Appendix J 3 Stadium Noise

Appendices

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The Ontario Regional Sports Complex
Draft EIR

Stadium Noise Analysis

Technical Report

HMMH Project Number 23-0251A

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1. Summary

This technical appendix includes a noise analysis related to the entertainment events that will take place at the proposed baseball stadium at The Ontario Regional Sports Complex (ORSC). The noise analysis was prepared in support of the Environmental Impact Report (SEIR), pursuant to the requirements of the California Environmental Quality Act (CEQA). The technical appendix is divided into sections that address anticipated noise from minor league baseball games, including regular season weeknight and weekend games. Details include assumptions developed to define number of games, time of games, number of anticipated spectators and PA systems. Reference source levels and predicted levels at individual receptors are provided in **Attachments A and B.**

A detailed geometric model of the noise study area was developed using Geographic Information System (GIS) software and the proposed ORSC site plan. SoundPLAN GmbH was used for computing the proposed stadium equivalent sound level ($L_{eq(h)}$), Community Noise Equivalent Level (CNEL) and maximum sound level (L_{max}) from minor league baseball games and concerts at neighboring residences and other noise-sensitive uses[1] throughout the surrounding adjacent community.

Noise from stadium events, including baseball games and concerts, would not exceed applicable thresholds.

[1] Noise-sensitive uses are places that might contain noise-sensitive equipment; individuals who are particularly susceptible to noise stimuli, such as children or the elderly; or accommodations for people to sleep. Such uses include residences, hospitals, hotels, and schools.

2. Environmental Setting

2.1 Noise Descriptors

Noise levels are presented on a logarithmic scale to account for the large pressure response range of the human ear. This logarithmic scale is expressed in units of decibels (dB). A dB is defined as the ratio between a measured value and a reference value usually corresponding to the lower threshold of human hearing. The lower threshold of human hearing is defined as 20 micropascals. Typically, a noise analysis examines 11 octave (or 33 1/3 octave) bands ranging from 16 hertz (low) to 16,000 hertz (high). This octave band encompasses the human audible frequency range. The human ear does not perceive every frequency with equal loudness; therefore, spectrally varying sounds are often adjusted with a weighting filter. The A weighted filter is applied to compensate for the frequency response of the human auditory system, known as a dBA. The A-weighted sound level is commonly used when measuring environmental noise and is widely accepted by acousticians as a proper unit for describing environmental noise.

An inherent property of the logarithmic dB scale is that the sound pressure levels of two separate sources are not directly additive. For example, if a sound of 50 dBA is added to another sound of 50 dBA in the proximity, the result is a 3 dB increase, which is a total of 53 dBA and not an arithmetic doubling to 100 dBA. The human ear perceives changes in sound pressure level relative to changes in "loudness." Scientific research demonstrates the following general relationships between sound level and human perception for two sound levels with the same or very similar frequency characteristics:

- One dBA is the practical limit of accuracy for sound measurement systems and corresponds to an approximate 10 percent variation in the sound pressure level. A 1-dBA increase or decrease is a non-perceptible change in sound.
- A 3-dBA increase or decrease is a doubling (or halving) of acoustic pressure level, and it corresponds to the threshold of change in loudness perceptible in a laboratory environment. In practice, the average person is not able to distinguish a 3-dBA difference in environmental sound outdoors.
- A 5-dBA increase or decrease is described as a perceptible change in sound level and is a discernible change in an outdoor environment.
- A 10-dBA increase or decrease is a tenfold increase or decrease in acoustic pressure level but is perceived as a doubling or halving in loudness (e.g., the average person would judge a 10-dBA change in sound level to be twice or half as loud).

Some common sounds on the dBA scale are listed in **Table 1**. As shown, the relative perceived loudness of a sound doubles for each increase of 10 dBA, and a 10 dBA change in the sound level corresponds to a factor of 10 increase or decrease in relative sound energy. **Figure 1** depicts the estimations of common noise sources and outdoor acoustic environments and provides a comparison of relative loudness for each of these sources.

Table 1. Common Sounds on the A-Weighted Decibel Scale

Sound	Sound Level (dBA)	Relative Loudness (approximate)	Relative Sound Energy
Rock music, with amplifier	120	64	1,000,000
Thunder, snowmobile (operator)	110	32	100,000
Boiler shop, power mower	100	16	10,000
Orchestral crescendo at 25 feet, noisy kitchen	90	8	1,000
Busy street	80	4	100
Interior of department store	70	2	10
Ordinary conversation, 3 feet away	60	1	1
Quiet automobiles at low speed	50	½	.1
Average office	40	¼	.01
City residence	30	1/8	.001
Quiet country residence	20	1/16	.0001
Rustle of leaves	10	1/32	.00001
Threshold of hearing	0	1/64	.000001

Source: U.S. Department of Housing and Urban Development. Aircraft Noise Impact--Planning Guidelines for Local Agencies, Figure 2-2. 1972.

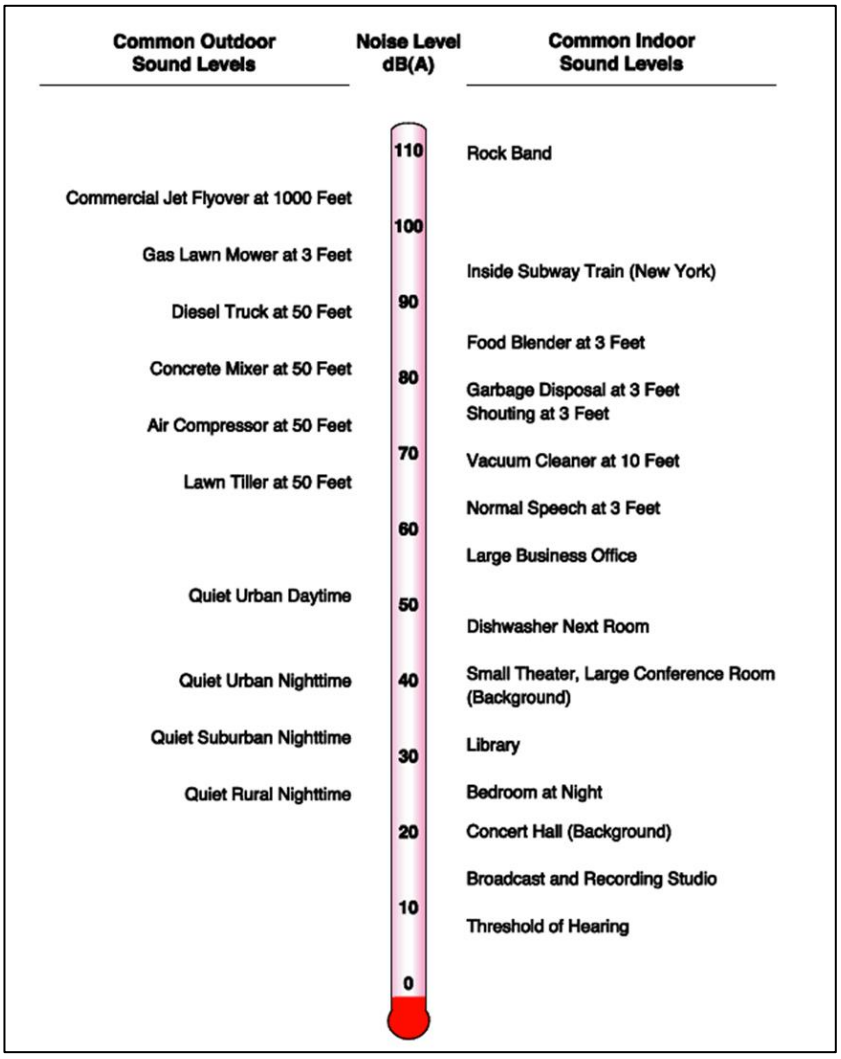

Figure 1. Sound Levels
Source: HMMH 2019

Noise levels can be measured, modeled, and presented in various formats. The noise metrics that were employed in this analysis have the following definitions:

- L_{eq}: Most environmental noise fluctuates from moment to moment, and it is common practice to characterize the fluctuating level by a single number, L_{eq}. Conventionally expressed in dBA, the L_{eq} is the energy-averaged, A-weighted sound level. It is defined as the steady, continuous sound level over a specified time, which has the same acoustic energy as the actual varying sound levels over the specified period. The daytime L_{eq} is the energy-averaged sound level for the daytime period (7:00 a.m. to 10:00 p.m.), and the nighttime L_{eq} is the energy averaged sound level for the nighttime period (10:00 p.m. to 7:00 a.m.). For traffic noise assessment, L_{eq} is typically evaluated over a one-hour period and may be denoted as $L_{eq(h)}$.
- Community noise equivalent level (CNEL): The energy-average of the A-weighted sound levels occurring during a 24-hour period, with 5 dB added to the sound levels occurring during

evening hours (7:00 p.m. to 10:00 p.m.) and 10 dB added to noise levels occurring during nighttime hours (10:00 p.m. to 7:00 a.m.).

- L_{max}: The maximum noise level is the highest instantaneous noise level during a specified time period.

2.2 Effects of Noise on Humans

The effects of noise on humans can be grouped into three general categories (U.S. EPA 1979):

- Subjective effects of annoyance, nuisance, dissatisfaction;
- Physiological effects such as starting hearing loss; and,
- Interference with activities such as speech, sleep, and learning.

With respect to annoyance, human response to sound is highly individualized. Many factors influence the response to noise including the character of the noise, the variability of the sound level, the presence of tones or impulses, and the time of day of the occurrence. Additionally, non-acoustical factors, such as individual opinion of the noise source, the ability to adapt to the noise, the attitude towards the source and those associated with it, and the predictability of the noise, all influence the response to noise. These factors result in the reaction to noise being highly subjective, with the perceived effect of a particular noise varying widely among individuals in a community.

Noise-induced hearing loss usually takes years to develop. Hearing loss is one of the most obvious and easily quantifiable effects of excessive exposure to noise. While the loss may be temporary at first, it can become permanent after continued exposure. When combined with hearing loss associated with aging, the amount of hearing loss directly due to the environment is difficult to quantify. Although the major cause of noise-induced hearing loss is occupational, nonoccupational sources may also be a factor.

Noise can mask important sounds and disrupt communication between individuals in a variety of settings. This process can cause anything from a slight irritation to a serious safety hazard, depending on the circumstance. Noise can disrupt face-to-face communication and telephone communication, and the enjoyment of music and television in the home. Interference with communication has proved to be one of the most important components of noise-related annoyance.

Relative to noise being a source of annoyance, including sleep disturbance, and having health impacts, there are various uncertainties and debate within the scientific community regarding the exact relationship between noise and these types of impacts, particularly as related to assessing whether there would be a significant impact under CEQA.

3. Methodology

To evaluate the compatibility of the proposed stadium with the surrounding existing land use and determine the potential for significant effect on the environment, the CNEL, L_{eq} and L_{max} were calculated using the commercially available SoundPLAN GmbH three-dimensional (3-D) acoustical prediction software package. An industry standard, SoundPLAN GmbH was developed by Braunstein + Berndt GmbH to provide estimates of sound levels at distances from specific noise sources accounting for the effects of terrain features including relative elevations of noise sources, receivers, and intervening objects (buildings, hills, trees), and ground effects due to areas of hard ground (pavement, water) and soft ground (grass, field, forest). In addition to computing sound levels at specific receiver positions, SoundPLAN GmbH computes color noise contour maps showing areas of equal and similar sound level. SoundPLAN GmbH also accounts for shielding and reflections from intervening buildings, walls, earthen berms, and other structures.

A detailed geometric model of the noise study area was first developed using GIS software. Data included detailed digital terrain with elevation obtained from the U.S. Geological Survey (USGS) 3D elevation program[2] as well as building footprints, which were obtained from Microsoft Building Footprints, accessed through ArcGIS Online.[3] Existing building heights were estimated based on Microsoft Streetside imagery™, accessed via Bing maps. Aerial photography was obtained from ESRI as well as the U.S. Department of Agriculture's (USDA's) National Agriculture Imagery Program (NAIP).[4] Placeworks provided a CAD file of the proposed site layout, including proposed buildings and other features of the site, planned number of stories for each building, which was used to estimate on-site building heights. For the stadium data, Populous provided concept plans and sections with above ground heights to help us determine the stadium heights.

All data digitized in GIS was imported into SoundPLAN GmbH, and a digital ground model was generated to assign base elevations to all modeled features and account for attenuation effects due to changes in terrain. Ground type on- and off-site was assumed to be "compacted field and gravel" (compacted lawns, park areas).

As detailed within Section 3 of the EIR, the stadium will have a seating capacity of 6,000 people with 4,500 of those being fixed seats. The remaining would be standing room or field seating in grassy areas around the stadium. The proposed hotel on the northeast end of the site is an important feature included in the modeling as it is very close to the stadium.

Two scenarios were evaluated to address noise from the stadium:

1. Minor League Regular Season Game – Minor league season games that start at 6:30 p.m. Monday – Friday or 2:00 p.m. on Sundays from April to September
2. Concerts – Evening concerts starting at 5:00 p.m. and concluding before 10:00 p.m.

Source level data for the baseball game scenarios were established via sound measurements conducted during Rancho Cucamonga Quakes minor league baseball games in September of 2023 and supplemented, as needed, with source data from the SoundPLAN library. The Quakes baseball team is

[2] https://apps.nationalmap.gov/downloader

[3] The development to the east of the project site (Countryside) was manually digitized using aerial photography, since building footprints were not available.

[4] https://datagateway.nrcs.usda.gov/GDGHome_DirectDownLoad.aspx

a Low-A minor league affiliate of the Los Angeles Dodgers who play in the California league. Low-A teams are the starting place for high school and college draft picks of the Major League Baseball (MLB) team and serve as a developmental league. These games can generate high attendance as fans can see closeup heralded prospects which generates excitement and increased fan participation and noise.

For the concert scenario source levels are based on data included in the SoundPLAN library for musical concerts. Source levels used in the Stadium noise model are provided in **Attachment A** along with the source of each, either via measurements at the Quakes Stadium or from the SoundPLAN library.

Schedules for games, attendance, seating, and quantity of events were supplied by the Quakes and the City of Ontario. Average game duration of three hours 39 minutes is based on data collected and analyzed by Baseball America.[5] Based on discussions with the Quakes baseball operations staff, Thursday and Saturday nights are the most popular nights for games. Measurements were conducted at games on these nights to obtain various sources such as fans cheering and the public address (PA) system. Handheld spot measurements were recorded before the game prior to the stadium being open to the public to characterize the PA system under various conditions. Additional monitoring was conducted during the game to characterize in game PA system sounds, such as music and announcements, as well as fans reactions during game action (hits, double plays, fans upset with umpires, etc.).

Game durations were used to define the time active for each noise source during a game or event operating hours. All usage information for the stadium was vetted with the City of Ontario Recreation and Community Department.

[5] https://www.baseballamerica.com/stories/pitch-clocks-shortened-minor-league-games-by-26-minutes-in-2022/

4. Regulatory Framework

Several federal, state, and local regulations, ordinances, and guidelines have been established to control noise and minimize effects on humans. The Noise Control Act of 1972 (42 United States Code Section 4901) was the first comprehensive statement of national noise policy. It declared that "it is the policy of the United States to promote an environment for all Americans free from noise that jeopardizes their health or welfare" (GSA 1972).

The State of California and the City of Ontario have adopted a number of policies that are based in part on federal and state regulations and are directed at controlling or mitigating environmental noise effects. The government agency policies that are relevant to the stadium noise analysis for the ORSC are discussed below.

4.1 State

CEQA Thresholds of Significance

According to Appendix G of the CEQA Guidelines, a project would normally have a significant effect on the environment if the project would result in:

- **Threshold A**: Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
- **Threshold B**: Would the project result in generation of excessive groundborne vibration or groundborne noise levels?
- **Threshold C:** For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

General Plan Guidelines

The Governor's Office of Planning and Research (OPR) is required to adopt and periodically revise the State of California's General Plan Guidelines (GPG), which establishes the framework for the development of general plans for cities and counties. With respect to noise, the GPG provides a basis for the control and abatement of environmental noise and limiting excessive noise exposure for California residents. The GPG focuses on land use compatibility with the existing ambient environment and establishes CNEL and L_{dn} thresholds for community noise exposure by land use category that define normally acceptable, conditionally acceptable, normally unacceptable, and clearly unacceptable conditions. The recommended thresholds within the GPG may be adopted by cities or modified based on site-specific conditions.

4.2 Local

The Ontario Plan and City of Ontario Code provide the local regulatory environment for the project.

The Ontario Plan

The Ontario Plan (TOP) 2050 includes a "Safety Element" designed to limit excessive community noise exposure through effective and guided land use compatible planning. **Table 2** summarizes the City of Ontario's land use compatibility standards to facilitate land use compatibility, relative to existing and future noise levels.

Table 2. Ontario Noise Level Exposure and Land Use Compatibility Guidelines

Categories	Uses	CNEL (dBA)			
		Clearly Acceptable[1]	Normally Acceptable[2]	Normally Unacceptable[3]	Clearly Unacceptable[4]
Residential/Lodging	Single Family/Duplex	<60	60-65	65-70	70-85
	Multifamily	<60	60-65	65-75	75-85
	Mobile Homes	<60	60-65	-	65-85
	Hotel/Motel	<65	65-70	70-80	80-85
Public/Institutional	Schools/Hospitals	<60	60-65	65-70	70-85
	Churches/Libraries	<60	60-65	65-70	70-85
	Auditoriums/Concert Halls	<55	55-60	60-70	70-85
Commercial	Offices	<65	65-75	75-80	80-85
	Retail	<70	70-75	75-80	80-85
Industrial	Manufacturing	<70	70-75	75-85	-
	Warehousing	<70	70-80	80-85	-
Recreational/Open Space	Parks/Playgrounds	<65	65-70	70-75	75-85
	Golf Course/Riding Stables	<65	65-70	70-75	75-85
	Outdoor Spectator Sports	<60	60-65	65-70	
	Outdoor Music Shells/Amphitheaters	-	<60	60-65	65-85
	Livestock/Wildlife Preserves	<70	-	70-75	75-85
	Crop Agriculture	<55-85	-	-	-

Notes:
1. No special noise insulation required, assuming buildings of normal conventional construction.
2. Acoustical reports will be required for major new residential construction. Conventional construction with closed windows and fresh air supply systems of air conditioning will normally suffice.
3. New construction should be discouraged. Noise/aviation easements required for all new construction. If new construction does proceed, a detailed analysis of noise reduction requirements must be made, and necessary noise insulation features included.
4. No new construction should be permitted.

Source: City of Ontario 2022.

City of Ontario Municipal Code

The City of Ontario Municipal Code, Chapter 29: Noise (hereafter referred to as "the City's noise code"), establishes both exterior and interior noise standards for various land use types grouped into

"noise zones." Maximum permissible noise level limits are established for each noise zone from 7:00 a.m. to 10:00 p.m. and 10:00 p.m. to 7:00 a.m., based on the L_{eq} metric and a duration of 15 minutes. Pursuant to §5-29.04 Exterior noise standards, the ambient noise level shall be the standard if ambient exceeds the established permissible limit at any time in any zone. The code also establishes a maximum instantaneous (L_{max}) permissible noise level limit of the established noise standard for the applicable zone plus 20 dBA during any period, measured in A-weighting on slow response. The limits established for Noise Zone I shall also apply to the exterior of schools, daycare centers, hospitals or other similar healthcare institutions, churches, libraries, or museums during hours of use, pursuant to §5-29.11. **Table 3** summarizes the allowable exterior noise level limits pursuant to §5-29.04(a).

Table 3. Exterior Noise Standards

Noise Zone	Land Use	Allowable Equivalent Noise Level, L_{eq} (dBA)	
		7:00 a.m. – 10:00 p.m.	10:00 p.m. – 7:00 a.m.
I	Single-Family Residential	65	45
II	Multi-Family Residential, Mobile Home Parks	65	50
III	Commercial Property	65	60
IV	Residential Portion of Mixed Use	70	70
V	Manufacturing and Industrial, Other Uses	70	70

Notes:
1. If the ambient level exceeds the standard, the ambient noise level shall be the standard.
2. Compliance is determined on the affected property.
3. Noise standards are based on a 15-min L_{eq}.
4. Maximum instantaneous noise levels (L_{max}) equal to the noise standard limit plus 20 dBA shall not be exceeded at any time, measured using A-weighted with the meter set to slow response. However, if ambient exceeds the standard, the standard shall be increased to reflect the maximum ambient noise level.
5. Noise Zone I noise standards also apply to the exterior of schools, daycare centers, hospitals or other similar healthcare institutions, churches, libraries, or museums during hours of use.
6. Noise Zone IV applies to the portion of the residential property within 100 feet of a commercial property or use, if the noise originates from the commercial property or use.
7. If the compliance location is on the boundary of two different noise zones, the lower noise level standard shall apply.

Source: City of Ontario 2023.

The City's noise code exempts various sources of noise, pursuant to §5-29.06 Exemptions, which are applicable to the proposed stadium and include:

- Activities on public or private property conducted by any public entity or its authorized representatives including sporting and recreational activities that are sponsored, co-sponsored, permitted, or allowed by the City. This also includes sporting and entertainment events conducted pursuant to an approval, authorization, contract, lease, permit, or sublease by the appropriate public entity, specifically the planning commission or City Council.
- Noise sources associated with construction, repair, remodeling, demolition, or grading of any real property, as construction activities are instead subject to the provisions of §5-29.09.
- Noise sources associated with the maintenance of real property. Such activities shall instead be subject to the provisions of §5-29.08.
- Activities regulated by state or federal law.

5. Impact Analysis Results

Modeling receivers were placed in areas of outdoor use within approximately 1,000 feet of the proposed ORSC site boundary. Receivers were combined into six groups, as illustrated in **Figure 2** through **Figure 4** and described in **Table 4**.

Table 4. Summary of Analysis Locations

Receiver Group	Location Relative to Project Site	Land Use Description
1	Northwest of Project Site	Residential use on the north and south side of East Riverside Drive, between Willow Drive and South Vineyard Avenue
2	North of Project Site	Residential and institutional use (Sunrise Childcare Center) on the north side of East Riverside Drive, between Vineyard Avenue and South Whispering Lakes Lane
3	North of Project Site	Recreational use associated with the Whispering Lake Golf Course on the north side of East Riverside Drive, between South Whispering Lakes Lane and Cucamonga Channel
4	Northeast of Project Site	Residential and recreational use (Westwind Community Center) on the north side of East Riverside Drive, between Cucamonga Channel and South Colonial Avenue
5	East of Project Site	Residential and recreational use (Cucamonga Channel Walking Trail) bounded by the Cucamonga Channell to the west, East Riverside Drive to the north, South Colonial Avenue to the east, and Chino Avenue to the south
6	South of Project Site	Residential use on the south side of Chino Avenue, between Vineyard Avenue and Ontario Avenue

Source: HMMH, 2023

The L_{eq} from stadium activities, namely minor league baseball games and concerts, was calculated at each noise-sensitive receptor. The predicted 1-hour L_{eq} was compared to the City's exterior noise limits established within the noise code and presented in **Table 3**. Since most activities are active for a full hour, the 1-hour L_{eq} was used as a surrogate to assess compliance with the 15-minute L_{eq} noise limits in the noise code. **Attachment C** includes a table of predicted sound levels for each modeled receiver.

5.1 Scenario 1 – Minor League Baseball Games

Minor league games would occur Monday through Friday and Saturday and Sunday, totaling 54 home games over the course of a regular season. As described in Section 3, first pitch for these minor league games is assumed to be 6:30 p.m. for weekday and Saturday games and 2:00 p.m. for games on Sundays. Games would last a little over two and a half hours. The following sources and timing are assumed in the noise predictions based on field observations conducted at Quakes baseball games:

- Batting practice and warmups would start four hours before the first pitch. During this time the PA system plays music and various verbal announcements are made.

- The stadium opens to the public two hours before the first pitch; however, crowd noise is minimal with the PA system dominating. For this reason, the analysis only includes the PA system noise during this time.
- During the game, observations indicated that the PA system is active approximately 51% of the time (e.g., between innings, walk up music, and public announcements).
- There are two settings included in the modeling for the PA system:
    - Typical PA setting, representing the sound level that the system operates at for most announcements, music, and other purposes.
    - PA high energy setting, representing the sound level when the PA system sound level is increased to be audible over the crowd during exciting plays such as double plays and scoring plays. The high energy setting is assumed to occur 3% of each game.
- Crowd noise is assumed to occur 3% of each game and is associated with exciting plays.

Source levels used in the predictions are summarized in **Table 5**.

Table 5. Baseball Game Source Levels (dBA)

Source	LwA	Lw Max
PA Typical	88.2	95.97
PA High Energy	116.3	119.5
Crowd	75.4	76.4

Source: HMMH, 2023

Table 6 summarizes the range of predicted $L_{eq(h)}$ by receiver group and land use categories for receptors in the noise study area. As shown in **Table 6**, the highest predicted $L_{eq(h)}$ for each category of land use would be below the corresponding limit per the City's code. For this reason, Scenario 1 noise would be considered insignificant. **Figure 2** illustrates predicted $L_{eq(h)}$ noise level contours for Scenario 1 baseball games.

Table 6. Summary of Predicted $L_{eq(h)}$ – Scenario 1: Regular Weekday Minor League Baseball

Noise Zone[1]	Land Use	Daytime[2] Exterior L_{eq} Criteria (dBA)	Predicted $L_{eq(h)}$ (dBA) Range					
			RCV Group 1	RCV Group 2	RCV Group 3	RCV Group 4	RCV Group 5	RCV Group 6
I	Single-Family Residential	65	19 - 32	21 - 43	NA	43 - 47	22 - 50	13 - 19
II	Multi-Family Residential, Mobile Home Parks	65	18 - 36	21 - 43	NA	NA	NA	NA
V	Manufacturing and industrial, other uses	70	NA	NA	40 - 55	45 - 50	39 - 50	NA

Notes:

1. Pursuant to §5-29.11, the maximum permissible noise level limit established for Noise Zone I also applies to the exterior of schools, daycare centers, hospitals or other similar healthcare institutions, churches, libraries, or museums during hours of use.
2. The City of Ontario's noise code includes both "daytime" (7:00 a.m. – 10:00 p.m.) and "nighttime" (10:00 p.m. - 7:00 a.m.) limits. Since the proposed ORSC is only open between 8:00 a.m. and 10:00 p.m., the "nighttime" limits do not apply.

Source: HMMH, 2023.

Table 7 summarizes the range in predicted hourly L_{max} for each "noise zone" within each receiver group based on definitions in the City's noise code (see **Table 3**). As shown in **Table 7,** the highest predicted L_{max} would be well below applicable criteria for each land use category. For this reason, Scenario 1 noise would be considered insignificant.

Table 7. Summary of Predicted L_{max} – Scenario 1: Regular Weekday Minor League Baseball

Noise Zone[1]	Land Use	Daytime Exterior L_{max} Criteria (dBA)	Predicted $L_{eq(h)}$ (dBA) Range					
			RCV Group 1	RCV Group 2	RCV Group 3	RCV Group 4	RCV Group 5	RCV Group 6
I	Single-Family Residential	85	27 - 46	30 - 56	NA	50 - 55	28 - 58	21 - 26
II	Multi-Family Residential, Mobile Home Parks	85	26 - 50	31 - 54	NA	NA	NA	NA
V	Manufacturing and industrial, other uses	90	NA	NA	51 - 66	53 - 56	46 - 58	NA

Source: HMMH, 2023.

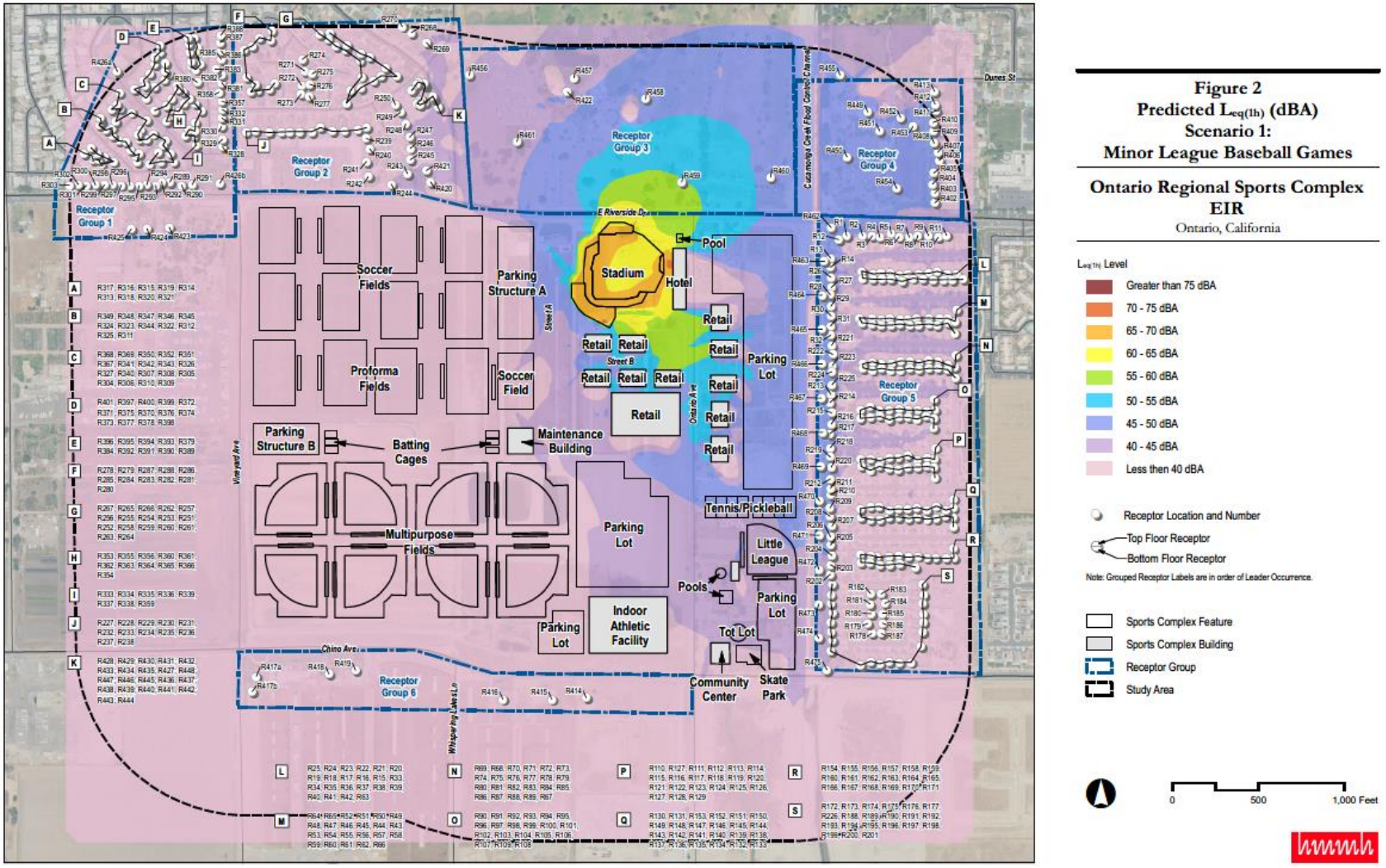

Figure 2. Scenario 1 Leq(h) Noise Contours

5.2 Scenario 2 – Concerts

Concerts would occur periodically throughout the year at the stadium. Music events are assumed to occur from 5:00 p.m. to just before 10:00 p.m. The Scenario 2 analysis assumes that the stage would be roughly in the same location as the baseball infield with the band sound source propagating towards the fans in the stands. The band is assumed to be actively playing 90% of the time and the crowd is assumed to be cheering 10% of the time. Sound sources used in the analysis are from the SoundPLAN default library and are summarized in **Table 8**.

Table 8. Concert Source Levels

Source	Lw[1]
Public Festivals (Band)	75.0 dB
Spectators	73.0 dBA

1. Public festivals and Spectators sound power levels (Lw) on a dB/m^2 basis for area sources.
Source: SoundPLAN, 2017

Table 9 summarizes the range in predicted hourly $L_{eq(h)}$ for each "noise zone" that exists within each receiver group based on definitions in the municipal noise code (see **Table 3**). As shown in **Table 9**, the maximum predicted $L_{eq(h)}$ would be well below applicable criteria for each land use category. **Figure 3** shows predicted L_{eq} noise level contours, representing concerts.

Table 9. Summary of Predicted $L_{eq(h)}$ – Scenario 2: Concerts

Noise Zone[1]	Land Use	Daytime[2] Exterior L_{eq} Criteria (dBA)	Predicted $L_{eq(h)}$ (dBA) Range					
			RCV Group 1	RCV Group 2	RCV Group 3	RCV Group 4	RCV Group 5	RCV Group 6
I	Single-Family Residential	65	7 - 19	14 - 29	NA	27 - 30	8 - 33	5 - 8
II	Multi-Family Residential, Mobile Home Parks	65	10 - 22	14 - 35	NA	NA	NA	NA
V	Manufacturing and industrial, other uses	70	NA	NA	29 - 40	28 - 35	21 - 33	NA

Notes:
1. Pursuant to §5-29.11, the maximum permissible noise level limit established for Noise Zone I also applies to the exterior of schools, daycare centers, hospitals or other similar healthcare institutions, churches, libraries, or museums during hours of use.
2. The City of Ontario's noise code includes both "daytime" (7:00 a.m. – 10:00 p.m.) and "nighttime" (10:00 p.m. - 7:00 a.m.) limits. Since the proposed ORSC is only open between 8:00 a.m. and 10:00 p.m., the "nighttime" limits do not apply.
Source: HMMH, 2023.

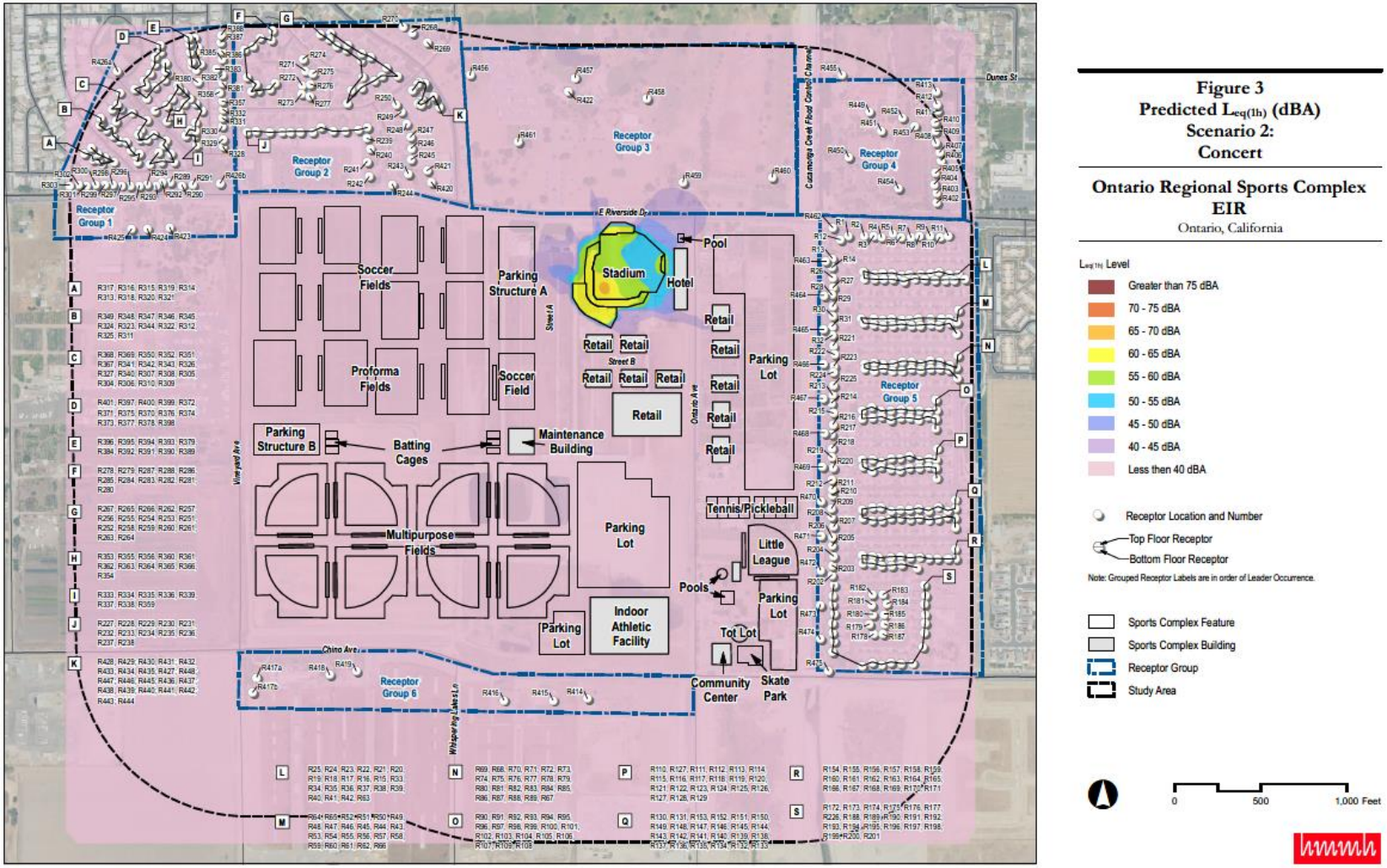

Figure 3. Scenario 3 $L_{eq(h)}$ Noise Contours
Source: HMMH 2023

6. Mitigation

Predicted average hourly and peak noise levels for both Scenario 1 (Regular Season Games) and Scenario 2 (Concerts) would be below the applicable criteria for each land use category. Therefore, future noise levels from the Stadium would be considered less than significant and no mitigation would be required.

7. References

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ATTACHMENT A. SOUNDPLAN SOURCE LEVELS

Table A-1. Baseball Game Source Levels

Sound Source	Lw	Lw Max	Reference
PA Typical	88.2 dBA	96.0 dBA	Quakes Measurements
PA High Energy	116.3 dBA	119.5 dBA	Quakes Measurements
Crowd	75.4 dBA	76.4 dBA	Quakes Measurements
Public Festivals (Band)	75.0 dB	N/A	SoundPLAN
Spectators	73.0 dBA	N/A	SoundPLAN

Source: HMMH, 2023, SoundPLAN, 2017

ATTACHMENT B. PREDICTED SOUND LEVELS AT INDIVIDUAL RECEPTORS

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_1	Residential	44.1	48.1	55.6	65	65	85
Rec_2	Residential	37.4	41.3	53.6	65	65	85
Rec_3	Residential	37.8	41.7	53.2	65	65	85
Rec_4	Residential	36.8	40.7	53	65	65	85
Rec_5	Residential	37.6	41.5	52.4	65	65	85
Rec_6	Residential	29.6	33.5	47	65	65	85
Rec_7	Residential	30.7	34.6	44.2	65	65	85
Rec_8	Residential	36.1	40.1	51.4	65	65	85
Rec_9	Residential	36.2	40.1	51.1	65	65	85
Rec_10	Residential	33.5	37.4	49	65	65	85
Rec_11	Residential	35	39	50.4	65	65	85
Rec_12	Residential	43.9	47.9	56.9	65	65	85
Rec_13	Residential	45.6	49.5	57.7	65	65	85
Rec_14	Residential	45.5	49.4	57.5	65	65	85
Rec_15	Residential	38.5	42.4	54.4	65	65	85
Rec_16	Residential	40.3	44.3	54	65	65	85
Rec_17	Residential	38.2	42.1	53	65	65	85
Rec_18	Residential	31.3	35.2	48.8	65	65	85
Rec_19	Residential	38.6	42.6	51.6	65	65	85
Rec_20	Residential	38.5	42.4	51.2	65	65	85
Rec_21	Residential	39.1	43.1	52.3	65	65	85
Rec_22	Residential	39.7	43.6	52	65	65	85
Rec_23	Residential	39.7	43.7	53	65	65	85
Rec_24	Residential	38.4	42.3	50.3	65	65	85
Rec_25	Residential	35.8	39.8	50	65	65	85
Rec_26	Residential	45.5	49.5	57.6	65	65	85
Rec_27	Residential	45.4	49.3	57.5	65	65	85
Rec_28	Residential	45.3	49.3	57.5	65	65	85
Rec_29	Residential	45.3	49.2	57.3	65	65	85
Rec_30	Residential	45.4	49.3	57.1	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_31	Residential	45.9	49.8	57.6	65	65	85
Rec_32	Residential	46.1	50.1	57.9	65	65	85
Rec_33	Residential	40.7	44.7	54.1	65	65	85
Rec_34	Residential	39	43	52.5	65	65	85
Rec_35	Residential	39.1	43	51.3	65	65	85
Rec_36	Residential	39.1	43	52.4	65	65	85
Rec_37	Residential	39.4	43.3	52.8	65	65	85
Rec_38	Residential	39.3	43.3	51.9	65	65	85
Rec_39	Residential	37.9	41.8	50.3	65	65	85
Rec_40	Residential	36.7	40.7	51.7	65	65	85
Rec_41	Residential	36.1	40	49.5	65	65	85
Rec_42	Residential	36.4	40.4	49.7	65	65	85
Rec_43	Residential	37.6	41.5	51.6	65	65	85
Rec_44	Residential	37.7	41.7	52.8	65	65	85
Rec_45	Residential	38	41.9	51.6	65	65	85
Rec_46	Residential	37.2	41.1	50.7	65	65	85
Rec_47	Residential	38.9	42.9	52.2	65	65	85
Rec_48	Residential	39.1	43.1	52.2	65	65	85
Rec_49	Residential	38	41.9	50.9	65	65	85
Rec_50	Residential	36.5	40.5	49.7	65	65	85
Rec_51	Residential	36.6	40.5	51.7	65	65	85
Rec_52	Residential	36.8	40.7	51.6	65	65	85
Rec_53	Residential	37.7	41.6	52.6	65	65	85
Rec_54	Residential	38.9	42.8	52.7	65	65	85
Rec_55	Residential	38.1	42.1	51.3	65	65	85
Rec_56	Residential	38.5	42.4	51.3	65	65	85
Rec_57	Residential	40.3	44.3	53.3	65	65	85
Rec_58	Residential	40.4	44.3	53.1	65	65	85
Rec_59	Residential	39.6	43.6	53	65	65	85
Rec_60	Residential	39.5	43.4	52.5	65	65	85
Rec_61	Residential	38.6	42.6	52	65	65	85
Rec_62	Residential	39.1	43.1	52.3	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_63	Residential	37	40.9	51.7	65	65	85
Rec_64	Residential	35.2	39.2	49.6	65	65	85
Rec_65	Residential	38.6	42.6	52.3	65	65	85
Rec_66	Residential	32.8	36.8	49.3	65	65	85
Rec_67	Residential	37.3	41.3	50.6	65	65	85
Rec_68	Residential	35.2	39.2	48.8	65	65	85
Rec_69	Residential	38.2	42.2	50.6	65	65	85
Rec_70	Residential	35.8	39.7	49.2	65	65	85
Rec_71	Residential	34.6	38.6	48.5	65	65	85
Rec_72	Residential	33.8	37.7	48.5	65	65	85
Rec_73	Residential	35.9	39.9	49.8	65	65	85
Rec_74	Residential	34.8	38.8	49.2	65	65	85
Rec_75	Residential	31.9	35.8	48.6	65	65	85
Rec_76	Residential	36.5	40.5	50.6	65	65	85
Rec_77	Residential	36.7	40.7	52.6	65	65	85
Rec_78	Residential	34.1	38.1	49.3	65	65	85
Rec_79	Residential	39.4	43.3	54.4	65	65	85
Rec_80	Residential	38.1	42	51.2	65	65	85
Rec_81	Residential	36.6	40.6	49.5	65	65	85
Rec_82	Residential	40.5	44.4	55	65	65	85
Rec_83	Residential	40	44	54.2	65	65	85
Rec_84	Residential	38.2	42.2	53.6	65	65	85
Rec_85	Residential	34.9	38.8	50.8	65	65	85
Rec_86	Residential	36.4	40.4	49.8	65	65	85
Rec_87	Residential	34.1	38	47.4	65	65	85
Rec_88	Residential	33.8	37.7	48.1	65	65	85
Rec_89	Residential	34.7	38.7	49.1	65	65	85
Rec_90	Residential	36.2	40.2	50.9	65	65	85
Rec_91	Residential	37.5	41.4	52	65	65	85
Rec_92	Residential	36.4	40.4	51.6	65	65	85
Rec_93	Residential	36.7	40.7	50.1	65	65	85
Rec_94	Residential	38.8	42.8	52.1	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_95	Residential	38.1	42.1	52.3	65	65	85
Rec_96	Residential	37.5	41.5	51.6	65	65	85
Rec_97	Residential	38.4	42.4	52.6	65	65	85
Rec_98	Residential	33	37	47.5	65	65	85
Rec_99	Residential	34.4	38.3	48	65	65	85
Rec_100	Residential	33.8	37.7	50.5	65	65	85
Rec_101	Residential	35.2	39.1	51.3	65	65	85
Rec_102	Residential	37.6	41.6	50.8	65	65	85
Rec_103	Residential	35.7	39.7	50.8	65	65	85
Rec_104	Residential	34.3	38.2	48.7	65	65	85
Rec_105	Residential	36.3	40.2	50.3	65	65	85
Rec_106	Residential	35.7	39.6	51.4	65	65	85
Rec_107	Residential	37.7	41.7	52.9	65	65	85
Rec_108	Residential	35.6	39.6	48.4	65	65	85
Rec_109	Residential	36.8	40.8	50.9	65	65	85
Rec_110	Residential	35.2	39.1	48.1	65	65	85
Rec_111	Residential	34.9	38.9	50.7	65	65	85
Rec_112	Residential	31.4	35.4	45.7	65	65	85
Rec_113	Residential	33.7	37.6	48.3	65	65	85
Rec_114	Residential	35.4	39.4	49.6	65	65	85
Rec_115	Residential	34.9	38.8	47.5	65	65	85
Rec_116	Residential	33.9	37.8	47.7	65	65	85
Rec_117	Residential	31.7	35.7	47	65	65	85
Rec_118	Residential	38.1	42	50.7	65	65	85
Rec_119	Residential	33.5	37.4	48	65	65	85
Rec_120	Residential	35.8	39.8	49.6	65	65	85
Rec_121	Residential	32.8	36.7	45.9	65	65	85
Rec_122	Residential	34.4	38.3	48.2	65	65	85
Rec_123	Residential	36.6	40.5	50.3	65	65	85
Rec_124	Residential	37	41	50.6	65	65	85
Rec_125	Residential	33.6	37.5	47.3	65	65	85
Rec_126	Residential	34.6	38.5	48.4	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_127	Residential	36.3	40.2	49.7	65	65	85
Rec_128	Residential	33.1	37.1	47.9	65	65	85
Rec_129	Residential	33	37	46.8	65	65	85
Rec_130	Residential	35.4	39.4	48.9	65	65	85
Rec_131	Residential	31.6	35.5	44.7	65	65	85
Rec_132	Residential	35.8	39.8	47.8	65	65	85
Rec_133	Residential	36	40	49.6	65	65	85
Rec_134	Residential	33.4	37.4	46	65	65	85
Rec_135	Residential	33.5	37.4	49.1	65	65	85
Rec_136	Residential	35.1	39.1	48.6	65	65	85
Rec_137	Residential	35.6	39.6	49.4	65	65	85
Rec_138	Residential	33.1	37.1	50.3	65	65	85
Rec_139	Residential	36.9	40.9	51.1	65	65	85
Rec_140	Residential	32.7	36.6	47	65	65	85
Rec_141	Residential	32.2	36.1	46.2	65	65	85
Rec_142	Residential	34	37.9	49.9	65	65	85
Rec_143	Residential	33.5	37.5	47.6	65	65	85
Rec_144	Residential	30.5	34.4	46.8	65	65	85
Rec_145	Residential	32.6	36.6	45.4	65	65	85
Rec_146	Residential	31.5	35.5	43.8	65	65	85
Rec_147	Residential	37	41	49.4	65	65	85
Rec_148	Residential	33.5	37.5	47.1	65	65	85
Rec_149	Residential	34.3	38.3	47	65	65	85
Rec_150	Residential	30.5	34.5	44.9	65	65	85
Rec_151	Residential	32.5	36.5	46.3	65	65	85
Rec_152	Residential	32.3	36.2	46.3	65	65	85
Rec_153	Residential	34.4	38.4	49.1	65	65	85
Rec_154	Residential	33.9	37.8	46	65	65	85
Rec_155	Residential	32.3	36.2	45.6	65	65	85
Rec_156	Residential	28.7	32.6	42.3	65	65	85
Rec_157	Residential	26.5	30.4	40.3	65	65	85
Rec_158	Residential	27.1	31	43.2	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_159	Residential	31.5	35.4	46.4	65	65	85
Rec_160	Residential	31	35	45.2	65	65	85
Rec_161	Residential	32.4	36.3	45.3	65	65	85
Rec_162	Residential	32.9	36.8	48.5	65	65	85
Rec_163	Residential	33.4	37.4	47	65	65	85
Rec_164	Residential	30.8	34.7	46.8	65	65	85
Rec_165	Residential	27.8	31.7	41.9	65	65	85
Rec_166	Residential	32.7	36.6	47.9	65	65	85
Rec_167	Residential	31.2	35.1	46.7	65	65	85
Rec_168	Residential	33.7	37.6	47.8	65	65	85
Rec_169	Residential	32.5	36.4	46.4	65	65	85
Rec_170	Residential	29.1	33	41.7	65	65	85
Rec_171	Residential	28.4	32.3	42	65	65	85
Rec_172	Residential	32.4	36.4	47.4	65	65	85
Rec_173	Residential	27.3	31.3	39.4	65	65	85
Rec_174	Residential	26.5	30.4	42.1	65	65	85
Rec_175	Residential	22.6	26.4	34.5	65	65	85
Rec_176	Residential	24.8	28.7	36.3	65	65	85
Rec_177	Residential	25.5	29.4	37.2	65	65	85
Rec_178	Residential	33.4	37.4	47.6	65	65	85
Rec_179	Residential	34.1	38.1	47.7	65	65	85
Rec_180	Residential	34.8	38.8	46.8	65	65	85
Rec_181	Residential	33.2	37.2	46.8	65	65	85
Rec_182	Residential	31.9	35.8	45.4	65	65	85
Rec_183	Residential	32.9	36.9	46.6	65	65	85
Rec_184	Residential	35.2	39.1	48.7	65	65	85
Rec_185	Residential	33.1	37.1	47	65	65	85
Rec_186	Residential	36.6	40.6	49.9	65	65	85
Rec_187	Residential	32.7	36.6	45.6	65	65	85
Rec_188	Residential	30.9	34.9	43.5	65	65	85
Rec_189	Residential	18	21.8	28.1	65	65	85
Rec_190	Residential	18.9	22.7	31.3	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_191	Residential	19.9	23.7	30.2	65	65	85
Rec_192	Residential	19	22.8	30.5	65	65	85
Rec_193	Residential	17.8	21.6	28	65	65	85
Rec_194	Residential	38.5	42.4	49.2	65	65	85
Rec_195	Residential	38	42	49.2	65	65	85
Rec_196	Residential	39	43	49.8	65	65	85
Rec_197	Residential	39.3	43.3	50.1	65	65	85
Rec_198	Residential	40.5	44.5	51.6	65	65	85
Rec_199	Residential	39.9	43.9	50.8	65	65	85
Rec_200	Residential	40.2	44.2	51.1	65	65	85
Rec_201	Residential	40.3	44.2	51.4	65	65	85
Rec_202	Residential	40.8	44.8	51.7	65	65	85
Rec_203	Residential	41.2	45.1	52.1	65	65	85
Rec_204	Residential	41.9	45.8	53.6	65	65	85
Rec_205	Residential	41.8	45.8	52.8	65	65	85
Rec_206	Residential	42.1	46.1	53.1	65	65	85
Rec_207	Residential	42.4	46.3	53.4	65	65	85
Rec_208	Residential	42.7	46.7	53.8	65	65	85
Rec_209	Residential	43	47	54.2	65	65	85
Rec_210	Residential	41.2	45.2	52.3	65	65	85
Rec_211	Residential	43.6	47.6	54.8	65	65	85
Rec_212	Residential	43.9	47.9	55.2	65	65	85
Rec_213	Residential	46	49.9	57.8	65	65	85
Rec_214	Residential	45.9	49.8	57.7	65	65	85
Rec_215	Residential	45.6	49.6	57.3	65	65	85
Rec_216	Residential	45.3	49.3	56.9	65	65	85
Rec_217	Residential	45.2	49.1	56.7	65	65	85
Rec_218	Residential	44.8	48.8	56.2	65	65	85
Rec_219	Residential	44.5	48.5	55.9	65	65	85
Rec_220	Residential	44.2	48.2	55.5	65	65	85
Rec_221	Residential	46.1	50.1	57.9	65	65	85
Rec_222	Residential	46	50	57.8	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_223	Residential	46	49.9	57.8	65	65	85
Rec_224	Residential	45.9	49.9	57.8	65	65	85
Rec_225	Residential	46.1	50.1	57.9	65	65	85
Rec_226	Residential	17.7	21.6	28	65	65	85
Rec_227	Residential	24.9	28.8	41.9	65	65	85
Rec_228	Residential	29	32.9	45.4	65	65	85
Rec_229	Residential	24.6	28.4	38	65	65	85
Rec_230	Residential	31.3	35.2	48.4	65	65	85
Rec_231	Residential	26	29.8	42.9	65	65	85
Rec_232	Residential	30.4	34.3	47.4	65	65	85
Rec_233	Residential	31.9	35.8	49.7	65	65	85
Rec_234	Residential	32	35.9	49.8	65	65	85
Rec_235	Residential	29	32.9	47.1	65	65	85
Rec_236	Residential	32.2	36.1	50	65	65	85
Rec_237	Residential	26.9	30.8	39.6	65	65	85
Rec_238	Residential	29.2	33.1	49.6	65	65	85
Rec_239	Residential	30.6	34.4	43.9	65	65	85
Rec_240	Residential	33	36.9	45.7	65	65	85
Rec_241	Residential	30.5	34.3	45.8	65	65	85
Rec_242	Residential	35.2	39.1	52.3	65	65	85
Rec_243	Residential	38.9	42.8	55.8	65	65	85
Rec_244	Residential	34.3	38.1	50.5	65	65	85
Rec_245	Residential	32.2	36.1	49.4	65	65	85
Rec_246	Residential	32.1	36	49.9	65	65	85
Rec_247	Residential	36.7	40.6	54.1	65	65	85
Rec_248	Residential	36.4	40.3	53	65	65	85
Rec_249	Residential	37	40.9	52.8	65	65	85
Rec_250	Residential	28.9	32.8	41.3	65	65	85
Rec_251	Residential	22.5	26.3	36.6	65	65	85
Rec_252	Residential	17.5	21.1	30.2	65	65	85
Rec_253	Residential	29	32.9	43	65	65	85
Rec_254	Residential	32.7	36.6	48.6	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_255	Residential	27.9	31.7	40	65	65	85
Rec_256	Residential	31.2	35.2	46.4	65	65	85
Rec_257	Residential	31	34.9	46.4	65	65	85
Rec_258	Residential	20.9	24.6	33.9	65	65	85
Rec_259	Residential	25.2	29	37.7	65	65	85
Rec_260	Residential	31.1	35	48.6	65	65	85
Rec_261	Residential	33.1	37.1	49.8	65	65	85
Rec_262	Residential	25.6	29.4	38.5	65	65	85
Rec_263	Residential	32.5	36.4	47.8	65	65	85
Rec_264	Residential	29.9	33.7	47.2	65	65	85
Rec_265	Residential	32.1	36	49.6	65	65	85
Rec_266	Residential	27.3	31.1	40.1	65	65	85
Rec_267	Residential	31.7	35.5	47.9	65	65	85
Rec_268	Residential	31.6	35.5	49.2	65	65	85
Rec_269	Residential	33.5	37.4	49.8	65	65	85
Rec_270	Residential	29.4	33.3	46.8	65	65	85
Rec_271	Residential	27.7	31.5	45.5	65	65	85
Rec_272	Residential	29.9	33.8	45.6	65	65	85
Rec_273	Residential	25.8	29.6	38.8	65	65	85
Rec_274	Residential	31.9	35.8	50	65	65	85
Rec_275	Residential	30.3	34.3	44.8	65	65	85
Rec_276	Residential	31.1	35.1	47.9	65	65	85
Rec_277	Residential	31.5	35.4	48.6	65	65	85
Rec_278	Residential	24	27.9	36.2	65	65	85
Rec_279	Residential	29.5	33.5	47	65	65	85
Rec_280	Residential	32.9	36.8	50	65	65	85
Rec_281	Residential	19.9	23.6	34.3	65	65	85
Rec_282	Residential	27.2	31.2	45.1	65	65	85
Rec_283	Residential	24.8	28.7	37.4	65	65	85
Rec_284	Residential	29.9	33.8	46.3	65	65	85
Rec_285	Residential	21.8	25.6	33.3	65	65	85
Rec_286	Residential	26	30	42.4	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_287	Residential	29.6	33.5	46.5	65	65	85
Rec_288	Residential	25.8	29.8	43.6	65	65	85
Rec_289	Residential	21.2	25	34.2	65	65	85
Rec_290	Residential	30.3	34.2	48.2	65	65	85
Rec_291	Residential	28	31.8	45	65	65	85
Rec_292	Residential	25.4	29.2	42.3	65	65	85
Rec_293	Residential	27.5	31.4	44.7	65	65	85
Rec_294	Residential	27.1	30.9	44	65	65	85
Rec_295	Residential	27.2	31	44	65	65	85
Rec_296	Residential	28.4	32.3	46	65	65	85
Rec_297	Residential	28.2	32.1	45.8	65	65	85
Rec_298	Residential	26.4	30.2	43.3	65	65	85
Rec_299	Residential	26.6	30.4	43.3	65	65	85
Rec_300	Residential	27.8	31.7	45.3	65	65	85
Rec_301	Residential	27.8	31.6	45.1	65	65	85
Rec_302	Residential	25.8	29.7	42.6	65	65	85
Rec_303	Residential	25.8	29.7	42.4	65	65	85
Rec_304	Residential	17.9	21.7	30.9	65	65	85
Rec_305	Residential	17	20.7	29.7	65	65	85
Rec_306	Residential	18.8	22.6	32.5	65	65	85
Rec_307	Residential	16.7	20.3	27.9	65	65	85
Rec_308	Residential	19.7	23.4	32.7	65	65	85
Rec_309	Residential	22	25.7	32.6	65	65	85
Rec_310	Residential	24.6	28.5	42.1	65	65	85
Rec_311	Residential	23.8	27.7	41.3	65	65	85
Rec_312	Residential	20.7	24.4	35.5	65	65	85
Rec_313	Residential	20.7	24.5	37.2	65	65	85
Rec_314	Residential	18.9	22.6	33.8	65	65	85
Rec_315	Residential	16.1	19.8	29.9	65	65	85
Rec_316	Residential	18.4	22.1	33.4	65	65	85
Rec_317	Residential	23	26.7	37.8	65	65	85
Rec_318	Residential	19.7	23.3	32.6	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_319	Residential	19.1	22.7	31	65	65	85
Rec_320	Residential	19.1	22.8	34.2	65	65	85
Rec_321	Residential	22.7	26.6	40.3	65	65	85
Rec_322	Residential	20.3	24	34.1	65	65	85
Rec_323	Residential	17	20.7	31.1	65	65	85
Rec_324	Residential	16	19.7	30.7	65	65	85
Rec_325	Residential	23	26.8	41.4	65	65	85
Rec_326	Residential	26.8	30.7	44.6	65	65	85
Rec_327	Residential	21.7	25.5	36.8	65	65	85
Rec_328	Residential	28.5	32.3	45.5	65	65	85
Rec_329	Residential	27.6	31.5	44.1	65	65	85
Rec_330	Residential	30.8	34.7	47.9	65	65	85
Rec_331	Residential	29.3	33.2	46.1	65	65	85
Rec_332	Residential	32.3	36.2	50.3	65	65	85
Rec_333	Residential	24.2	28.1	42.4	65	65	85
Rec_334	Residential	26.4	30.3	43.5	65	65	85
Rec_335	Residential	22.2	26	37.4	65	65	85
Rec_336	Residential	23.5	27.2	35.3	65	65	85
Rec_337	Residential	21.5	25.3	34.6	65	65	85
Rec_338	Residential	26.1	29.9	41.1	65	65	85
Rec_339	Residential	22.9	26.8	35.5	65	65	85
Rec_340	Residential	25.7	29.5	45.2	65	65	85
Rec_341	Residential	29.1	32.9	46.2	65	65	85
Rec_342	Residential	26.6	30.4	42.8	65	65	85
Rec_343	Residential	20.8	24.5	36.8	65	65	85
Rec_344	Residential	20.4	24.2	35.1	65	65	85
Rec_345	Residential	18.2	21.9	32	65	65	85
Rec_346	Residential	15.4	19.2	31	65	65	85
Rec_347	Residential	16.7	20.5	32	65	65	85
Rec_348	Residential	17.8	21.5	31	65	65	85
Rec_349	Residential	19.2	22.9	33.6	65	65	85
Rec_350	Residential	20.5	24.3	36.7	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_351	Residential	22.8	26.6	37.3	65	65	85
Rec_352	Residential	14.8	18.5	25.9	65	65	85
Rec_353	Residential	25.4	29.2	43	65	65	85
Rec_354	Residential	24.5	28.3	42.4	65	65	85
Rec_355	Residential	20.2	24	33.7	65	65	85
Rec_356	Residential	24.8	28.7	41.6	65	65	85
Rec_357	Residential	30.9	34.8	47.8	65	65	85
Rec_358	Residential	29.2	33.1	45.2	65	65	85
Rec_359	Residential	25.1	28.9	42.4	65	65	85
Rec_360	Residential	23.1	26.9	36.9	65	65	85
Rec_361	Residential	20.6	24.3	33.4	65	65	85
Rec_362	Residential	23.8	27.6	38.1	65	65	85
Rec_363	Residential	24.7	28.6	39.9	65	65	85
Rec_364	Residential	25.9	29.8	42.3	65	65	85
Rec_365	Residential	25.5	29.3	39.3	65	65	85
Rec_366	Residential	27.4	31.2	43.4	65	65	85
Rec_367	Residential	27.6	31.5	45.8	65	65	85
Rec_368	Residential	28.9	32.7	45.7	65	65	85
Rec_369	Residential	22.7	26.4	36.7	65	65	85
Rec_370	Residential	17.6	21.3	32	65	65	85
Rec_371	Residential	26.2	30.1	43.5	65	65	85
Rec_372	Residential	23.5	27.2	38	65	65	85
Rec_373	Residential	23.7	27.5	37.1	65	65	85
Rec_374	Residential	18.9	22.5	29.6	65	65	85
Rec_375	Residential	21.9	25.7	36.7	65	65	85
Rec_376	Residential	23.6	27.3	37.6	65	65	85
Rec_377	Residential	24.7	28.6	42.3	65	65	85
Rec_378	Residential	26.6	30.5	43.6	65	65	85
Rec_379	Residential	23.6	27.4	37.8	65	65	85
Rec_380	Residential	28.1	32	45.9	65	65	85
Rec_381	Residential	31.5	35.5	48.6	65	65	85
Rec_382	Residential	31	34.9	47.5	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_383	Residential	30.8	34.6	47.6	65	65	85
Rec_384	Residential	14.6	18.2	26.9	65	65	85
Rec_385	Residential	30.5	34.4	47	65	65	85
Rec_386	Residential	30.8	34.8	47.3	65	65	85
Rec_387	Residential	30.8	34.7	47.2	65	65	85
Rec_388	Residential	28.7	32.6	44.8	65	65	85
Rec_389	Residential	21.5	25.4	35.8	65	65	85
Rec_390	Residential	25.5	29.3	39.9	65	65	85
Rec_391	Residential	21.4	25.3	38	65	65	85
Rec_392	Residential	22.8	26.6	37.4	65	65	85
Rec_393	Residential	22.7	26.5	38.2	65	65	85
Rec_394	Residential	25.9	29.7	39.9	65	65	85
Rec_395	Residential	25	28.8	36.5	65	65	85
Rec_396	Residential	24.8	28.7	39.2	65	65	85
Rec_397	Residential	21.5	25.3	36.3	65	65	85
Rec_398	Residential	18	21.7	31.4	65	65	85
Rec_399	Residential	22.9	26.7	35.4	65	65	85
Rec_400	Residential	26	29.9	43.5	65	65	85
Rec_401	Residential	17.3	21	30.5	65	65	85
Rec_402	Residential	42.4	46.4	53.3	65	65	85
Rec_403	Residential	42.3	46.3	53.2	65	65	85
Rec_404	Residential	42.4	46.3	53.3	65	65	85
Rec_405	Residential	42.1	46.1	53.1	65	65	85
Rec_406	Residential	42.7	46.6	53.5	65	65	85
Rec_407	Residential	42.5	46.5	53.8	65	65	85
Rec_408	Residential	42.9	46.9	55.4	65	65	85
Rec_409	Residential	41.1	45	52.4	65	65	85
Rec_410	Residential	42	46	53	65	65	85
Rec_411	Residential	41.9	45.9	52.8	65	65	85
Rec_412	Residential	39.4	43.4	50.3	65	65	85
Rec_413	Residential	39.4	43.3	51.9	65	65	85
Rec_414	Residential	14.7	18.5	25.8	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_415	Residential	15.6	19.3	25.9	65	65	85
Rec_416	Residential	13.3	17	25.1	65	65	85
Rec_417a	Residential	12.8	16.4	23.1	65	65	85
Rec_417b	Recreational	9.6	13.3	20.7	65	65	85
Rec_418	Residential	14.8	18.4	25.5	65	65	85
Rec_419	Residential	13.8	17.4	24.2	65	65	85
Rec_420	Daycare	35.9	39.8	52	65	70	90
Rec_421	Daycare	38	41.9	54.2	65	70	90
Rec_422	Recreational	38.7	42.6	51.1	65	65	85
Rec_423	Residential	15.2	18.8	26.8	65	65	85
Rec_424	Residential	24.8	28.6	39.3	65	65	85
Rec_425	Residential	27.6	31.5	43.8	65	65	85
Rec_426b	Recreational	21.7	25.5	36.9	65	65	85
Rec_426a	Recreational	28.5	32.4	45.7	65	65	85
Rec_427	Multi-Family Residential	27.3	31.3	47.7	65	65	85
Rec_428	Multi-Family Residential	37.7	41.6	53.8	65	65	85
Rec_429	Multi-Family Residential	38.3	42.3	54.4	65	65	85
Rec_430	Multi-Family Residential	38	41.9	53.7	65	65	85
Rec_431	Multi-Family Residential	38.6	42.5	54.4	65	65	85
Rec_432	Multi-Family Residential	37.8	41.7	53.5	65	65	85
Rec_433	Multi-Family Residential	38.4	42.3	54.1	65	65	85
Rec_434	Multi-Family Residential	37.5	41.4	53.3	65	65	85
Rec_435	Multi-Family Residential	38.1	42	54	65	65	85
Rec_436	Multi-Family Residential	36.7	40.6	53	65	65	85
Rec_437	Multi-Family Residential	37.3	41.2	53.6	65	65	85

Table B-1. Scenario 1 Evening Minor League Baseball Game

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_438	Multi-Family Residential	36.8	40.7	52.9	65	65	85
Rec_439	Multi-Family Residential	37.4	41.3	53.5	65	65	85
Rec_440	Multi-Family Residential	19.9	23.6	32.7	65	65	85
Rec_441	Multi-Family Residential	17.1	20.9	31.3	65	65	85
Rec_442	Multi-Family Residential	18.1	21.8	31.7	65	65	85
Rec_443	Multi-Family Residential	18.8	22.5	32.2	65	65	85
Rec_444	Multi-Family Residential	18.3	22	31.9	65	65	85
Rec_445	Multi-Family Residential	28.6	32.4	40.7	65	65	85
Rec_446	Multi-Family Residential	29.3	33.1	42.9	65	65	85
Rec_447	Multi-Family Residential	28.9	32.8	43.7	65	65	85
Rec_448	Multi-Family Residential	29	32.9	42.2	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_1	Residential	25.7	28.9	N/A	65	65	85
Rec_2	Residential	20.6	23.8	N/A	65	65	85
Rec_3	Residential	20.9	24.1	N/A	65	65	85
Rec_4	Residential	19.8	23	N/A	65	65	85
Rec_5	Residential	21.2	24.4	N/A	65	65	85
Rec_6	Residential	15.2	18.4	N/A	65	65	85
Rec_7	Residential	17.4	20.6	N/A	65	65	85
Rec_8	Residential	19.9	23.1	N/A	65	65	85
Rec_9	Residential	19.4	22.6	N/A	65	65	85
Rec_10	Residential	17.6	20.8	N/A	65	65	85
Rec_11	Residential	18.8	22	N/A	65	65	85
Rec_12	Residential	25.8	29	N/A	65	65	85
Rec_13	Residential	26.9	30.1	N/A	65	65	85
Rec_14	Residential	26.8	30	N/A	65	65	85
Rec_15	Residential	21.2	24.4	N/A	65	65	85
Rec_16	Residential	21.9	25.1	N/A	65	65	85
Rec_17	Residential	22.1	25.3	N/A	65	65	85
Rec_18	Residential	14.9	18.1	N/A	65	65	85
Rec_19	Residential	21.1	24.3	N/A	65	65	85
Rec_20	Residential	20	23.2	N/A	65	65	85
Rec_21	Residential	20.2	23.4	N/A	65	65	85
Rec_22	Residential	20	23.2	N/A	65	65	85
Rec_23	Residential	20.8	24	N/A	65	65	85
Rec_24	Residential	19.3	22.5	N/A	65	65	85
Rec_25	Residential	16.5	19.7	N/A	65	65	85
Rec_26	Residential	26.8	30	N/A	65	65	85
Rec_27	Residential	26.3	29.5	N/A	65	65	85
Rec_28	Residential	25.7	28.9	N/A	65	65	85
Rec_29	Residential	24.9	28.1	N/A	65	65	85
Rec_30	Residential	25	28.2	N/A	65	65	85
Rec_31	Residential	26.2	29.4	N/A	65	65	85
Rec_32	Residential	26.9	30.1	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_33	Residential	22.8	26	N/A	65	65	85
Rec_34	Residential	22.7	25.9	N/A	65	65	85
Rec_35	Residential	22.4	25.6	N/A	65	65	85
Rec_36	Residential	21.8	25	N/A	65	65	85
Rec_37	Residential	21.3	24.5	N/A	65	65	85
Rec_38	Residential	20.4	23.6	N/A	65	65	85
Rec_39	Residential	18.1	21.3	N/A	65	65	85
Rec_40	Residential	18.5	21.7	N/A	65	65	85
Rec_41	Residential	17.8	21	N/A	65	65	85
Rec_42	Residential	18	21.2	N/A	65	65	85
Rec_43	Residential	19.1	22.3	N/A	65	65	85
Rec_44	Residential	19.5	22.7	N/A	65	65	85
Rec_45	Residential	19	22.2	N/A	65	65	85
Rec_46	Residential	18.2	21.4	N/A	65	65	85
Rec_47	Residential	20.7	23.9	N/A	65	65	85
Rec_48	Residential	20	23.2	N/A	65	65	85
Rec_49	Residential	17.3	20.5	N/A	65	65	85
Rec_50	Residential	17.7	20.9	N/A	65	65	85
Rec_51	Residential	18.3	21.5	N/A	65	65	85
Rec_52	Residential	18	21.2	N/A	65	65	85
Rec_53	Residential	20.3	23.5	N/A	65	65	85
Rec_54	Residential	20.4	23.6	N/A	65	65	85
Rec_55	Residential	20	23.2	N/A	65	65	85
Rec_56	Residential	20.1	23.3	N/A	65	65	85
Rec_57	Residential	22.4	25.6	N/A	65	65	85
Rec_58	Residential	21.6	24.8	N/A	65	65	85
Rec_59	Residential	21.5	24.7	N/A	65	65	85
Rec_60	Residential	21.5	24.7	N/A	65	65	85
Rec_61	Residential	20.6	23.8	N/A	65	65	85
Rec_62	Residential	21.5	24.7	N/A	65	65	85
Rec_63	Residential	18.8	22	N/A	65	65	85
Rec_64	Residential	16.6	19.8	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_65	Residential	20.5	23.7	N/A	65	65	85
Rec_66	Residential	14.3	17.5	N/A	65	65	85
Rec_67	Residential	19.4	22.6	N/A	65	65	85
Rec_68	Residential	18.9	22.1	N/A	65	65	85
Rec_69	Residential	19.8	23	N/A	65	65	85
Rec_70	Residential	19.1	22.3	N/A	65	65	85
Rec_71	Residential	18.5	21.7	N/A	65	65	85
Rec_72	Residential	18	21.2	N/A	65	65	85
Rec_73	Residential	16.6	19.8	N/A	65	65	85
Rec_74	Residential	18.4	21.6	N/A	65	65	85
Rec_75	Residential	14.7	17.9	N/A	65	65	85
Rec_76	Residential	20.8	24	N/A	65	65	85
Rec_77	Residential	21.2	24.4	N/A	65	65	85
Rec_78	Residential	17.5	20.7	N/A	65	65	85
Rec_79	Residential	23.3	26.5	N/A	65	65	85
Rec_80	Residential	22.2	25.4	N/A	65	65	85
Rec_81	Residential	22.4	25.6	N/A	65	65	85
Rec_82	Residential	23.4	26.6	N/A	65	65	85
Rec_83	Residential	23.1	26.3	N/A	65	65	85
Rec_84	Residential	21.4	24.6	N/A	65	65	85
Rec_85	Residential	19.1	22.3	N/A	65	65	85
Rec_86	Residential	19.6	22.8	N/A	65	65	85
Rec_87	Residential	19.4	22.6	N/A	65	65	85
Rec_88	Residential	19.1	22.3	N/A	65	65	85
Rec_89	Residential	18.7	21.9	N/A	65	65	85
Rec_90	Residential	17.8	21	N/A	65	65	85
Rec_91	Residential	19.3	22.5	N/A	65	65	85
Rec_92	Residential	18.9	22.1	N/A	65	65	85
Rec_93	Residential	18.3	21.5	N/A	65	65	85
Rec_94	Residential	19.3	22.5	N/A	65	65	85
Rec_95	Residential	19.8	23	N/A	65	65	85
Rec_96	Residential	19.9	23.1	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_97	Residential	19.7	22.9	N/A	65	65	85
Rec_98	Residential	16.2	19.4	N/A	65	65	85
Rec_99	Residential	19.8	23	N/A	65	65	85
Rec_100	Residential	19.9	23.1	N/A	65	65	85
Rec_101	Residential	18.8	22	N/A	65	65	85
Rec_102	Residential	20.1	23.3	N/A	65	65	85
Rec_103	Residential	18.7	21.9	N/A	65	65	85
Rec_104	Residential	19.1	22.3	N/A	65	65	85
Rec_105	Residential	19.6	22.8	N/A	65	65	85
Rec_106	Residential	18.8	22	N/A	65	65	85
Rec_107	Residential	19.7	22.9	N/A	65	65	85
Rec_108	Residential	17	20.2	N/A	65	65	85
Rec_109	Residential	19.9	23.1	N/A	65	65	85
Rec_110	Residential	17.7	20.9	N/A	65	65	85
Rec_111	Residential	15.2	18.4	N/A	65	65	85
Rec_112	Residential	15.9	19.1	N/A	65	65	85
Rec_113	Residential	16.2	19.4	N/A	65	65	85
Rec_114	Residential	16.6	19.8	N/A	65	65	85
Rec_115	Residential	17.5	20.7	N/A	65	65	85
Rec_116	Residential	15.4	18.6	N/A	65	65	85
Rec_117	Residential	17	20.2	N/A	65	65	85
Rec_118	Residential	20.3	23.5	N/A	65	65	85
Rec_119	Residential	18.4	21.6	N/A	65	65	85
Rec_120	Residential	19	22.2	N/A	65	65	85
Rec_121	Residential	16.5	19.7	N/A	65	65	85
Rec_122	Residential	18	21.2	N/A	65	65	85
Rec_123	Residential	15.8	19	N/A	65	65	85
Rec_124	Residential	18.6	21.8	N/A	65	65	85
Rec_125	Residential	16.6	19.8	N/A	65	65	85
Rec_126	Residential	17.6	20.8	N/A	65	65	85
Rec_127	Residential	18.6	21.8	N/A	65	65	85
Rec_128	Residential	15.7	18.9	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_129	Residential	14.4	17.6	N/A	65	65	85
Rec_130	Residential	17.8	21	N/A	65	65	85
Rec_131	Residential	16.2	19.4	N/A	65	65	85
Rec_132	Residential	16.8	20	N/A	65	65	85
Rec_133	Residential	16	19.2	N/A	65	65	85
Rec_134	Residential	15.1	18.3	N/A	65	65	85
Rec_135	Residential	15.9	19.1	N/A	65	65	85
Rec_136	Residential	15.3	18.5	N/A	65	65	85
Rec_137	Residential	16.5	19.7	N/A	65	65	85
Rec_138	Residential	13.6	16.8	N/A	65	65	85
Rec_139	Residential	18.3	21.5	N/A	65	65	85
Rec_140	Residential	16.1	19.3	N/A	65	65	85
Rec_141	Residential	15.5	18.7	N/A	65	65	85
Rec_142	Residential	16.4	19.6	N/A	65	65	85
Rec_143	Residential	16	19.2	N/A	65	65	85
Rec_144	Residential	15.4	18.6	N/A	65	65	85
Rec_145	Residential	14.9	18.1	N/A	65	65	85
Rec_146	Residential	15.4	18.6	N/A	65	65	85
Rec_147	Residential	16.9	20.1	N/A	65	65	85
Rec_148	Residential	16.6	19.8	N/A	65	65	85
Rec_149	Residential	16.5	19.7	N/A	65	65	85
Rec_150	Residential	13.6	16.8	N/A	65	65	85
Rec_151	Residential	15.2	18.4	N/A	65	65	85
Rec_152	Residential	15.1	18.3	N/A	65	65	85
Rec_153	Residential	15	18.2	N/A	65	65	85
Rec_154	Residential	16.2	19.4	N/A	65	65	85
Rec_155	Residential	14.2	17.4	N/A	65	65	85
Rec_156	Residential	10.6	13.8	N/A	65	65	85
Rec_157	Residential	10	13.2	N/A	65	65	85
Rec_158	Residential	10.2	13.4	N/A	65	65	85
Rec_159	Residential	15.2	18.4	N/A	65	65	85
Rec_160	Residential	13.9	17.1	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_161	Residential	15.3	18.5	N/A	65	65	85
Rec_162	Residential	15.8	19	N/A	65	65	85
Rec_163	Residential	14.9	18.1	N/A	65	65	85
Rec_164	Residential	15.4	18.6	N/A	65	65	85
Rec_165	Residential	13.3	16.5	N/A	65	65	85
Rec_166	Residential	16	19.2	N/A	65	65	85
Rec_167	Residential	14.6	17.8	N/A	65	65	85
Rec_168	Residential	16.5	19.7	N/A	65	65	85
Rec_169	Residential	14.8	18	N/A	65	65	85
Rec_170	Residential	15.3	18.5	N/A	65	65	85
Rec_171	Residential	12.8	16	N/A	65	65	85
Rec_172	Residential	15.5	18.7	N/A	65	65	85
Rec_173	Residential	11	14.2	N/A	65	65	85
Rec_174	Residential	9.9	13.1	N/A	65	65	85
Rec_175	Residential	9.6	12.8	N/A	65	65	85
Rec_176	Residential	11.1	14.3	N/A	65	65	85
Rec_177	Residential	11.8	15	N/A	65	65	85
Rec_178	Residential	14.1	17.3	N/A	65	65	85
Rec_179	Residential	14.6	17.8	N/A	65	65	85
Rec_180	Residential	16.3	19.5	N/A	65	65	85
Rec_181	Residential	13.5	16.7	N/A	65	65	85
Rec_182	Residential	14.5	17.7	N/A	65	65	85
Rec_183	Residential	15.4	18.6	N/A	65	65	85
Rec_184	Residential	17.4	20.6	N/A	65	65	85
Rec_185	Residential	16.7	19.9	N/A	65	65	85
Rec_186	Residential	17.2	20.4	N/A	65	65	85
Rec_187	Residential	16.1	19.3	N/A	65	65	85
Rec_188	Residential	13.7	16.9	N/A	65	65	85
Rec_189	Residential	6.2	9.4	N/A	65	65	85
Rec_190	Residential	6.8	10	N/A	65	65	85
Rec_191	Residential	7.9	11.1	N/A	65	65	85
Rec_192	Residential	7	10.2	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_193	Residential	6.7	9.9	N/A	65	65	85
Rec_194	Residential	20.2	23.4	N/A	65	65	85
Rec_195	Residential	19.3	22.5	N/A	65	65	85
Rec_196	Residential	20.6	23.8	N/A	65	65	85
Rec_197	Residential	20.8	24	N/A	65	65	85
Rec_198	Residential	21.4	24.6	N/A	65	65	85
Rec_199	Residential	21.1	24.3	N/A	65	65	85
Rec_200	Residential	21.3	24.5	N/A	65	65	85
Rec_201	Residential	20.8	24	N/A	65	65	85
Rec_202	Residential	21.7	24.9	N/A	65	65	85
Rec_203	Residential	22	25.2	N/A	65	65	85
Rec_204	Residential	22.2	25.4	N/A	65	65	85
Rec_205	Residential	22.3	25.5	N/A	65	65	85
Rec_206	Residential	22.3	25.5	N/A	65	65	85
Rec_207	Residential	22.2	25.4	N/A	65	65	85
Rec_208	Residential	22.5	25.7	N/A	65	65	85
Rec_209	Residential	22.7	25.9	N/A	65	65	85
Rec_210	Residential	20.7	23.9	N/A	65	65	85
Rec_211	Residential	23	26.2	N/A	65	65	85
Rec_212	Residential	23.5	26.7	N/A	65	65	85
Rec_213	Residential	26.2	29.4	N/A	65	65	85
Rec_214	Residential	26.1	29.3	N/A	65	65	85
Rec_215	Residential	26	29.2	N/A	65	65	85
Rec_216	Residential	25.6	28.8	N/A	65	65	85
Rec_217	Residential	25.3	28.5	N/A	65	65	85
Rec_218	Residential	25	28.2	N/A	65	65	85
Rec_219	Residential	24.4	27.6	N/A	65	65	85
Rec_220	Residential	24	27.2	N/A	65	65	85
Rec_221	Residential	26.9	30.1	N/A	65	65	85
Rec_222	Residential	27.5	30.7	N/A	65	65	85
Rec_223	Residential	29.9	33.1	N/A	65	65	85
Rec_224	Residential	29.8	33	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_225	Residential	28.1	31.3	N/A	65	65	85
Rec_226	Residential	4.6	7.8	N/A	65	65	85
Rec_227	Residential	14.7	17.9	N/A	65	65	85
Rec_228	Residential	18.4	21.6	N/A	65	65	85
Rec_229	Residential	14.8	18	N/A	65	65	85
Rec_230	Residential	20	23.2	N/A	65	65	85
Rec_231	Residential	15.4	18.6	N/A	65	65	85
Rec_232	Residential	17.2	20.4	N/A	65	65	85
Rec_233	Residential	18.5	21.7	N/A	65	65	85
Rec_234	Residential	16.2	19.4	N/A	65	65	85
Rec_235	Residential	14.6	17.8	N/A	65	65	85
Rec_236	Residential	19.7	22.9	N/A	65	65	85
Rec_237	Residential	18.2	21.4	N/A	65	65	85
Rec_238	Residential	15.2	18.4	N/A	65	65	85
Rec_239	Residential	20.1	23.3	N/A	65	65	85
Rec_240	Residential	23.9	27.1	N/A	65	65	85
Rec_241	Residential	19.8	23	N/A	65	65	85
Rec_242	Residential	23.1	26.3	N/A	65	65	85
Rec_243	Residential	25.7	28.9	N/A	65	65	85
Rec_244	Residential	23	26.2	N/A	65	65	85
Rec_245	Residential	17.6	20.8	N/A	65	65	85
Rec_246	Residential	16.9	20.1	N/A	65	65	85
Rec_247	Residential	21.5	24.7	N/A	65	65	85
Rec_248	Residential	23.7	26.9	N/A	65	65	85
Rec_249	Residential	26.1	29.3	N/A	65	65	85
Rec_250	Residential	22.8	26	N/A	65	65	85
Rec_251	Residential	14.4	17.6	N/A	65	65	85
Rec_252	Residential	10.5	13.7	N/A	65	65	85
Rec_253	Residential	20.1	23.3	N/A	65	65	85
Rec_254	Residential	19.6	22.8	N/A	65	65	85
Rec_255	Residential	18.9	22.1	N/A	65	65	85
Rec_256	Residential	20.8	24	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_257	Residential	22.1	25.3	N/A	65	65	85
Rec_258	Residential	14.4	17.6	N/A	65	65	85
Rec_259	Residential	19.6	22.8	N/A	65	65	85
Rec_260	Residential	19.1	22.3	N/A	65	65	85
Rec_261	Residential	20.3	23.5	N/A	65	65	85
Rec_262	Residential	16.4	19.6	N/A	65	65	85
Rec_263	Residential	22.7	25.9	N/A	65	65	85
Rec_264	Residential	20.3	23.5	N/A	65	65	85
Rec_265	Residential	19.6	22.8	N/A	65	65	85
Rec_266	Residential	18.3	21.5	N/A	65	65	85
Rec_267	Residential	21.3	24.5	N/A	65	65	85
Rec_268	Residential	20.4	23.6	N/A	65	65	85
Rec_269	Residential	23.5	26.7	N/A	65	65	85
Rec_270	Residential	17.4	20.6	N/A	65	65	85
Rec_271	Residential	17.3	20.5	N/A	65	65	85
Rec_272	Residential	19.2	22.4	N/A	65	65	85
Rec_273	Residential	17.3	20.5	N/A	65	65	85
Rec_274	Residential	17.9	21.1	N/A	65	65	85
Rec_275	Residential	19.1	22.3	N/A	65	65	85
Rec_276	Residential	16.4	19.6	N/A	65	65	85
Rec_277	Residential	18.5	21.7	N/A	65	65	85
Rec_278	Residential	15.8	19	N/A	65	65	85
Rec_279	Residential	16.7	19.9	N/A	65	65	85
Rec_280	Residential	18.5	21.7	N/A	65	65	85
Rec_281	Residential	11.6	14.8	N/A	65	65	85
Rec_282	Residential	12.3	15.5	N/A	65	65	85
Rec_283	Residential	15.3	18.5	N/A	65	65	85
Rec_284	Residential	17.3	20.5	N/A	65	65	85
Rec_285	Residential	14.3	17.5	N/A	65	65	85
Rec_286	Residential	15.5	18.7	N/A	65	65	85
Rec_287	Residential	15.7	18.9	N/A	65	65	85
Rec_288	Residential	11.5	14.7	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_289	Residential	14.2	17.4	N/A	65	65	85
Rec_290	Residential	15.5	18.7	N/A	65	65	85
Rec_291	Residential	14.5	17.7	N/A	65	65	85
Rec_292	Residential	15	18.2	N/A	65	65	85
Rec_293	Residential	14.4	17.6	N/A	65	65	85
Rec_294	Residential	13.4	16.6	N/A	65	65	85
Rec_295	Residential	15	18.2	N/A	65	65	85
Rec_296	Residential	13.7	16.9	N/A	65	65	85
Rec_297	Residential	13.6	16.8	N/A	65	65	85
Rec_298	Residential	12.4	15.6	N/A	65	65	85
Rec_299	Residential	14.1	17.3	N/A	65	65	85
Rec_300	Residential	13	16.2	N/A	65	65	85
Rec_301	Residential	14	17.2	N/A	65	65	85
Rec_302	Residential	11.6	14.8	N/A	65	65	85
Rec_303	Residential	12.3	15.5	N/A	65	65	85
Rec_304	Residential	9	12.2	N/A	65	65	85
Rec_305	Residential	10.2	13.4	N/A	65	65	85
Rec_306	Residential	11.8	15	N/A	65	65	85
Rec_307	Residential	8.8	12	N/A	65	65	85
Rec_308	Residential	10.7	13.9	N/A	65	65	85
Rec_309	Residential	15.1	18.3	N/A	65	65	85
Rec_310	Residential	15	18.2	N/A	65	65	85
Rec_311	Residential	13	16.2	N/A	65	65	85
Rec_312	Residential	12	15.2	N/A	65	65	85
Rec_313	Residential	11.4	14.6	N/A	65	65	85
Rec_314	Residential	9.6	12.8	N/A	65	65	85
Rec_315	Residential	7.6	10.8	N/A	65	65	85
Rec_316	Residential	9.3	12.5	N/A	65	65	85
Rec_317	Residential	13.5	16.7	N/A	65	65	85
Rec_318	Residential	10.5	13.7	N/A	65	65	85
Rec_319	Residential	8.2	11.4	N/A	65	65	85
Rec_320	Residential	8.8	12	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_321	Residential	9.2	12.4	N/A	65	65	85
Rec_322	Residential	13.9	17.1	N/A	65	65	85
Rec_323	Residential	9.7	12.9	N/A	65	65	85
Rec_324	Residential	8.3	11.5	N/A	65	65	85
Rec_325	Residential	13.5	16.7	N/A	65	65	85
Rec_326	Residential	15.4	18.6	N/A	65	65	85
Rec_327	Residential	14.9	18.1	N/A	65	65	85
Rec_328	Residential	16.3	19.5	N/A	65	65	85
Rec_329	Residential	17	20.2	N/A	65	65	85
Rec_330	Residential	18.3	21.5	N/A	65	65	85
Rec_331	Residential	17.1	20.3	N/A	65	65	85
Rec_332	Residential	18.1	21.3	N/A	65	65	85
Rec_333	Residential	11.3	14.5	N/A	65	65	85
Rec_334	Residential	14.5	17.7	N/A	65	65	85
Rec_335	Residential	14.3	17.5	N/A	65	65	85
Rec_336	Residential	16.7	19.9	N/A	65	65	85
Rec_337	Residential	12.5	15.7	N/A	65	65	85
Rec_338	Residential	17.1	20.3	N/A	65	65	85
Rec_339	Residential	16.2	19.4	N/A	65	65	85
Rec_340	Residential	15.6	18.8	N/A	65	65	85
Rec_341	Residential	17.1	20.3	N/A	65	65	85
Rec_342	Residential	17.6	20.8	N/A	65	65	85
Rec_343	Residential	12.5	15.7	N/A	65	65	85
Rec_344	Residential	13	16.2	N/A	65	65	85
Rec_345	Residential	11.7	14.9	N/A	65	65	85
Rec_346	Residential	9.8	13	N/A	65	65	85
Rec_347	Residential	10.6	13.8	N/A	65	65	85
Rec_348	Residential	8.4	11.6	N/A	65	65	85
Rec_349	Residential	11.7	14.9	N/A	65	65	85
Rec_350	Residential	11.6	14.8	N/A	65	65	85
Rec_351	Residential	15.4	18.6	N/A	65	65	85
Rec_352	Residential	9	12.2	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_353	Residential	11.3	14.5	N/A	65	65	85
Rec_354	Residential	10.3	13.5	N/A	65	65	85
Rec_355	Residential	14.6	17.8	N/A	65	65	85
Rec_356	Residential	15.1	18.3	N/A	65	65	85
Rec_357	Residential	19.1	22.3	N/A	65	65	85
Rec_358	Residential	18	21.2	N/A	65	65	85
Rec_359	Residential	17.4	20.6	N/A	65	65	85
Rec_360	Residential	15.3	18.5	N/A	65	65	85
Rec_361	Residential	12.8	16	N/A	65	65	85
Rec_362	Residential	15.5	18.7	N/A	65	65	85
Rec_363	Residential	17.2	20.4	N/A	65	65	85
Rec_364	Residential	18.5	21.7	N/A	65	65	85
Rec_365	Residential	17.9	21.1	N/A	65	65	85
Rec_366	Residential	17.4	20.6	N/A	65	65	85
Rec_367	Residential	14.4	17.6	N/A	65	65	85
Rec_368	Residential	16.2	19.4	N/A	65	65	85
Rec_369	Residential	16.1	19.3	N/A	65	65	85
Rec_370	Residential	9.9	13.1	N/A	65	65	85
Rec_371	Residential	15.3	18.5	N/A	65	65	85
Rec_372	Residential	15.3	18.5	N/A	65	65	85
Rec_373	Residential	16.6	19.8	N/A	65	65	85
Rec_374	Residential	11.6	14.8	N/A	65	65	85
Rec_375	Residential	13.2	16.4	N/A	65	65	85
Rec_376	Residential	15.4	18.6	N/A	65	65	85
Rec_377	Residential	14.1	17.3	N/A	65	65	85
Rec_378	Residential	16.3	19.5	N/A	65	65	85
Rec_379	Residential	15	18.2	N/A	65	65	85
Rec_380	Residential	15.4	18.6	N/A	65	65	85
Rec_381	Residential	17.7	20.9	N/A	65	65	85
Rec_382	Residential	18.9	22.1	N/A	65	65	85
Rec_383	Residential	18.6	21.8	N/A	65	65	85
Rec_384	Residential	6.6	9.8	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_385	Residential	18.5	21.7	N/A	65	65	85
Rec_386	Residential	17.4	20.6	N/A	65	65	85
Rec_387	Residential	19.1	22.3	N/A	65	65	85
Rec_388	Residential	17	20.2	N/A	65	65	85
Rec_389	Residential	14	17.2	N/A	65	65	85
Rec_390	Residential	16.5	19.7	N/A	65	65	85
Rec_391	Residential	9.9	13.1	N/A	65	65	85
Rec_392	Residential	13.9	17.1	N/A	65	65	85
Rec_393	Residential	14	17.2	N/A	65	65	85
Rec_394	Residential	16.8	20	N/A	65	65	85
Rec_395	Residential	15.4	18.6	N/A	65	65	85
Rec_396	Residential	16.2	19.4	N/A	65	65	85
Rec_397	Residential	14.2	17.4	N/A	65	65	85
Rec_398	Residential	9.6	12.8	N/A	65	65	85
Rec_399	Residential	15.5	18.7	N/A	65	65	85
Rec_400	Residential	14.3	17.5	N/A	65	65	85
Rec_401	Residential	8.2	11.4	N/A	65	65	85
Rec_402	Residential	24.2	27.4	N/A	65	65	85
Rec_403	Residential	24.3	27.5	N/A	65	65	85
Rec_404	Residential	24.5	27.7	N/A	65	65	85
Rec_405	Residential	23.9	27.1	N/A	65	65	85
Rec_406	Residential	26.8	30	N/A	65	65	85
Rec_407	Residential	27	30.2	N/A	65	65	85
Rec_408	Residential	25.7	28.9	N/A	65	65	85
Rec_409	Residential	24.2	27.4	N/A	65	65	85
Rec_410	Residential	25.9	29.1	N/A	65	65	85
Rec_411	Residential	26	29.2	N/A	65	65	85
Rec_412	Residential	24	27.2	N/A	65	65	85
Rec_413	Residential	26.6	29.8	N/A	65	65	85
Rec_414	Residential	4.8	8	N/A	65	65	85
Rec_415	Residential	4.2	7.4	N/A	65	65	85
Rec_416	Residential	3.8	7	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_417a	Residential	2.2	5.4	N/A	65	65	85
Rec_417b	Recreational	1.9	5.1	N/A	65	65	85
Rec_418	Residential	3.1	6.3	N/A	65	65	85
Rec_419	Residential	3.1	6.3	N/A	65	65	85
Rec_420	Daycare	24.1	27.3	N/A	65	70	90
Rec_421	Daycare	26.2	29.4	N/A	65	70	90
Rec_422	Recreational	29.3	32.5	N/A	65	65	85
Rec_423	Residential	4.2	7.4	N/A	65	65	85
Rec_424	Residential	10.8	14	N/A	65	65	85
Rec_425	Residential	12.6	15.8	N/A	65	65	85
Rec_426b	Recreational	13.4	16.6	N/A	65	65	85
Rec_426a	Recreational	15.4	18.6	N/A	65	65	85
Rec_427	Multi-Family Residential	16.4	19.6	N/A	65	65	85
Rec_428	Multi-Family Residential	27.1	30.3	N/A	65	65	85
Rec_429	Multi-Family Residential	32.1	35.3	N/A	65	65	85
Rec_430	Multi-Family Residential	27.2	30.4	N/A	65	65	85
Rec_431	Multi-Family Residential	32.2	35.4	N/A	65	65	85
Rec_432	Multi-Family Residential	27	30.2	N/A	65	65	85
Rec_433	Multi-Family Residential	32	35.2	N/A	65	65	85
Rec_434	Multi-Family Residential	27	30.2	N/A	65	65	85
Rec_435	Multi-Family Residential	31.9	35.1	N/A	65	65	85
Rec_436	Multi-Family Residential	25.3	28.5	N/A	65	65	85
Rec_437	Multi-Family Residential	30.1	33.3	N/A	65	65	85
Rec_438	Multi-Family Residential	26.3	29.5	N/A	65	65	85

Table B-2. Scenario 2 Concerts

Receptor ID	Land Use	CNEL (dBA)	Leq,1hr (dBA)	Lmax (dBA)[1]	State of CA Exterior Noise Standards (dBA)	Ontario Municipal Code Exterior Noise Standards (dBA)	Lmax Limit
Rec_439	Multi-Family Residential	31.2	34.4	N/A	65	65	85
Rec_440	Multi-Family Residential	12.5	15.7	N/A	65	65	85
Rec_441	Multi-Family Residential	10.8	14	N/A	65	65	85
Rec_442	Multi-Family Residential	10.9	14.1	N/A	65	65	85
Rec_443	Multi-Family Residential	11.7	14.9	N/A	65	65	85
Rec_444	Multi-Family Residential	11.1	14.3	N/A	65	65	85
Rec_445	Multi-Family Residential	23.1	26.3	N/A	65	65	85
Rec_446	Multi-Family Residential	22.5	25.7	N/A	65	65	85
Rec_447	Multi-Family Residential	23.2	26.4	N/A	65	65	85
Rec_448	Multi-Family Residential	22.7	25.9	N/A	65	65	85

Notes:
[1] SoundPLAN source library does not include Lmax source levels; therefore, there is no Lmax prediction for the concert scenario.