00	0	2000	77.0	77.0	0.0	0.0	61.8	3.3	-1.0	0.0	0.0	0.0	0.0	-0.0	12.9	12.9
7	364472.51	4905788.75	138.00	0	4000	68.8	68.8	0.0	0.0	61.8	11.4	-1.0	0.0	0.0	0.0	0.0	-0.0	-3.3	-3.3
8	364472.51	4905788.75	138.00	0	8000	72.0	72.0	0.0	0.0	61.8	40.5	-1.0	0.0	0.0	0.0	0.0	-0.0	-29.3	-29.3

Point Source, ISO 9613, Name: "MVPP P23_U6", ID: "P23_U6"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364417.53	4905918.08	138.00	0	63	80.8	80.8	0.0	0.0	57.7	0.0	-4.5	0.0	0.0	0.0	0.0	-0.0	27.6	27.6
2	364417.53	4905918.08	138.00	0	125	76.6	76.6	0.0	0.0	57.7	0.1	1.3	0.0	0.0	0.0	0.0	-0.0	17.5	17.5
3	364417.53	4905918.08	138.00	0	250	77.4	77.4	0.0	0.0	57.7	0.2	9.4	0.0	0.0	0.0	0.0	-0.0	10.1	10.1
4	364417.53	4905918.08	138.00	0	500	77.1	77.1	0.0	0.0	57.7	0.4	4.8	0.0	0.0	0.0	0.0	-0.0	14.2	14.2
5	364417.53	4905918.08	138.00	0	1000	73.8	73.8	0.0	0.0	57.7	0.8	-0.3	0.0	0.0	0.0	0.0	-0.0	15.6	15.6
6	364417.53	4905918.08	138.00	0	2000	69.7	69.7	0.0	0.0	57.7	2.1	-0.9	0.0	0.0	0.0	0.0	-0.0	10.8	10.8
7	364417.53	4905918.08	138.00	0	4000	64.3	64.3	0.0	0.0	57.7	7.1	-0.9	0.0	0.0	0.0	0.0	-0.0	0.4	0.4
8	364417.53	4905918.08	138.00	0	8000	57.5	57.5	0.0	0.0	57.7	25.4	-0.9	0.0	0.0	0.0	0.0	-0.0	-24.7	-24.7

Point Source, ISO 9613, Name: "MVPP P23_U7", ID: "P23_U7"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	364363.31	4906048.77	138.00	0	63	80.8	80.8	0.0	0.0	52.4	0.0	-3.3	0.0	0.0	0.0	0.0	-0.0	31.7	31.7
2	364363.31	4906048.77	138.00	0	125	76.6	76.6	0.0	0.0	52.4	0.1	0.8	0.0	0.0	0.0	0.0	-0.0	23.3	23.3
3	364363.31	4906048.77	138.00	0	250	77.4	77.4	0.0	0.0	52.4	0.1	8.8	0.0	0.0	0.0	0.0	-0.0	16.1	16.1
4	364363.31	4906048.77	138.00	0	500	77.1	77.1	0.0	0.0	52.4	0.2	4.5	0.0	0.0	0.0	0.0	-0.0	19.9	19.9
5	364363.31	4906048.77	138.00	0	1000	73.8	73.8	0.0	0.0	52.4	0.4	-0.1	0.0	0.0	0.0	0.0	-0.0	21.1	21.1
6	364363.31	4906048.77	138.00	0	2000	69.7	69.7	0.0	0.0	52.4	1.1	-0.7	0.0	0.0	0.0	0.0	-0.0	16.8	16.8
7	364363.31	4906048.77	138.00	0	4000	64.3	64.3	0.0	0.0	52.4	3.8	-0.7	0.0	0.0	0.0	0.0	-0.0	8.7	8.7
8	364363.31	4906048.77	138.00	0	8000	57.5	57.5	0.0	0.0	52.4	13.7	-0.7	0.0	0.0	0.0	0.0	-0.0	-7.9	-7.9

Point Source, ISO 9613, Name: "MVPP P24_U1", ID: "P24_U1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	365118.98	4904975.38	133.37	0	63	85.8	85.8	0.0	0.0	73.8	0.2	-5.8	0.0	0.0	4.8	0.0	-0.0	12.8	12.8
2	365118.98	4904975.38	133.37	0	125	84.0	84.0	0.0	0.0	73.8	0.6	7.1	0.0	0.0	0.0	0.0	-0.0	2.5	2.5
3	365118.98	4904975.38	133.37	0	250	89.5	89.5	0.0	0.0	73.8	1.5	9.3	0.0	0.0	0.0	0.0	-0.0	5.0	5.0
4	365118.98	4904975.38	133.37	0	500	89.0	89.0	0.0	0.0	73.8	2.7	4.6	0.0	0.0	0.2	0.0	-0.0	7.7	7.7
5	365118.98	4904975.38	133.37	0	1000	83.4	83.4	0.0	0.0	73.8	5.1	-0.5	0.0	0.0	4.8	0.0	-0.0	0.3	0.3
6	365118.98	4904975.38	133.37	0	2000	77.0	77.0	0.0	0.0	73.8	13.4	-1.2	0.0	0.0	4.8	0.0	-0.0	-13.8	-13.8
7	365118.98	4904975.38	133.37	0	4000	68.8	68.8	0.0	0.0	73.8	45.4	-1.2	0.0	0.0	4.8	0.0	-0.0	-54.1	-54.1
8	365118.98	4904975.38	133.37	0	8000	72.0	72.0	0.0	0.0	73.8	162.0	-1.2	0.0	0.0	4.8	0.0	-0.0	-167.4	-167.4

Point Source, ISO 9613, Name: "MVPP P24_U2", ID: "P24_U2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	365141.36	4905112.81	133.88	0	63	80.8	80.8	0.0	0.0	73.3	0.2	-5.8	0.0	0.0	4.8	0.0	-0.0	8.4	8.4
2	365141.36	4905112.81	133.88	0	125	76.6	76.6	0.0	0.0	73.3	0.5	7.1	0.0	0.0	0.0	0.0	-0.0	-4.3	-4.3
3	365141.36	4905112.81	133.88	0	250	77.4	77.4	0.0	0.0	73.3	1.4	9.3	0.0	0.0	0.0	0.0	-0.0	-6.5	-6.5
4	365141.36	4905112.81	133.88	0	500	77.1	77.1	0.0	0.0	73.3	2.5	4.6	0.0	0.0	0.2	0.0	-0.0	-3.4	-3.4
5	365141.36	4905112.81	133.88	0	1000	73.8	73.8	0.0	0.0	73.3	4.7	-0.5	0.0	0.0	4.8	0.0	-0.0	-8.5	-8.5
6	365141.36	4905112.81	133.88	0	2000	69.7	69.7	0.0	0.0	73.3	12.5	-1.2	0.0	0.0	4.8	0.0	-0.0	-19.7	-19.7
7	365141.36	4905112.81	133.88	0	4000	64.3	64.3	0.0	0.0	73.3	42.5	-1.2	0.0	0.0	4.8	0.0	-0.0	-55.1	-55.1
8	365141.36	4905112.81	133.88	0	8000	57.5	57.5	0.0	0.0	73.3	151.6	-1.2	0.0	0.0	4.8	0.0	-0.0	-171.0	-171.0

Point Source, ISO 9613, Name: "MVPP P24_U3", ID: "P24_U3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	365345.08	4905014.75	134.79	0	63	85.8	85.8	0.0	0.0	74.6	0.2	-5.8	0.0	0.0	4.8	0.0	-0.0	12.1	12.1
2	365345.08	4905014.75	134.79	0	125	84.0	84.0	0.0	0.0	74.6	0.6	7.1	0.0	0.0	0.0	0.0	-0.0	1.7	1.7
3	365345.08	4905014.75	134.79	0	250	89.5	89.5	0.0	0.0	74.6	1.6	9.3	0.0	0.0	0.0	0.0	-0.0	4.1	4.1
4	365345.08	4905014.75	134.79	0	500	89.0	89.0	0.0	0.0	74.6	2.9	4.6	0.0	0.0	0.2	0.0	-0.0	6.7	6.7
5	365345.08	4905014.75	134.79	0	1000	83.4	83.4	0.0	0.0	74.6	5.5	-0.5	0.0	0.0	4.8	0.0	-0.0	-1.0	-1.0
6	365345.08	4905014.75	134.79	0	2000	77.0	77.0	0.0	0.0	74.6	14.6	-1.2	0.0	0.0	4.8	0.0	-0.0	-15.8	-15.8
7	365345.08	4905014.75	134.79	0	4000	68.8	68.8	0.0	0.0	74.6	49.5	-1.2	0.0	0.0	4.8	0.0	-0.0	-58.9	-58.9
8	365345.08	4905014.75	134.79	0	8000	72.0	72.0	0.0	0.0	74.6	176.6	-1.2	0.0	0.0	4.8	0.0	-0.0	-182.8	-182.8

**APPENDIX J**

**POINT OF RECEPTION CONCORDANCE TABLE**

## Appendix J: POR Concordance Table



Project: Sol-Luce Kingston Solar PV Energy Project  
 Location: Kingston ON

UTM Coordinates		Noise Receptor ID			Distance to Nearest Source (m)			Sound Level Contribution (dBA)			Total Sound Level (dBA)
Easting (m)	Northing (m)	Sol-luce Kingston	Westbrook Solar	Kingston Gardiner	Sol-luce Kingston	Westbrook Solar	Kingston Gardiner	Sol-luce Kingston	Westbrook Solar	Kingston Gardiner	
363674	4905289	POR001	-	-	930	5718	3515	33	0	0	33
363794	4905429	POR002	-	-	768	5579	3495	34	0	0	34
364074	4905779	POR003	-	-	370	5264	3500	38	0	0	38
364166	4905882	POR004	-	-	254	5165	3506	39	0	0	39
364246	4906051	POR005	-	-	117	5079	3574	40	0	0	40
364328	4906180	POR006	-	-	136	4995	3618	40	0	0	40
364435	4906341	POR007	-	-	233	4891	3679	39	0	0	39
364423	4906517	POR008	-	-	316	4912	3828	36	0	0	36
364535	4906443	POR009	-	-	183	4796	3704	38	0	0	38
364496	4906731	POR010	-	-	449	4860	3965	31	0	0	31
364877	4906760	POR011	-	-	491	4485	3798	35	0	0	35
364575	4906916	POR012	-	-	608	4807	4082	30	0	0	30
365438	4906947	POR013	-	-	225	3961	3751	37	0	0	37
365824	4906970	POR014	-	-	162	3589	3669	38	0	0	38
365813	4907340	POR015	-	-	519	3684	4033	31	0	0	31
366006	4907398	POR016	-	-	577	3509	4055	31	0	0	31
366076	4906749	POR017	-	-	126	3298	3403	40	0	0	40
366177	4906667	POR018	-	-	185	3185	3306	39	0	0	39
366249	4906424	POR019	-	-	240	3084	3057	38	0	0	38
366287	4906347	POR020	-	-	306	3041	2975	36	0	0	36
366841	4906227	POR021	-	-	864	2483	2843	29	0	0	29
366774	4906090	POR022	-	-	856	2551	2702	28	0	0	28
366475	4906165	POR023	-	-	562	2848	2778	30	0	0	30
366036	4906191	POR024	-	-	303	3288	2862	36	0	0	36
366367	4906131	POR025	-	-	502	2957	2752	32	0	0	32
366282	4906105	POR026	-	-	469	3043	2736	32	0	0	32
366121	4906011	POR027	-	-	493	3206	2669	34	0	0	34
365896	4906109	POR028	-	-	404	3428	2815	36	0	0	36
365719	4905791	POR029	-	-	764	3624	2567	36	0	0	36
365618	4905717	POR030	-	-	653	3734	2537	37	0	0	37
365573	4905681	POR031	-	-	599	3782	2523	37	0	0	37
365636	4905676	POR032	-	-	657	3720	2492	37	0	0	37
365583	4905637	POR033	-	-	594	3779	2479	37	0	0	37
365333	4905535	POR034	-	-	327	4041	2507	39	0	0	39
365369	4905459	POR035	-	-	323	4019	2424	39	0	0	39
365290	4905358	POR036	-	-	220	4115	2382	38	0	0	38
365179	4904779	POR037	-	-	205	4372	2010	39	0	0	39
364852	4904498	POR038	-	-	547	4775	2098	34	0	0	34
364699	4904336	POR039	-	-	765	4976	2138	33	0	0	33
364673	4904024	POR040	-	-	1050	5123	2018	30	0	0	30
364533	4904010	POR041	-	-	1130	5257	2142	30	0	0	30

UTM Coordinates		Noise Receptor ID			Distance to Nearest Source (m)			Sound Level Contribution (dBA)			Total Sound Level (dBA)
Easting (m)	Northing (m)	Sol-luce Kingston	Westbrook Solar	Kingston Gardiner	Sol-luce Kingston	Westbrook Solar	Kingston Gardiner	Sol-luce Kingston	Westbrook Solar	Kingston Gardiner	
364334	4903986	POR042	-	-	1263	5448	2320	29	0	0	29
364403	4904262	POR043	-	-	1011	5279	2363	31	0	0	31
364210	4904183	POR044	-	-	1178	5487	2505	30	0	0	30
364139	4904010	POR045	-	-	1365	5617	2512	29	0	0	29
366749	4907702	POR046	-	-	544	2895	4311	34	0	0	34
366794	4907844	POR047	-	-	395	2912	4454	36	0	0	36
366917	4907854	POR048	-	-	360	2806	4471	36	0	0	36
366878	4907989	POR049	-	-	231	2904	4603	36	0	0	36
366765	4908063	POR050	-	-	226	3039	4673	37	0	0	37
366607	4908072	POR051	-	-	356	3182	4680	34	0	0	34
366663	4908145	POR052	-	-	279	3168	4753	37	0	0	37
366624	4908373	POR053	-	-	304	3319	4981	37	0	0	37
366705	4908451	POR054	-	-	226	3294	5060	39	0	0	39
366652	4908460	POR055	-	-	280	3344	5068	38	0	0	38
366655	4908543	POR056	-	-	269	3388	5151	38	0	0	38
366635	4908622	POR057	-	-	284	3451	5230	38	0	0	38
366624	4908749	POR058	-	-	329	3536	5357	37	0	0	37
366582	4908917	POR059	-	-	461	3673	5525	32	0	0	32
366648	4909043	POR060	-	-	418	3705	5651	33	0	0	33
367016	4910060	POR061	-	-	904	4227	6679	28	0	0	28
367266	4910349	POR062	-	-	1209	4338	6985	25	0	0	25
367411	4910357	POR063	-	-	1250	4275	7008	25	0	0	25
367120	4908246	POR064	-	-	190	2837	4879	39	0	0	39
367056	4908173	POR065	-	-	129	2848	4799	39	0	0	39
367428	4908096	POR066	-	-	307	2500	4771	38	0	0	38
367336	4907996	POR067	-	-	441	2517	4658	37	0	0	37
367424	4907955	POR068	-	-	408	2421	4631	38	0	0	38
367640	4907903	POR069	-	-	276	2215	4622	39	0	0	39
367636	4907974	POR070	-	-	277	2261	4690	39	0	0	39
367669	4908129	POR071	-	-	147	2335	4848	39	0	0	39
367948	4908749	POR072	-	-	263	2618	5516	36	0	0	36
368275	4908124	POR073	-	-	212	1919	5008	40	7	0	40
368313	4908138	POR074	-	-	229	1908	5035	40	7	0	40
368426	4908150	POR075	-	-	244	1856	5084	40	12	0	40
368477	4908346	POR076	-	-	434	1999	5285	38	0	0	38
368826	4908612	POR077	-	-	623	2114	5662	39	0	0	39
368762	4908115	POR078	-	-	192	1667	5180	39	16	0	39
368878	4908170	POR079	-	-	308	1677	5279	39	18	0	39
369098	4908093	POR080	V18	-	460	1544	5308	39	20	0	39
369215	4908086	POR081	V11	-	571	1517	5357	39	21	0	39
369362	4908338	POR082	-	-	463	1756	5648	40	15	0	40
369605	4908239	POR083	-	-	464	1657	5685	39	19	0	39
369758	4908368	POR084	-	-	267	1786	5876	40	15	0	40
369924	4908274	POR085	-	-	222	1692	5887	38	16	0	38
369797	4908147	POR086	V14	-	392	1566	5711	38	20	0	38
369899	4908142	POR087	V19	-	356	1559	5764	38	20	0	38
370056	4908282	POR088	-	-	209	1709	5969	38	15	0	38



UTM Coordinates		Noise Receptor ID			Distance to Nearest Source (m)			Sound Level Contribution (dBA)			Total Sound Level (dBA)
Easting (m)	Northing (m)	Sol-luce Kingston	Westbrook Solar	Kingston Gardiner	Sol-luce Kingston	Westbrook Solar	Kingston Gardiner	Sol-luce Kingston	Westbrook Solar	Kingston Gardiner	
370552	4908625	POR089	-	-	372	2151	6537	35	0	0	35
370697	4908843	POR090	-	-	165	2405	6799	39	0	0	39
370666	4909184	POR091	-	-	111	2718	7057	40	0	0	40
370365	4909176	POR092	-	-	182	2639	6883	39	0	0	39
370413	4909228	POR093	-	-	125	2699	6953	39	0	0	39
370488	4909382	POR094	-	-	162	2865	7123	37	0	0	37
370378	4909505	POR095	-	-	193	2965	7168	36	0	0	36
370422	4909603	POR096	-	-	284	3070	7276	36	0	0	36
370395	4909646	POR097	-	-	294	3107	7298	36	0	0	36
370771	4907280	POR098	R21	-	553	1135	5677	30	21	0	31
370967	4907225	POR099	R20	-	742	1266	5785	28	20	0	29
370930	4907207	POR100	R19	-	705	1225	5745	28	20	0	29
370902	4907096	POR101	V17	-	673	1147	5651	29	23	0	30
370804	4907054	POR102	R18	-	575	1041	5550	30	22	0	30
370645	4906988	POR103	V8	-	415	869	5387	35	26	0	36
370603	4907066	POR104	V6	-	373	873	5408	36	25	0	37
370408	4906967	POR105	V10	-	178	656	5198	39	28	0	39
370350	4906948	POR106	V5	-	117	598	5143	40	27	0	40
370372	4906952	POR107	V9	-	140	618	5162	39	28	0	40
370400	4906775	POR108	V7	-	228	558	5062	36	29	0	37
370294	4906668	POR109	V4	-	268	426	4912	35	31	0	37
370307	4906548	POR110	R17	-	389	431	4843	33	30	0	35
370314	4906430	POR111	R16	-	506	461	4771	31	30	0	34
369878	4906079	POR112	V3	-	922	177	4213	30	38	0	39
369827	4906079	POR113	R15	-	943	126	4173	30	39	0	39
368966	4906833	POR114	-	-	389	517	4157	38	31	0	39
368747	4906779	POR115	-	-	333	700	3992	39	28	0	39
368537	4906762	POR116	-	-	336	899	3870	39	26	0	40
368508	4906042	POR117	V2	-	1055	826	3245	32	26	0	33
368414	4906049	POR118	V1	-	1051	918	3198	32	25	0	33
367483	4906764	POR119	-	-	541	1932	3477	36	14	0	36
367133	4906729	POR120	-	-	753	2260	3374	34	0	0	34
367503	4906637	POR121	-	-	659	1878	3359	35	14	0	35
367326	4906616	POR122	-	-	737	2046	3298	34	0	0	34
367154	4906611	POR123	-	-	830	2213	3261	33	0	0	33