

APPENDIX J

Noise and Vibration Technical Appendix

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Technical Appendix for Noise and Vibration

670 Mesquit Project

Draft EIR

Technical Appendix for Noise and Vibration July 2021

- 1. Methodology**
- 2. Noise and Vibration Worksheets**

670 Mesquit Project

1. Noise and Vibration Methodology

1. Introduction

ESA conducted a comprehensive noise and vibration impact analysis and report for the 670 Mesquit Project (Project). Noise and vibration associated with construction and operation of the Project were quantified. This technical report describes the methodology used to measure the existing site's ambient noise levels and estimate noise and vibration from construction and operations of the Project.

2. Noise and Vibration Methodology

This section describes the methodology used to measure the existing site's noise environment and calculate noise and vibration resulting from Project construction and operational activities and to evaluate the associated impacts. Construction activities would generate noise from equipment usage and truck hauling. Long-term operational activities would generate emissions through vehicle trips (e.g. tenants, employees, visitors, waste disposal, deliveries), stationary sources (e.g. generators, heating, ventilation, and cooling) and outdoor gathering areas used for special events. The methodologies described below were applied similarly to the Project and Project with Deck scenarios.

a) Noise

(1) Noise Attenuation

When noise propagates over a distance, the noise level reduces with distance depending on the type of noise source and the propagation path. Noise from a localized source (i.e., point source) propagates uniformly outward in a spherical pattern, referred to as "spherical spreading." Stationary point sources of noise, including stationary mobile sources such as idling vehicles, attenuate (i.e., reduce) at a rate between 6 dBA for acoustically "hard" sites and 7.5 dBA for "soft" sites for each doubling of distance from the reference measurement, as their energy is continuously spread out over a spherical surface (e.g., for hard surfaces, 80 dBA at 50 feet attenuates to 74 dBA at 100 feet, 68 dBA at 200 feet, etc.). Hard sites are those with a reflective surface between the source and the receiver, such as asphalt or concrete surfaces or smooth bodies of water. No excess ground attenuation is assumed for hard sites, and the reduction in noise levels with distance (drop-off rate) is simply the geometric spreading of the noise from the source. Soft sites have an absorptive ground surface, such as soft dirt, grass, or scattered

bushes and trees, which in addition to geometric spreading, provides an excess ground attenuation value of 1.5 dBA (per doubling distance).¹

Roadways and highways consist of several localized noise sources on a defined path, and hence are treated as “line” sources, which approximate the effect of several point sources. Noise from a line source propagates over a cylindrical surface, often referred to as “cylindrical spreading.” Line sources (e.g., traffic noise from vehicles) attenuate at a rate between 3 dBA for hard sites and 4.5 dBA for soft sites for each doubling of distance from the reference measurement.² Therefore, noise due to a line source attenuates less with distance than that of a point source with increased distance.

Additionally, receptors located downwind from a noise source can be exposed to increased noise levels relative to calm conditions, whereas locations upwind can have lowered noise levels. Atmospheric temperature inversion (i.e., increasing temperature with elevation) can increase sound levels at long distances (e.g., more than 500 feet). Other factors such as air temperature, humidity, and turbulence can also have significant effects on noise levels.³

(2) Foundations of Vibration

Vibration can be interpreted as energy transmitted in waves through the ground or man-made structures, which generally dissipate with distance from the vibration source. Because energy is lost during the transfer of energy from one particle to another, vibration becomes less perceptible with increasing distance from the source.

As described in the Federal Transit Administration’s (FTA) Transit Noise and Vibration Impact Assessment, common sources of groundborne vibration are trains, heavy trucks traveling on rough roads, and construction activities, such as blasting, pile-driving, and operation of heavy earth-moving equipment.⁴ The effects of groundborne vibration include movement of the building floors, rattling of windows, shaking of items on shelves or hanging on walls, and rumbling sounds. In extreme cases, the vibration can cause damage to buildings. Potential for building damage due to construction vibration is not a factor for most land use projects, although potential for damage is substantially increased when construction involves blasting and pile-driving and/or when construction is immediately adjacent to a fragile historic resource. Annoyance from vibration often occurs when the vibration levels exceed the threshold of perception by only a small margin. A vibration level that causes annoyance will be well below the damage threshold for normal buildings.

There are several different methods that are used to quantify vibration. The peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal in inches per second (in/sec), and is most frequently used to describe vibration impacts to

¹ Caltrans, *Technical Noise Supplement (TeNS)*, Section 2.1.4.2, September 2013.

² Caltrans, *Technical Noise Supplement (TeNS)*, Section 2.1.4.1, September 2013.

³ Caltrans, *Technical Noise Supplement (TeNS)*, Section 2.1.4.3 September 2013.

⁴ Caltrans, *Transportation and Construction Vibration Guidance Manual*, September 2013, p. 1.

buildings. The root mean square (RMS) amplitude is defined as the average of the squared amplitude of the signal and is most frequently used to describe the effect of vibration on the human body. Decibel notation (VdB) is commonly used to measure RMS. The relationship of PPV to RMS velocity is expressed in terms of the “crest factor,” defined as the ratio of the PPV amplitude to the RMS amplitude. PPV is typically a factor of 1.7 to 6 times greater than RMS vibration velocity.⁵ The decibel notation VdB acts to compress the range of numbers required to describe vibration. Typically, groundborne vibration generated by man-made activities attenuates rapidly with distance from the source of the vibration. Sensitive receptors for vibration include buildings where vibration would interfere with operations within the building or cause damage (especially historic buildings and older non-engineered timber and masonry structures), locations where people sleep, and locations with vibration sensitive equipment.⁶

Groundborne noise specifically refers to the rumbling noise emanating from the motion of building room surfaces due to the vibration of floors and walls; it is perceptible only inside buildings.⁷ The relationship between groundborne vibration and groundborne noise depends on the frequency content of the vibration and the acoustical absorption characteristics of the receiving room. For typical buildings, groundborne vibration that causes low frequency noise (i.e., the vibration spectrum peak is less than 30 Hz) results in a groundborne noise level that is approximately 50 decibels lower than the velocity level. For groundborne vibration that causes mid-frequency noise (i.e., the vibration spectrum peak is between 30 and 60 Hz), the groundborne noise level will be approximately 35 decibels lower than the velocity level. For groundborne vibration that causes high-frequency noise (i.e., the vibration spectrum peak is greater than 60 Hz), the groundborne noise level will be approximately 20 decibels lower than the velocity level.⁸ Therefore, for typical buildings, the groundborne noise decibel level is lower than the groundborne vibration velocity level at low frequencies. Groundborne noise is usually only perceptible inside buildings and is typically only an issue with subway or tunnel operations where there is no airborne noise path or for buildings with substantial sound insulation such as a recording studio.⁹

(3) Existing Noise and Vibration Levels

(a) *Noise-Sensitive Receptor Locations*

Some land uses are considered more sensitive to noise than others due to the types of activities typically involved at the receptor location, and the effect that noise can have on

⁵ FTA, Transit Noise and Vibration Impact Assessment Manual, 2018, Section 5.1.

⁶ FTA, Transit Noise and Vibration Impact Assessment Manual, 2018, Sections 6.1, 6.2, and 6.3.

⁷ Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual. September 2018, p. 112.

⁸ Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual. September 2018, p. 146.

⁹ Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual. September 2018, p. 118.

those activities and the persons engaged in them. The City of Los Angeles CEQA Thresholds Guide states that residences, schools, motels and hotels, libraries, religious institutions, hospitals, nursing homes, and parks are generally more sensitive to noise than commercial and industrial land uses.¹⁰

Existing noise-sensitive uses, or receptors, within 500 feet of the Project Site (670 Mesquit) include the following:

- R1: Multi-family residential uses to the west of the Project Site at 2101 E. 7th Street.
- R2: Multi-family residential uses to the south of the Project Site at 2135 E 7th Place.
- R3: AMP Lofts, one block west of the Project Site, bound by Santa Fe Avenue on the east, Imperial Street on the West, Jesse Street to the north, and 7th Street to the south.

Future Sensitive Receptor Locations (Sensitive Receptors Not Built Yet):

- R4: 6th Street Park, Arts, River and Connectivity (PARC), is located under and adjacent to the new 6th Street Viaduct and adjacent to the Project Site to the north.

The Project Site is bounded by the Los Angeles River to the east followed by commercial and industrial uses. There are no noise-sensitive uses to the east that are located within 500 feet of the Project Site. All other noise-sensitive uses regulated by the City are located at greater distances from the Project Site and would experience lower noise levels from potential sources of noise on the Project Site due to distance loss. There are no schools within 500 feet of the Project Site.

(b) Vibration-Sensitive Receptor Locations

Typically, groundborne vibration generated by man-made activities (i.e., rail and roadway traffic, operation of mechanical equipment and typical construction equipment) diminishes rapidly with distance from the vibration source. Construction activities, such as impact pile driving, would have the greatest effect on vibration sensitive land uses. Energy is lost during the transfer of energy from one particle to another and as a result, vibration becomes less perceptible with increasing distance from the source. Therefore, with respect to potential structural damage, structures in close proximity (adjacent) to the Project Site are considered vibration sensitive. As shown in Table IV.I-1, the structural category/construction type (i.e., reinforced-concrete, engineered concrete, non-engineered timber, and building susceptible to damage) determines the vibration damage criteria for a specific building/structure.¹¹

With respect to human annoyance, sensitive land uses include buildings where use of vibration-sensitive equipment is used (e.g., hospitals, research, and manufacturing),

¹⁰ City of Los Angeles, L.A. CEQA Thresholds Guide, page I.1-3, 2006.

¹¹ Where the structural category/type of a vibration-sensitive receptor is unclear, the analysis herein utilizes a conservative assumption. For example, although structures where industrial processes take place would generally be constructed of concrete, the threshold for non-engineered timber and masonry has been applied due to the uncertainty of building construction.

residential land uses and buildings where people normally sleep, schools, churches, and doctor's offices. Industrial or commercial (including office) uses are not considered vibration-sensitive. Therefore, while all adjacent buildings have been considered vibration-sensitive for structural damage, industrial and commercial uses have not been considered for human annoyance. All of the off-site sensitive receptors listed above in Subsection IV.I.2(c)(1), *Noise-Sensitive Receptor Locations*, were analyzed for impacts related to vibration-related human annoyance.

Existing and future vibration-sensitive uses include the following:

- V1: Multi-family residential uses to the west of the Project site at 2101 E. 7th Street, which is a historic structure and considered a Category IV (buildings extremely susceptible to vibration damage) structure (see Table IV.I-1) with respect to structural damage and a vibration-sensitive receptor with respect to human annoyance.
- V2: Multi-family residential uses to the south of the Project Site at 2135 E 7th Place, assumed to be a Category I (reinforced-concrete, steel, or timber) structure, but is considered a Category III (non-engineered timber and masonry) structure for the purposes of providing a conservative analysis with respect to structural damage and a vibration-sensitive receptor with respect to human annoyance.
- V3: AMP Lofts is a vibration receptor located one block west of the Project Site, bound by Santa Fe Avenue on the east, Imperial Street on the West, Jesse Street to the north, and 7th Street to the south. Because this use consists of newly constructed structures and foundations, this receptor would be a Category I (reinforced-concrete, steel, or timber) structure with respect to structural damage and a vibration-sensitive receptor with respect to human annoyance.
- V4: Industrial building located at 640 Santa Fe Avenue, assumed to be a Category I (reinforced-concrete, steel, or timber) structure, but is considered a Category III (non-engineered timber and masonry) structure for the purposes of providing a conservative analysis with respect to structural damage and not considered vibration-sensitive with respect to human annoyance.
- V5: Industrial building located at 1580 Jesse Street, assumed to be a Category I (reinforced-concrete, steel, or timber) structure, but is considered a Category III (non-engineered timber and masonry) structure for the purposes of providing a conservative analysis with respect to structural damage and not considered vibration-sensitive with respect to human annoyance.
- V6: The 7th Street Bridge, which is a Category I (reinforced-concrete, steel, or timber) structure with respect to structural damage and not considered vibration-sensitive with respect to human annoyance.

(c) *Ambient Noise Levels*

The predominant existing noise source near the Project Site is roadway noise from 6th Street to the north, 7th Street to the south, and noise from the freight and passenger rail lines and rail yards to the east ("Railway Property"). Other noise sources include general

residential and commercial-related activities associated with refuse service activities and the loading and unloading activities as well as noise related to surrounding industrial operations such as loading and unloading activities, stationary mechanical equipment (e.g., generators, fans, condenser units, etc.), and operation of on-site equipment (e.g., forklifts).

To establish conservative baseline for ambient noise levels, ambient noise measurements were conducted at eight locations corresponding to the following sensitive receptors in the Project vicinity:

- M1: Represents the existing noise environment at multi-family residential uses immediately to the west of the Project Site at 2101 E. 7th Street (Receptor R1) and the Project Site.
- M2: Represents the existing noise environment at the western Project Site boundary along Jesse Street. This measurement represents the baseline noise environment on the Project Site itself and does not represent the ambient noise levels at any noise-sensitive receptors.
- M3: Represents the existing noise environment at the western Project Site boundary along Mesquit Street and is also used to approximate the existing noise environment at the future PARC site (Receptor R4). Noise measurements at the future PARC site would not be representative as the Sixth Street Viaduct is currently under construction and measurements would reflect construction noise as opposed to the future condition, which will include traffic noise and noise from nearby uses.¹²
- M4: Represents the existing noise environment at the eastern Project Site boundary along the Railway Property. This measurement represents the baseline noise environment on the Project Site itself and does not represent the ambient noise levels at any noise-sensitive receptors.
- M5: Represents the existing noise environment at multi-family residential uses approximately 100 feet to the south of the Project Site at 2135 E. 7th Place (Receptor R2).
- M6: Represents the existing noise environment at a multi-family residential use (AMP Lofts) (Receptor R3), approximately 200 feet to the west of the Project Site, bound by

¹² Noise measured at location M3 is considered generally representative of noise levels at the location of the future PARC site (Receptor R4). It is assumed that baseline noise levels at the future PARC site, if they could be taken, would be higher due to closer proximity to traffic noise along 6th Street as well as greater traffic volumes along Sixth Street when compared to Mesquit Street. Because the Sixth Street Viaduct is currently undergoing construction, an ambient measure at that location would capture elevated noise levels from the use of heavy-duty construction equipment. In addition, measurement M3 supports a conservative analysis as existing traffic noise at M3 is expected to be somewhat lower than baseline noise levels would be at the future PARC site along 6th Street (if they could be accurately taken at that location). With a lower baseline ambient noise level from traffic on Mesquit compared to the normal flow of traffic on 6th Street, the threshold of significance is set at a lower level. The lower the baseline ambient noise levels, the greater the estimated increase in Project noise would be relative to thresholds of significance.

Santa Fe Avenue on the east, Imperial Street on the West, Jesse Street to the north, and 7th Street to the south.

Weekday daytime (between 7:00 A.M. and 10:00 P.M.) and nighttime (between 10:00 P.M. and 7:00 A.M.) noise measurements were conducted to characterize the existing noise environment at the Project Site and at representative off-site sensitive receptor locations. The City's standard for noise analysis is to compare Project-related noise levels to ambient noise measurements at representative sensitive receptor locations. Long-term noise measurements provide a larger data set from which to establish ambient conditions and would not be more or less accurate or conservative than short-term noise measurements. Where long-term noise measurements are taken, noise levels during the City's designated daytime and nighttime hours have been averaged to establish ambient daytime and nighttime noise level at that particular location. Because the Project's impacts are determined based on Project-related increases to baseline noise levels, noise measurements are generally taken outside of the peak traffic window to ensure that baseline levels do not represent elevated traffic noise and, accordingly, provide a more conservative impact analysis.¹³ The measured noise levels are provided in **Table 1, Summary of Ambient Noise Measurements**.

TABLE 1
SUMMARY OF AMBIENT NOISE MEASUREMENTS

		Measured Ambient Noise Levels ^a (dBA L _{eq})					
Measurement Location	Receptor	Weekday		Saturday		Sunday	
		Daytime Hours (7:00 A.M. – 10:00 P.M.)	Nighttime Hours (10:00 P.M. – 7:00 A.M.)	Daytime Hours (7:00 A.M. – 10:00 P.M.)	Nighttime Hours (10:00 P.M. – 7:00 A.M.)	Daytime Hours (7:00 A.M. – 10:00 P.M.)	Nighttime Hours (10:00 P.M. – 7:00 A.M.)
M1	R1	70.7	67.5	71.3	72.6	75.6	69.1
M2	N/A	70.1	64.5	68.1	49.9	58.6	67.9
M3	R4	66.6	63.8	64.8	47.1	65.9	63.9
M4	N/A	69.1	60.7	60.4	60.4	61.2	60.6
M5	R2	76.3	71.5	74.7	74.3	73.7	70.2
M6	R3	76.6	63.5	68.6	71.3	65.1	63.3

a Noise levels for locations M1 through M4 were taken over 24 hours (long-term) from secured locations on the Project Site and are based on daytime average noise levels from 7:00 A.M. to 10:00 P.M. and nighttime average noise levels from 10:00 P.M. to 7:00 A.M. Noise levels for locations M5 and M6 are based on short-term (15-minute) measurements. Both long-term and short-term ambient noise measurements appropriately establish baseline noise levels for the impact analysis.

N/A Measurement location does not represent any noise-sensitive receptors. Measurements at these locations represent the noise conditions at the Project Site.

SOURCE: ESA, 2021.

¹³ Project impacts are determined based on increases to the measured ambient noise level. If the documented ambient noise level is elevated by peak traffic noise, the impact threshold for the Project would also be elevated.

(d) Existing Roadway Noise Levels

Existing roadway CNEL noise levels were calculated for roadway segments located within the study area, as defined by the MOU with LADOT and were based on vehicular turning movement data at intersections identified for traffic impact analysis by the City.¹⁴ The existing cold storage warehouse facility on the Project Site generates a greater number of truck trips compared to passenger vehicle trips. According to data provided by the current operator of the existing warehouse use, and as included as part of Appendix J, existing daily traffic from on-site uses consists of 28 percent passenger vehicles, 37 percent medium-duty trucks, and 35 percent heavy-duty trucks. Therefore, the traffic volumes provided by the TA for existing uses (39 peak hour trips) have been adjusted in the traffic noise model for existing conditions to account for the relatively higher proportion of trips generated by trucks from the existing warehouse use that travel along roadway segments in the immediate vicinity of the Project Site in order to reflect the higher traffic-related noise levels associated with trucks as compared to passenger vehicles.¹⁵ The existing cold storage warehouse facility on the Project Site identified the route taken by existing trucks. The specific roadway segments that account for the relatively higher proportion of trips generated by trucks from the existing warehouse use and the specific roadway segments that have been adjusted include Mesquit Street between 6th Street and 7th Street, 6th Street between Mesquit Street and Santa Fe Avenue, Jesse Street between Mesquit Street and Santa Fe Avenue, Santa Fe Avenue north of 6th Street, Santa Fe Avenue between 6th Street and Jesse Street, and Santa Fe Avenue south of Jesse Street. While trucks from the existing warehouse use would continue to travel along other roadway segments beyond those listed above, the traffic noise model for existing conditions does not adjust for the relatively higher proportion of trips generated by trucks on roadway segments further away from the Project Site since the proportion of trucks on these further segments would tend to decline and approach typical vehicle fleet mix conditions with increasing distance from the Project Site. Thus, limiting this adjustment to the roadway segments in the immediate vicinity of the Project Site is a conservative approach as it would ensure that baseline traffic noise levels are not overestimated.

¹⁴ Fehr & Peers, Transportation Assessment for the 670 Mesquit Project, April 2021, Appendix E. Provided in Appendix M-1 of this Draft EIR.

¹⁵ According to Table 11A, Project Trip Generation, of the TA, the existing warehouse use generates up to 39 peak hour trips. Based on data provided by the existing operator of the warehouse, existing trips consist of 28 percent passenger vehicles, 37 percent medium-duty trucks, and 35 percent heavy-duty trucks. Therefore, the turning movement volumes for the existing 39 peak hour trips for the route taken by existing on-site uses has been adjusted to account for the current percentage of passenger vehicles versus trucks. Although other uses in the immediate Project vicinity consist of industrial uses, existing turning movement volumes were adjusted to account for trucks associated with on-site uses only to ensure that baseline traffic noise levels are not overestimated.

Turning movements at each studied intersection were used to determine traffic volumes along 35 roadway segments within the Project vicinity. The roadway segments, when compared to roadways located farther away from the Project Site, would experience the greatest percentage increase in traffic generated by the Project (i.e., as distances are increased from the Project Site, traffic is spread out over a greater geographic area, and its effects are reduced).

Existing roadway CNEL noise levels were calculated using the Federal Highway Administration's (FHWA's) Highway Traffic Noise Model (FHWA-TNM)¹⁶ and traffic volumes at the study intersections reported in the TA. The TNM model calculates the average noise level at specific locations based on traffic volumes, average speeds, and site environmental conditions.

(4) On-Site Construction

The Project and the Project with the Deck Concept would require similar construction activities. The Project and the Project with the Deck Concept would use a similar mix of construction equipment, but the Project would require a similar or slightly reduced construction intensity level on a maximum construction activity day as compared to the Project with the Deck Concept given that the Deck would not be constructed under the Project. As such the analysis below is based on the worst-case construction activity, which includes concurrent construction of the buildings and the Deck. Thus, the conclusions for construction are the same and apply to both the Project and the Project with the Deck Concept.¹⁷

On-site construction noise impacts were evaluated by determining the noise levels generated by the different types of construction activity anticipated, calculating the construction-related noise level generated by the mix of equipment assumed for all construction activities at nearby sensitive receptor locations, and comparing these construction-related noise levels to existing ambient noise levels (i.e., noise levels without construction noise) at those receptors. Construction activities include demolition of the existing uses on the Project Site and construction of the buildings and any infrastructure improvements needed to serve the Project.

Project construction includes the following six construction stages: (1) site preparation/demolition, (2) grading/excavation, (3) drainage/ utilities/ trenching, (4) foundation concrete pour, (5) building construction/ architectural coating, and (6) paving. According to the phasing schedule provided by the Project construction team, the following overlaps in stages would occur: (a) site preparation/ demolition and drainage/

¹⁶ The traffic noise model which was developed based on calculation methodologies provided in the Caltrans TeNS document and traffic data provided in the Project's TA provided in Appendix M-1 to this Draft EIR. This methodology, considered an industry standard, allows for the definition of roadway configurations, barrier information (if any), and receiver locations.

¹⁷ The nearest distance of construction activity to sensitive receptors under both the Project and Project With the Deck Concept would be the same. The Project would use a similar mix of construction equipment but would require a similar or slightly reduced construction intensity level on a maximum construction activity day given that the Deck would not be constructed. Therefore, the construction analysis is applicable to the maximum estimated construction noise levels for these scenarios.

utilities/ trenching, (b) site preparation/ demolition, drainage/ utilities/ trenching, and grading/ excavation, (c) drainage/ utilities/ trenching and grading/excavation, (d) grading/ excavation and foundation/ concrete pour, (e) foundation/ concrete pour and building construction, (f) building construction and architectural coating, and (g) building construction, architectural coating, and paving. Since construction of the Project as a whole would last more than 10 days, based on the criteria provided in the 2006 L.A. CEQA Thresholds Guide, the construction noise significance threshold used in this analysis is an increase in the ambient exterior noise level of 5 dBA L_{eq} or more at a noise-sensitive use.

It should also be noted that the 2006 L.A. CEQA Thresholds Guide contains screening criteria, including (1) whether construction activities occur within 500 feet of a noise sensitive use; and (2) whether construction occurs between the hours of 9:00 P.M. and 7:00 A.M. Monday through Friday, before 8:00 A.M. or after 6:00 P.M. on Saturday, or anytime on Sunday. A “no” response to these questions indicates that construction would not occur between these hours and there would normally be no significant construction noise impacts from the project. The Project would occur within 500 feet of a noise sensitive use and would potentially include construction activity between the hours of 9:00 P.M. and 7:00 A.M. Monday through Friday, before 8:00 A.M. and/or after 6:00 P.M. on Saturday, and/or potentially on Sunday. To ensure a worst case analysis, it has been assumed that nighttime construction activity would be similar to daytime activities (i.e., nighttime construction activity is not anticipated to be less intensive). Construction noise levels have been compared against weekday, Saturday, and Sunday daytime and nighttime ambient noise levels at each studied sensitive receptor.

(5) Off-Site Roadway Noise (Construction and Operation)

Roadway noise impacts were evaluated using the FHWA TNM based on the roadway traffic volume data provided in the TA prepared for the Project and included in Appendix M-1 of this Draft EIR.¹⁸ This method allows for the definition of roadway configurations, barrier information (if any), and receiver locations. Roadway noise attributable to Project development was calculated and compared to baseline noise levels that would occur under the “Without Project” condition.

With respect to operational traffic noise, impacts are evaluated for the existing year and the earliest buildout year of 2026 under the Project and Project with the Deck Concept. Operational traffic noise is also evaluated for year 2040, which would be the worst-case scenario for the analysis due to the increased traffic volumes over time of noise impacts only. Calculations are provided in Appendix M-1 of this Draft EIR.

(6) On-Site Stationary Noise (Operation)

Stationary noise impacts were evaluated by identifying the noise levels generated by outdoor stationary noise sources, such as open spaces, outdoor activities, rooftop

¹⁸ Fehr & Peers, TA, April 2021, Appendix E. Provided in Appendix M-1 of this Draft EIR.

mechanical equipment, and loading area activity, calculating the hourly L_{eq} noise level from each noise source at sensitive receptor property lines, and comparing such noise levels to existing ambient noise levels. More specifically, the following steps were undertaken to calculate outdoor stationary noise impacts:

1. Ambient noise levels at surrounding off-site sensitive receptor locations were determined based on field measurement data (see **Table 1**).
2. Distances between stationary noise sources and surrounding sensitive receptor locations were measured using Project architectural drawings, site plans, and Google Earth.
3. Stationary source noise levels were then calculated for each sensitive receptor location based on the standard point-source noise-distance attenuation factor of 6 dBA for each doubling of distance over a hard surface.
4. Noise level increases were compared to the stationary source noise significance thresholds discussed below.
5. For outdoor mechanical equipment, the maximum allowable noise emissions from any and all outdoor mechanical equipment were specified such that noise levels would not exceed the significance threshold discussed below.
6. Parking related noise levels were estimated utilizing the methodology recommended by the FTA for the general assessment of stationary transit noise sources. Using this methodology, the Project's peak hourly noise level that would be generated by the on-site parking levels was estimated using the following FTA equation for a parking lot:¹⁹

$$L_{eq}(h) = SEL_{ref} + 10\log(NA/1000) - 35.6, \text{ where}$$

$L_{eq}(h)$ = hourly L_{eq} noise level at 50 feet

SEL_{ref} = reference noise level for stationary noise source represented in sound exposure level (SEL) at 50 feet

N_A = number of automobiles per hour

7. The combined noise levels from each operational noise source were estimated and the combined noise level increases were compared to the significance thresholds discussed below.

For operational stationary noise, the operational stationary noise significance threshold used in this analysis is whether the project causes the ambient noise level measured at the property line of affected uses to increase by 5 dBA in accordance with Los Angeles Municipal Code (LAMC), Chapter XI, Section 112.02.

Although the Project and the Project with the Deck Concept include the same building programming and outdoor programming activities, under the Project with the Deck Concept,

¹⁹ FTA, Section 4.4, Tables 4.13-14, September 2018.

the timing and frequency of outdoor programming would increase, along with vehicular trips and effects on retail VMT. Stationary noise impacts were evaluated by identifying the noise levels generated by outdoor stationary noise sources, such as open spaces, outdoor activities, rooftop mechanical equipment, parking facilities, and loading area activity, calculating the hourly L_{eq} noise level from each noise source at sensitive receptor property lines, and comparing such noise levels to existing ambient noise levels. The combined noise levels from each operational noise source were estimated to evaluate composite noise level impacts at the nearest sensitive receptor.

For purposes of providing a conservative noise analysis for outdoor spaces, the maximum occupant load of Project outdoor spaces was calculated based on an occupancy load factor of 15 square feet per person for an assembly area without fixed seats, according to the California Building Code Table 1004.5 Maximum Floor Area Allowances Per Occupant.²⁰ Although this occupancy load factor provides an overestimation of the occupancy load and associated noise within passive landscaped areas, it has been applied to the square footage of the Project's outdoor spaces to provide a conservative worst-case noise analysis.

Actual capacities for the Project outdoor spaces would be lower and, in some cases substantially lower, due to design considerations, such as building ingress/egress limitations, elevator and stairwell capacities, fire escape route capacities, and other capacity considerations. Noise from female adults, male adults, and children talking at a raised level is approximately 63 dBA, 65 dBA, and 65 dBA, respectively, at a distance of 3 feet.²¹ As a conservative analysis, it is assumed that each outdoor space would be at full capacity and that half of the visitors would be adults (half male and half female) and half would be children. Of the adults and children, half would be talking simultaneously (assuming approximately half of the occupants talking and the other half listening). Several of the proposed outdoor spaces may include amplified sound, including the River Balcony (North), Rooftop Hotel Bar/Pool, Residential Pool Deck, Mesquit Paseo, Sculpture Garden, Fitness Deck, Public Plaza Flex Deck, 7th Street Terrace, and River Balcony (South). The type and level of noise from each space would vary based on the purpose and use of the space and the occupancy load. For purposes of providing a conservative assumption for amplified sound at outdoor spaces, it is assumed that amplified sound systems would be used for live music or similar amplified sound resulting in noise levels of up to 91 dBA L_{eq} at 25 feet from the source.²²

Sources of noise within the parking structures would primarily include vehicular movements and engine noise, doors opening and closing, and intermittent car alarms. Noise levels within the parking structure would fluctuate with the amount of automobile

²⁰ California Building Standards Commission, 2019 Title 24, Part 2, Volume 1 – California Building Code.

²¹ American Journal of Audiology Vol.7 21-25 October 1998. doi:10.1044/1059-0889(1998/012).

²² University of Michigan, Department of Environmental Health Science, August 22, 2016. *Noise Navigator Sound Level Database with Over 1700 Measurement Values*.

and human activity. Parking noise has been calculated for both the Project and Project with Deck Concept based on the forecasted trip generation included in the Project's TA.

The proposed Project includes a heliport on the rooftop of Building 5, at an approximate elevation of 378 feet. It is assumed that there would be one arrival and one departure daily during daytime hours. The helicopter type, which is commonly used in corporate settings, is the Bell 429 GlobalRanger. The Bell 429 is a twin-engine light-utility helicopter with a cruise speed of approximately 150 knots primarily used for passenger transport. The capacity is one pilot plus seven passengers and it has a maximum gross weight of 7,000 pounds. It is capable of flying up to 411 nautical miles, which could cover most of Nevada, Arizona, and northern California, such as San Francisco and Sacramento.

(7) Groundborne Vibration (Construction and Operation)

Groundborne vibration impacts were evaluated by identifying potential vibration sources, measuring the distance between vibration sources and surrounding structure locations, and making a determination based on the significance criteria described in the Vibration Impacts section.

The City currently does not have significance criteria to assess vibration impacts during construction. Thus, FTA guidelines set forth in their 2018 Transit Noise and Vibration Assessment are used to evaluate potential impacts related to construction vibration for both potential building damage and human annoyance.²³ The FTA guidelines regarding construction vibration are the most current guidelines and are commonly used in evaluating vibration impacts. Based on the FTA guidance, groundborne vibration could result in building damage if any of the following were to occur:

- Project construction activities cause groundborne vibration levels to exceed 0.5 in/sec PPV at the nearest offsite reinforced-concrete, steel, or timber building.
- Project construction activities cause groundborne vibration levels to exceed 0.3 in/sec PPV at the nearest offsite engineered concrete and masonry building.
- Project construction activities cause groundborne vibration levels to exceed 0.2 in/sec PPV at the nearest offsite non-engineered timber building.
- Project construction activities cause groundborne vibration levels to exceed 0.12 in/sec PPV at buildings extremely susceptible to vibration damage, such as historic buildings.

Structural impacts from the Project were evaluated based on Caltrans' Transit Noise and Vibration Impact Assessment which provides PPV values for different types of equipment at a distance of 25 feet (See Table 12-2 of the Assessment). The standardized PPV

²³ FTA, Transit Noise and Vibration Impact Assessment, 2018

values can then be attenuated based on the measured distance of the vibration sensitive receptor from the Project Site. The standard attenuation formula is as follows:

$$PPV_{\text{equip}} = PPV_{\text{ref}} \times (25/D)^n$$

Where: PPV_{equip} is the PPV in in/sec of the equipment adjusted for distance

PPV_{ref} is the reference vibration level in in/sec at 25 feet

D is the distance from the equipment to the receiver

n is the soil type classification (typically ranging from 1 to 1.5; a factor of 1.5 was used for this analysis)

Based on FTA guidance, construction vibration could be perceived as annoying to humans if any of the following were to occur:

- Project construction activities cause groundborne vibration levels to exceed 72 VdB at off-site sensitive uses, including residential uses.

The FTA guidance further classifies the vibration levels above based on whether the vibration-producing events are frequent, occasional, or infrequent. “Frequent Events” is defined as more than 70 vibration events of the same source per day. “Occasional Events” is defined as between 30 and 70 vibration events of the same source per day. “Infrequent Events” is defined as fewer than 30 vibration events of the same kind per day. The values listed above are applicable to “Frequent Events.” For purposes of conservative analysis, the vibration analysis provided herein for potential human annoyance compares the estimated vibration levels generated during construction and operation of the Project to the 72 VdB significance threshold for off-site residential uses for “Frequent Event.” The vibration analysis for the Project conservatively used the closest distance to construction activity and the construction phase with the equipment mix that would result in the greatest potential vibration.

Similar to structural impacts, the Project’s human annoyance impacts are calculated using the same methodology from Caltrans’ Transit Noise and Vibration Impact Assessment which provides VdB values for different types of equipment at a distance of 25 feet (See Table 12-2 of the Assessment). The standardized PPV values can then be attenuated based on the measured distance of the vibration sensitive receptor from the Project Site. The standard attenuation formula is as follows:

$$VdB_{\text{equip}} = VdB_{\text{ref}} - 30 \times \log(D/25)$$

Where: VdB_{equip} is the noise level in velocity decibels of the equipment adjusted for distance

VdB_{ref} is the reference vibration level in velocity decibels at 25 feet

D is the distance from the equipment to the receiver

670 Mesquit Project

2. Noise and Vibration Worksheets

Noise and Vibration Calculations and Model Outputs

Ambient Noise Measurements

SUMMARY OF AMBIENT NOISE MEASUREMENTS

		Measured Ambient Noise Levels ^a (dBA L _{eq})					
Measurement Location	Receptor	Weekday		Saturday		Sunday	
		Daytime Hours (7:00 A.M. – 10:00 P.M.)	Nighttime Hours (10:00 P.M. – 7:00 A.M.)	Daytime Hours (7:00 A.M. – 10:00 P.M.)	Nighttime Hours (10:00 P.M. – 7:00 A.M.)	Daytime Hours (7:00 A.M. – 10:00 P.M.)	Nighttime Hours (10:00 P.M. – 7:00 A.M.)
M1	R1	70.7	67.5	71.3	72.6	75.6	69.1
M2	N/A	70.1	64.5	68.1	49.9	58.6	67.9
M3	R4	66.6	63.8	64.8	47.1	65.9	63.9
M4	N/A	69.1	60.7	60.4	60.4	61.2	60.6
M5	R2	76.3	71.5	74.7	74.3	73.7	70.2
M6	R3	76.6	63.5	68.6	71.3	65.1	63.3

^a Noise levels for locations M1 through M4 were taken over 24 hours (long-term) from secured locations on the Project Site and are based on daytime average noise levels from 7:00 A.M. to 10:00 P.M. and nighttime average noise levels from 10:00 P.M. to 7:00 A.M. Noise levels for locations M5 and M6 are based on short-term (15-minute) measurements. Both long-term and short-term ambient noise measurements appropriately establish baseline noise levels for the impact analysis.

N/A Measurement location does not represent any noise-sensitive receptors. Measurements at these locations represent the noise conditions at the Project Site.

SOURCE: ESA, 2021.

Noise Measurement Data

Project: 670 Mesquit **Location:** M1 (R1)

04/16/18 04/17/18 04/18/18 04/19/18

Start Date and Time

12:00:00 AM		65.2
1:00:00 AM		64.8
2:00:00 AM		64.5
3:00:00 AM		65.9
4:00:00 AM		68.3
5:00:00 AM		69.9
6:00:00 AM		71.2
7:00:00 AM		70.4
8:00:00 AM		71.0
9:00:00 AM		70.9
10:00:00 AM		70.8
11:00:00 AM	72.1	
12:00:00 PM	72.1	
1:00:00 PM	72.5	
2:00:00 PM	71.9	
3:00:00 PM	71.9	
4:00:00 PM	70.3	
5:00:00 PM	70.4	
6:00:00 PM	69.3	
7:00:00 PM	68.0	
8:00:00 PM	67.1	
9:00:00 PM	66.0	
10:00:00 PM	66.0	
11:00:00 PM	65.6	

4/16/2018	9:00:00 AM	Start
4/17/2018	10:00:00 AM	4/16/18 11:00 AM
4/18/2018	11:00:00 AM	End
4/19/2018	12:00:00 PM	4/17/18 11:00 AM
	1:00:00 PM	
	2:00:00 PM	
	3:00:00 PM	

CNEL	74.7
L _{dn}	74.5
24-hr Max.	72.5
24-hr Min.	64.5
24-hr Nighttime Average ^a	67.5
24-hr Nighttime Max	71.2
24-hr Nighttime Min	64.5
24-hr Daytime Average ^a	70.7
24-hr Daytime Max	72.5
24-hr Daytime Min	66.0
Total Period Average	69.7
Total Period Max	72.5
Total Period Min	64.5
Total Period Daytime Average	70.7
Total Period Daytime Max	72.5
Total Period Daytime Min	69.3
Total Period Nighttime Average	67.5
Total Period Nighttime Max	71.2
Total Period Nighttime Min	64.5

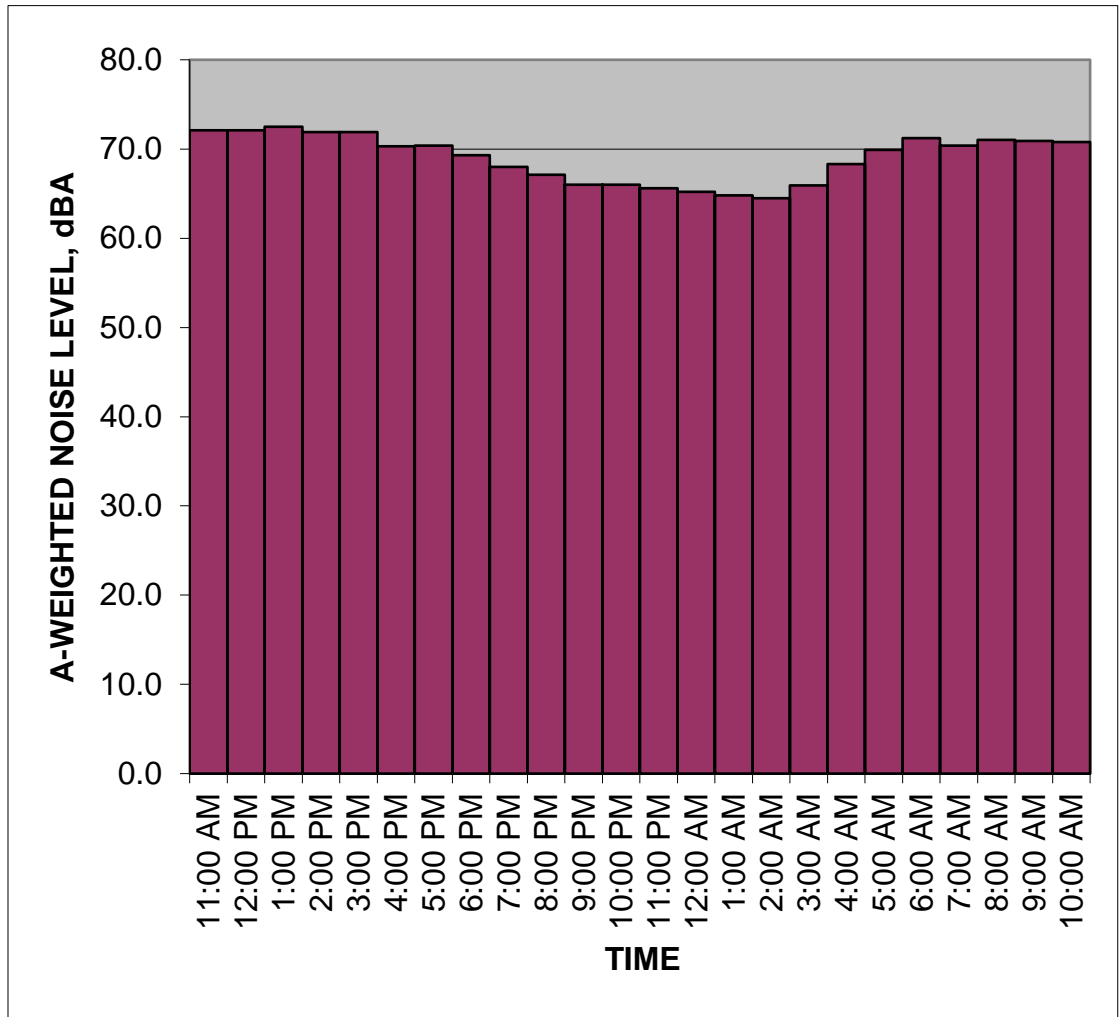
^a Daytime hours are from 7:00 a.m. to 10:00 p.m., and nighttime hours are from 10:00 p.m. to 7:00 a.m.

Measured Ambient Noise Levels

Project: 670 Mesquit
 Location: M1 (R1)
 Sources: Ambient

Date: April 17-18, 2017

TIME	HNL, dB(A)
11:00 AM	72.1
12:00 PM	72.1
1:00 PM	72.5
2:00 PM	71.9
3:00 PM	71.9
4:00 PM	70.3
5:00 PM	70.4
6:00 PM	69.3
7:00 PM	68.0
8:00 PM	67.1
9:00 PM	66.0
10:00 PM	66.0
11:00 PM	65.6
12:00 AM	65.2
1:00 AM	64.8
2:00 AM	64.5
3:00 AM	65.9
4:00 AM	68.3
5:00 AM	69.9
6:00 AM	71.2
7:00 AM	70.4
8:00 AM	71.0
9:00 AM	70.9
10:00 AM	70.8
CNEL, dB(A):	74.7



NOTES:

Noise Measurement Data

Project: 670 Mesquit **Location:** M2

04/16/18 04/17/18 04/18/18 04/19/18

Start Date and Time

12:00:00 AM		60.5
1:00:00 AM		60.9
2:00:00 AM		60.5
3:00:00 AM		61.7
4:00:00 AM		66.0
5:00:00 AM		66.4
6:00:00 AM		69.0
7:00:00 AM		69.3
8:00:00 AM		76.8
9:00:00 AM		71.0
10:00:00 AM	73.9	
11:00:00 AM	72.5	
12:00:00 PM	64.5	
1:00:00 PM	69.3	
2:00:00 PM	69.8	
3:00:00 PM	69.8	
4:00:00 PM	65.7	
5:00:00 PM	65.5	
6:00:00 PM	59.6	
7:00:00 PM	59.5	
8:00:00 PM	57.6	
9:00:00 PM	58.7	
10:00:00 PM	63.9	
11:00:00 PM	62.2	

4/16/2018	9:00:00 AM	Start
4/17/2018	10:00:00 AM	4/16/18 10:00 AM
4/18/2018	11:00:00 AM	End
4/19/2018	12:00:00 PM	4/17/18 10:00 AM
	1:00:00 PM	
	2:00:00 PM	
	3:00:00 PM	

CNEL	72.3
L _{dn}	72.3
24-hr Max.	76.8
24-hr Min.	57.6
24-hr Nighttime Average ^a	64.5
24-hr Nighttime Max	69.0
24-hr Nighttime Min	60.5
24-hr Daytime Average ^a	70.1
24-hr Daytime Max	76.8
24-hr Daytime Min	57.6
Total Period Average	68.7
Total Period Max	76.8
Total Period Min	57.6
Total Period Daytime Average	70.1
Total Period Daytime Max	76.8
Total Period Daytime Min	59.6
Total Period Nighttime Average	64.5
Total Period Nighttime Max	69.0
Total Period Nighttime Min	57.6

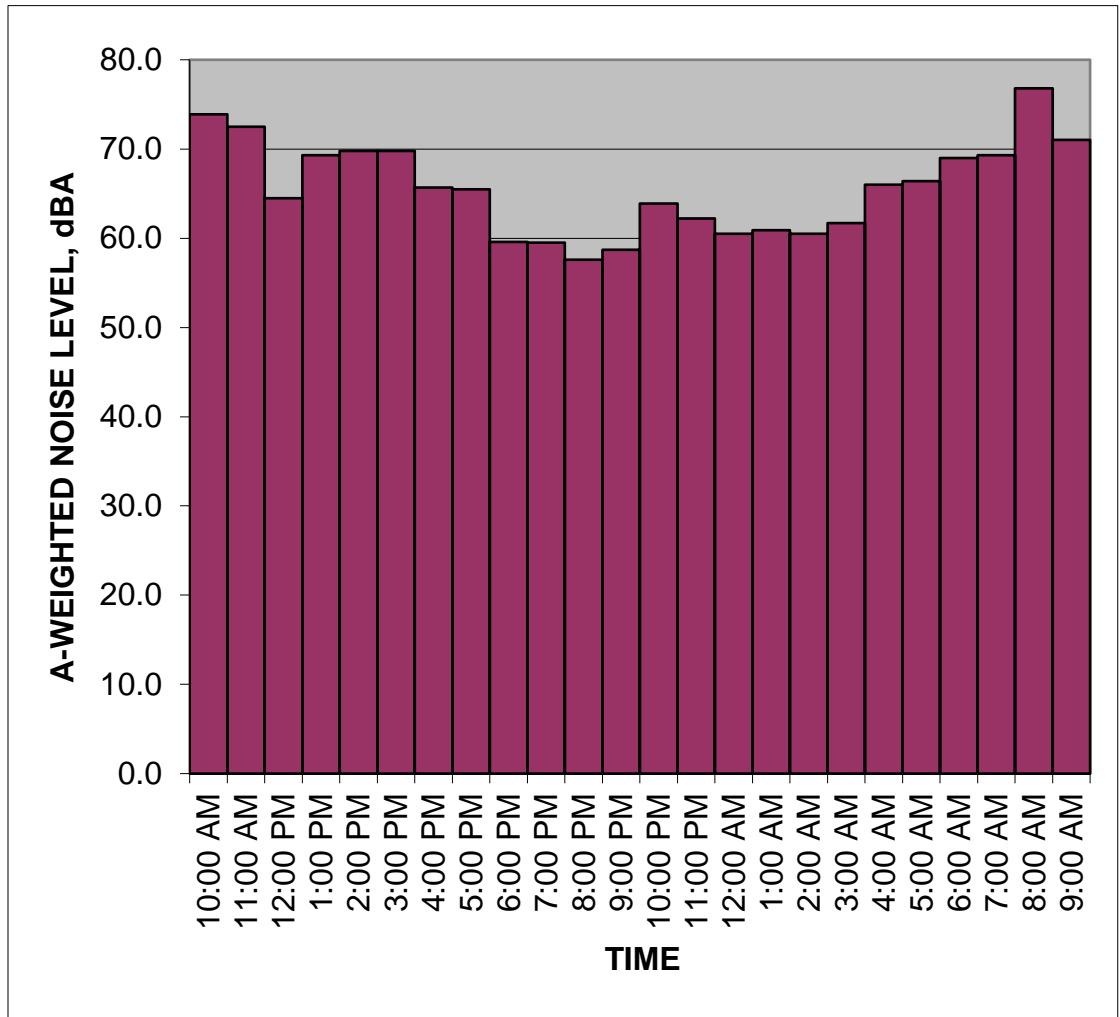
^a Daytime hours are from 7:00 a.m. to 10:00 p.m., and nighttime hours are from 10:00 p.m. to 7:00 a.m.

Measured Ambient Noise Levels

Project: 670 Mesquit
 Location: M2
 Sources: Ambient

Date: April 16-17, 2018

TIME	HNL, dB(A)
10:00 AM	73.9
11:00 AM	72.5
12:00 PM	64.5
1:00 PM	69.3
2:00 PM	69.8
3:00 PM	69.8
4:00 PM	65.7
5:00 PM	65.5
6:00 PM	59.6
7:00 PM	59.5
8:00 PM	57.6
9:00 PM	58.7
10:00 PM	63.9
11:00 PM	62.2
12:00 AM	60.5
1:00 AM	60.9
2:00 AM	60.5
3:00 AM	61.7
4:00 AM	66.0
5:00 AM	66.4
6:00 AM	69.0
7:00 AM	69.3
8:00 AM	76.8
9:00 AM	71.0
CNEL, dB(A):	72.3



NOTES:

Noise Measurement Data

Project: 670 Mesquit **Location:** M3 (R4)

04/16/18 04/17/18 04/18/18 04/19/18

Start Date and Time

12:00:00 AM		60.3
1:00:00 AM		59.8
2:00:00 AM		64.2
3:00:00 AM		60.3
4:00:00 AM		66.9
5:00:00 AM		67.2
6:00:00 AM		65.9
7:00:00 AM		66.8
8:00:00 AM		66.6
9:00:00 AM		64.5
10:00:00 AM		62.8
11:00:00 AM	68.1	
12:00:00 PM	69.6	
1:00:00 PM	67.7	
2:00:00 PM	69.6	
3:00:00 PM	69.6	
4:00:00 PM	66.0	
5:00:00 PM	65.1	
6:00:00 PM	65.7	
7:00:00 PM	62.9	
8:00:00 PM	58.7	
9:00:00 PM	58.6	
10:00:00 PM	59.4	
11:00:00 PM	60.1	

4/16/2018	9:00:00 AM	Start
4/17/2018	10:00:00 AM	4/16/18 11:00 AM
4/18/2018	11:00:00 AM	End
4/19/2018	12:00:00 PM	4/17/18 11:00 AM
	1:00:00 PM	
	2:00:00 PM	
	3:00:00 PM	

CNEL	70.9
L _{dn}	70.7
24-hr Max.	69.6
24-hr Min.	58.6
24-hr Nighttime Average ^a	63.8
24-hr Nighttime Max	67.2
24-hr Nighttime Min	59.4
24-hr Daytime Average ^a	66.6
24-hr Daytime Max	69.6
24-hr Daytime Min	58.6
Total Period Average	65.7
Total Period Max	69.6
Total Period Min	58.6
Total Period Daytime Average	66.6
Total Period Daytime Max	69.6
Total Period Daytime Min	62.8
Total Period Nighttime Average	63.8
Total Period Nighttime Max	67.2
Total Period Nighttime Min	58.6

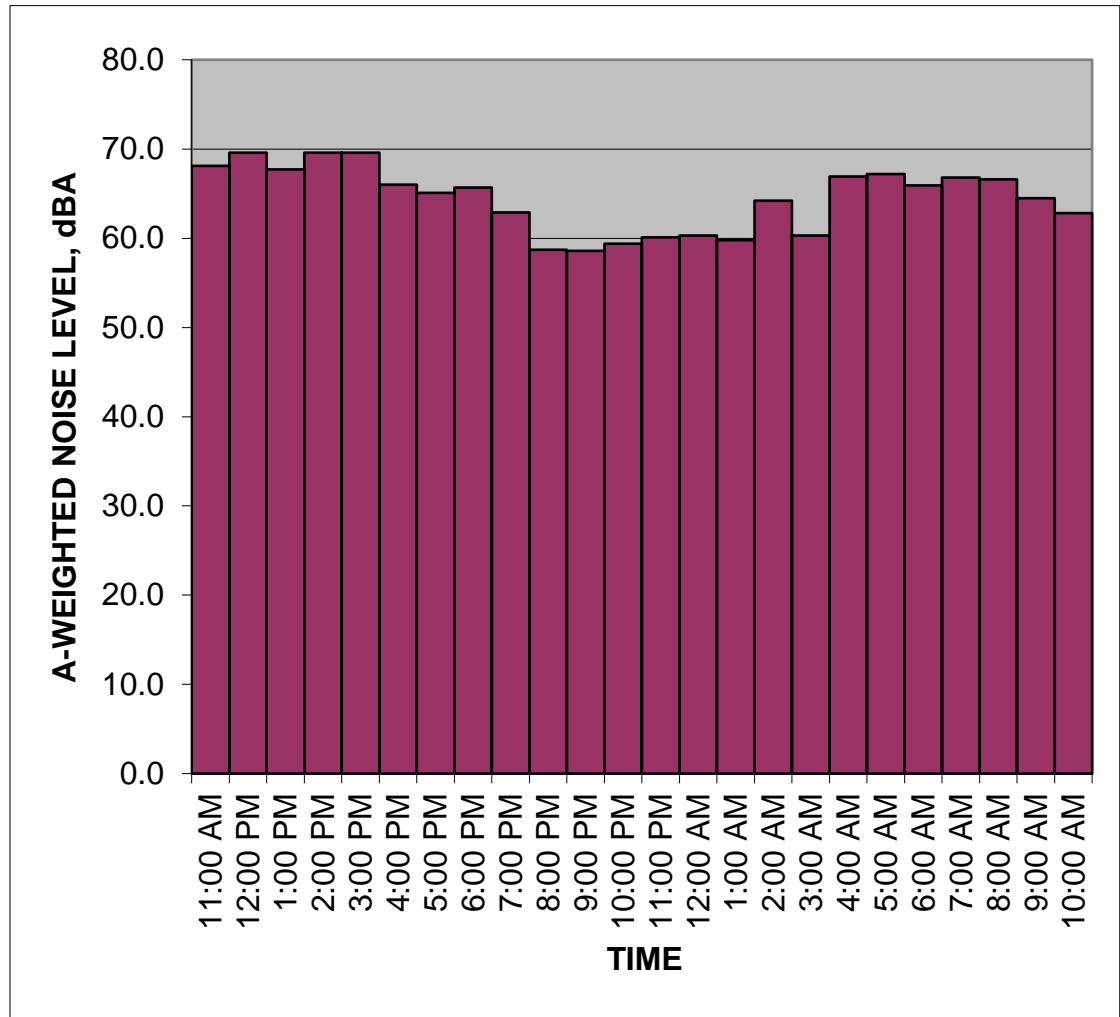
^a Daytime hours are from 7:00 a.m. to 10:00 p.m., and nighttime hours are from 10:00 p.m. to 7:00 a.m.

Measured Ambient Noise Levels

Project: 670 Mesquit
 Location: M3 (R4)
 Sources: Ambient

Date: April 16-17, 2018

TIME	HNL, dB(A)
11:00 AM	68.1
12:00 PM	69.6
1:00 PM	67.7
2:00 PM	69.6
3:00 PM	69.6
4:00 PM	66.0
5:00 PM	65.1
6:00 PM	65.7
7:00 PM	62.9
8:00 PM	58.7
9:00 PM	58.6
10:00 PM	59.4
11:00 PM	60.1
12:00 AM	60.3
1:00 AM	59.8
2:00 AM	64.2
3:00 AM	60.3
4:00 AM	66.9
5:00 AM	67.2
6:00 AM	65.9
7:00 AM	66.8
8:00 AM	66.6
9:00 AM	64.5
10:00 AM	62.8
CNEL, dB(A):	70.9



NOTES:

670 Mesquit Noise Measurements - M3

Wind Meas Site	Wind Avg Location	Wind Max Number	RMS Dir Date	Excd Time	Duration	Leq	SEL	Lmax	Lmin	Peak	Uwpk	L(1)	L(10)	L(25)	L(50)	L(90)	L(99)	Hz	Hz	@ Max	Count
0		0	16Apr 18	10:54:23	3600	68.1	103.7	82.9	62.5	103.8	110.1	75.3	69.9	68.3	66.9	65.5	63.9	0	0	N	1
0		0	16Apr 18	11:54:23	3600	69.6	105.1	84.2	63	105.1	106.4	77.1	73.3	69.9	67.4	64.6	63.2	0	0	N	0
0		0	16Apr 18	12:54:23	3600	67.7	103.3	85.4	60.4	103.6	111.5	74.8	71.2	68.1	66.1	61.8	61	0	0	N	11
0		0	16Apr 18	13:54:23	3600	69.6	105.2	83.7	61.5	104	111.4	77.7	73.1	70.2	67.6	63.1	62.1	0	0	N	2
0		0	16Apr 18	14:54:23	3600	69.6	105.2	89.2	61	106.8	114.9	75.9	73	70.8	67.6	62.7	61.6	0	0	N	6
0		0	16Apr 18	15:54:23	3600	66	101.6	85.3	60.9	101	118.7	72.2	68	65.7	63.9	62.2	61.2	0	0	N	18
0		0	16Apr 18	16:54:23	3600	65.1	100.7	75.4	61	94.6	115.5	71.5	67	65.4	64.4	62.3	61.2	0	0	N	13
0		0	16Apr 18	17:54:23	3600	65.7	101.2	78	61	96.6	123.6	72.3	67.9	66.3	64.5	62.3	61.2	0	0	N	13
0		0	16Apr 18	18:54:23	3600	62.9	98.5	73.3	53.7	91.5	114.8	69.7	66.6	65	60.6	55.2	54.1	0	0	N	19
0		0	16Apr 18	19:54:23	3600	58.7	94.3	72	52.4	87.7	110.7	68.7	61.4	57.6	55.9	54	53	0	0	N	16
0		0	16Apr 18	20:54:23	3600	58.6	94.2	71.9	50.4	87.2	101.7	67.9	62.7	57.6	54.8	52.5	51.1	0	0	N	18
0		0	16Apr 18	21:54:23	3600	59.4	95	73.7	50.5	87.2	96.2	70	63.1	58	54	51.7	50.7	0	0	N	13
0		0	16Apr 18	22:54:23	3600	60.1	95.6	73.3	52.2	90.2	103.5	67.6	63.9	62	56.7	53.8	52.5	0	0	N	11
0		0	16Apr 18	23:54:23	3600	60.3	95.9	73.8	52.8	97.3	103.1	67.2	62.9	62.2	57.9	53.7	53.1	0	0	N	9
0		0	17Apr 18	0:54:23	3600	59.8	95.4	69.8	54.6	84.5	103.9	66.2	62.8	62.2	56.8	55.4	54.6	0	0	N	5
0		0	17Apr 18	1:54:23	3600	64.2	99.8	90.3	55.3	112.8	113.3	74.6	66.4	62.6	57.7	56	55.3	0	0	N	4
0		0	17Apr 18	2:54:23	3600	60.3	95.9	75.6	54.2	90	112.7	67.4	63	62.2	57.5	55.1	54.2	0	0	N	8
0		0	17Apr 18	3:54:23	3600	66.9	102.4	82.6	54.9	100.9	113	72.8	71.7	71	61.8	56.2	55.1	0	0	N	14
0		0	17Apr 18	4:54:23	3600	67.2	102.8	80.9	58.7	97.3	118.5	72.6	71.3	67.8	66	61.9	59.8	0	0	N	26
0		0	17Apr 18	5:54:23	3600	65.9	101.5	79.3	58.8	99.7	120.8	74.6	68.7	66.2	63.4	60.7	59.5	0	0	N	54
0		0	17Apr 18	6:54:23	3600	66.8	102.4	86.4	55.2	105.8	115.7	78.5	67.8	62.8	60.6	58.2	56.3	0	0	N	55
0		0	17Apr 18	7:54:23	3600	66.6	102.2	88.1	57	108.2	109.7	78.1	68.2	64.4	61.7	58.9	57.6	0	0	N	73
0		0	17Apr 18	8:54:23	3600	64.5	100	86	56.3	100.4	108.4	70.5	68.1	65.1	62.6	58.3	56.5	0	0	N	18
0		0	17Apr 18	9:54:23	3600	62.8	98.3	77.9	56.3	96.4	97.1	68.8	64.9	63.6	61.7	58.3	56.9	0	0	N	18
0		0	17Apr 18	10:54:23	3600	63.7	99.2	79.7	54.3	101.5	102.6	72.1	66.4	63.9	62	56.6	55	0	0	N	25
0		0	17Apr 18	11:54:23	3600	69.6	105.1	86.1	54	107.1	107.9	74.8	72.6	71.5	68.4	62.8	56.1	0	0	N	20
0		0	17Apr 18	12:54:23	3600	68.5	104	85.4	62.7	104.7	103.9	76.2	70.6	68.8	66.6	64.4	63.3	0	0	N	0
0		0	17Apr 18	13:54:23	3600	69.5	105.1	84.9	61.9	103.1	105.3	76.1	72.8	70	68.4	64.2	63.1	0	0	N	1
0		0	17Apr 18	14:54:23	3600	69.4	105	84.6	63.2	105	106.6	74.4	71.6	70.6	69.3	64.8	64	0	0	N	0
0		0	17Apr 18	15:54:23	3600	68.9	104.5	80.9	64.5	99.3	105.3	73	71	70.4	67.8	66.2	65.1	0	0	N	0
0		0	17Apr 18	16:54:23	3600	68	103.6	91.5	63.3	108.2	109.7	75.4	68.5	67.4	66.3	64.3	63.3	0	0	N	0
0		0	17Apr 18	17:54:23	3600	65.7	101.3	82.5	63.1	100.3	104.3	71.6	67.2	65.7	64.9	63.9	63.1	0	0	N	0
0		0	17Apr 18	18:54:23	3600	60.8	96.4	75.7	51.3	97	104.3	70.8	64.7	60.1	56.2	53.6	52.2	0	0	N	16
0		0	17Apr 18	19:54:23	3600	59.5	95	73.6	52.6	92.2	103.1	70.4	62	57.5	55.6	54	53	0	0	N	17
0		0	17Apr 18	20:54:23	3600	56.8	92.4	71.6	51.1	93	92.6	65.2	59.8	55.8	54.3	52.3	51.2	0	0	N	7
0		0	17Apr 18	21:54:23	3600	59.2	94.7	73.3	53.6	86.7	95.1	69.3	61.3	58.7	56.7	54.6	53.6	0	0	N	11
0		0	17Apr 18	22:54:23	3600	58.5	94.1	76.2	52.2	90.3	95.1	70.2	59	56.9	55.2	53.6	53	0	0	N	11
0		0	17Apr 18	23:54:23	3600	59.2	94.8	72.1	55	86.9	97.1	67.2	60	59	58.1	56.6	55.7	0	0	N	10
0		0	18Apr 18	0:54:23	3600	64.1	99.7	93.5	55.9	110.8	113.7	73.3	61.5	59.2	58.4	57.2	56.2	0	0	N	5
0		0	18Apr 18	1:54:23	3600	58.6	94.2	76.4	53.9	92.3	100.5	68.3	58.6	57.6	56.6	55.1	54.2	0	0	N	2
0		0	18Apr 18	2:54:23	3600	58.4	94	73.5	54.9	85.1	95.1	65.9	59.4	58.5	57.6	56.2	55.2	0	0	N	7
0		0	18Apr 18	3:54:23	3600	63.4	99	78.6	56.4	98.1	99.3	72.9	65.9	63.9	60.8	57.7	56.8	0	0	N	55
0		0	18Apr 18	4:54:23	3600	69.7	105.3	85.1	59	103	103.5	74	73	72.3	67.8	63.2	60.1	0	0	N	4
0		0	18Apr 18	5:54:23	3600	70.6	106.2	87.7	66.3	108.8	108.9	76.7	73.1	70.6	68.8	67.6	67	0	0	N	0
0		0	18Apr 18	6:54:23	3600	68.9	104.5	88.1	65.2	108.6	108.4	74.9	70	68.9	68.1	66.6	65.6	0	0	N	0
0		0	18Apr 18	7:54:23	3600	67.3	102.9	84.5	63.7	104.8	110.8	74.3	68.7	67.3	66	64.5	64	0	0	N	0
0		0	18Apr 18	8:54:23	3005.2	67.4	102.2	79.1	63.6	97.9	100	73	69.5	68	66.6	64.6	64	0	0	N	0

Noise Measurement Data

Project: **670 Mesquit** Location: **M4**

04/16/18 04/17/18 04/18/18 04/19/18

Start Date and Time

12:00:00 AM		56.5
1:00:00 AM		57.2
2:00:00 AM		59.0
3:00:00 AM		60.2
4:00:00 AM		63.7
5:00:00 AM		61.4
6:00:00 AM		64.0
7:00:00 AM		65.7
8:00:00 AM		71.8
9:00:00 AM		69.5
10:00:00 AM		70.7
11:00:00 AM		69.3
12:00:00 PM	63.3	
1:00:00 PM	60.4	
2:00:00 PM	77.6	
3:00:00 PM	62.1	
4:00:00 PM	64.0	
5:00:00 PM	63.8	
6:00:00 PM	63.0	
7:00:00 PM	59.6	
8:00:00 PM	61.6	
9:00:00 PM	61.0	
10:00:00 PM	59.8	
11:00:00 PM	58.1	

4/16/2018	9:00:00 AM	Start
4/17/2018	10:00:00 AM	4/16/18 12:00 PM
4/18/2018	11:00:00 AM	End
4/19/2018	12:00:00 PM	4/17/18 12:00 PM
	1:00:00 PM	
	2:00:00 PM	
	3:00:00 PM	

CNEL	69.9
L _{dn}	69.7
24-hr Max.	77.6
24-hr Min.	56.5
24-hr Nighttime Average ^a	60.7
24-hr Nighttime Max	64.0
24-hr Nighttime Min	56.5
24-hr Daytime Average ^a	69.1
24-hr Daytime Max	77.6
24-hr Daytime Min	59.6
Total Period Average	67.4
Total Period Max	77.6
Total Period Min	56.5
Total Period Daytime Average	69.1
Total Period Daytime Max	77.6
Total Period Daytime Min	60.4
Total Period Nighttime Average	60.7
Total Period Nighttime Max	64.0
Total Period Nighttime Min	56.5

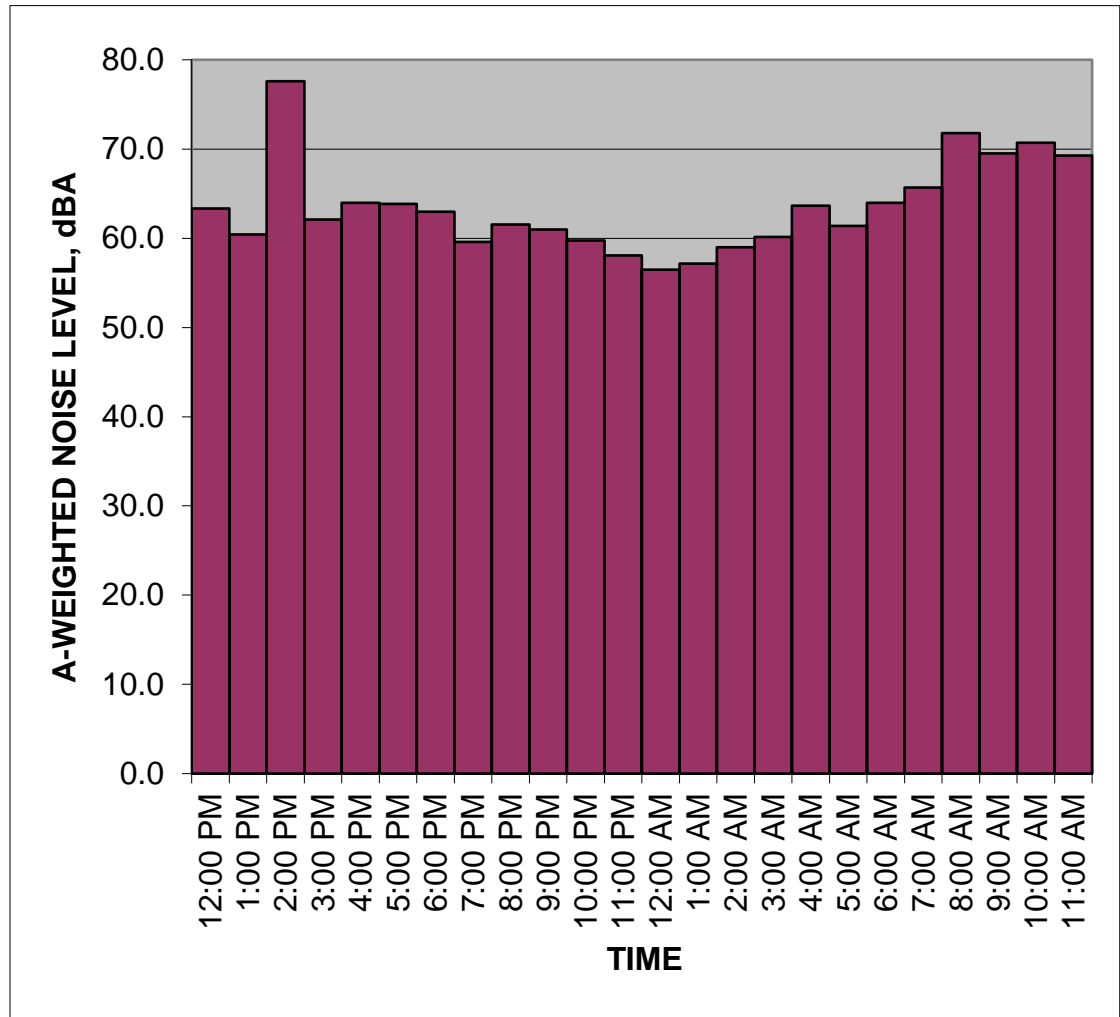
^a Daytime hours are from 7:00 a.m. to 10:00 p.m., and nighttime hours are from 10:00 p.m. to 7:00 a.m.

Measured Ambient Noise Levels

Project: 670 Mesquit
 Location: M4
 Sources: Ambient

Date: April 16-17, 2018

TIME	HNL, dB(A)
12:00 PM	63.3
1:00 PM	60.4
2:00 PM	77.6
3:00 PM	62.1
4:00 PM	64.0
5:00 PM	63.8
6:00 PM	63.0
7:00 PM	59.6
8:00 PM	61.6
9:00 PM	61.0
10:00 PM	59.8
11:00 PM	58.1
12:00 AM	56.5
1:00 AM	57.2
2:00 AM	59.0
3:00 AM	60.2
4:00 AM	63.7
5:00 AM	61.4
6:00 AM	64.0
7:00 AM	65.7
8:00 AM	71.8
9:00 AM	69.5
10:00 AM	70.7
11:00 AM	69.3
CNEL, dB(A):	69.9



NOTES:

Summary

File Name on Meter M4
 File Name on PC M4
 Serial Number 0004983
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location 670 Mesquit
 Job Description Noise Measurements
 Note

Measurement

Description
 Start 2018-04-16 12:02:04
 Stop 2018-04-17 05:49:31
 Duration 17:47:26.1
 Run Time 17:47:26.1
 Pause 00:00:00.0

 Pre Calibration 2018-04-16 09:01:06
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 145.5 dB

	A	C	Z
Under Range Peak	101.7	98.7	103.7 dB
Under Range Limit	50.7	48.7	56.7 dB
Noise Floor	37.6	38.2	45.9 dB

Results

LASeq 66.6 dB
 LASE 114.6 dB
 EAS 32.250 mPa²h
 EAS8 14.502 mPa²h
 EAS40 72.511 mPa²h
 LAspeak (max) 2018-04-16 14:59:41 123.3 dB
 LASmax 2018-04-16 14:59:41 107.4 dB
 LASmin 2018-04-16 21:56:18 51.2 dB
 SEA 139.9 dB

 LAS > 85.0 dB (Exceedance Counts / Duration) 3 19.8 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAspeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAspeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAspeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 78.9 dB
 LASeq 66.6 dB
 LCSeq - LASeq 12.4 dB
 LAleq 70.0 dB
 LAeq 66.6 dB
 LAleq - LAeq 3.4 dB

Leq
 LS(max)
 LS(min)
 LPeak(max)

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	66.6					
LS(max)	107.4	2018/04/16 14:59:41				
LS(min)	51.2	2018/04/16 21:56:18				
LPeak(max)	123.3	2018/04/16 14:59:41				

Overloads 0
 Overload Duration 0.0 s

Noise Measurement Data

Project: 670 Mesquit **Location:** M5 (R2)

04/16/18 04/17/18 04/18/18 04/19/18

Start Date and Time

12:00:00 AM		71.5
1:00:00 AM		71.5
2:00:00 AM		71.5
3:00:00 AM		71.5
4:00:00 AM		71.5
5:00:00 AM		71.5
6:00:00 AM		71.5
7:00:00 AM		76.3
8:00:00 AM		76.3
9:00:00 AM		76.3
10:00:00 AM		76.3
11:00:00 AM	76.3	
12:00:00 PM	76.3	
1:00:00 PM	76.3	
2:00:00 PM	76.3	
3:00:00 PM	76.3	
4:00:00 PM	76.3	
5:00:00 PM	76.3	
6:00:00 PM	76.3	
7:00:00 PM	76.3	
8:00:00 PM	76.3	
9:00:00 PM	76.3	
10:00:00 PM	71.5	
11:00:00 PM	71.5	

4/16/2018	9:00:00 AM	Start
4/17/2018	10:00:00 AM	4/16/18 11:00 AM
4/18/2018	11:00:00 AM	End
4/19/2018	12:00:00 PM	4/17/18 11:00 AM
	1:00:00 PM	
	2:00:00 PM	
	3:00:00 PM	

CNEL	79.6
L _{dn}	79.0
24-hr Max.	76.3
24-hr Min.	71.5
24-hr Nighttime Average ^a	71.5
24-hr Nighttime Max	71.5
24-hr Nighttime Min	71.5
24-hr Daytime Average ^a	76.3
24-hr Daytime Max	76.3
24-hr Daytime Min	76.3
Total Period Average	75.0
Total Period Max	76.3
Total Period Min	71.5
Total Period Daytime Average	76.3
Total Period Daytime Max	76.3
Total Period Daytime Min	76.3
Total Period Nighttime Average	71.5
Total Period Nighttime Max	76.3
Total Period Nighttime Min	71.5

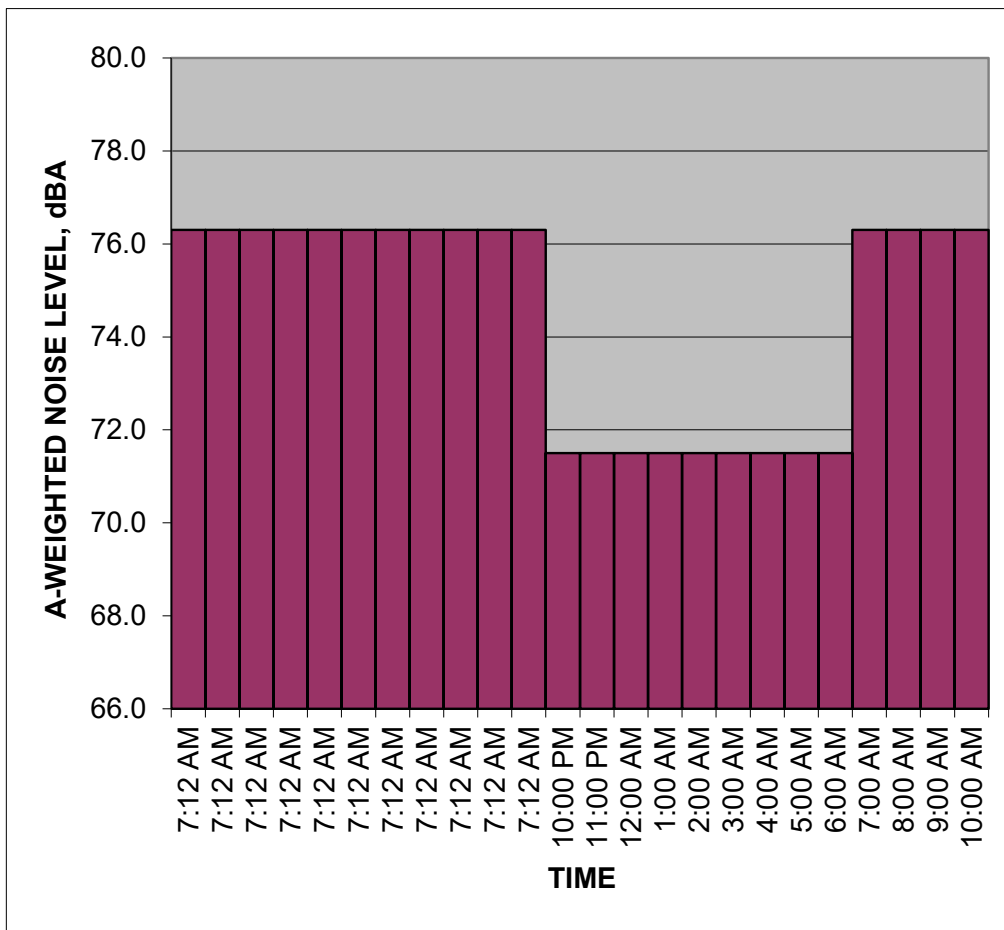
^a Daytime hours are from 7:00 a.m. to 10:00 p.m., and nighttime hours are from 10:00 p.m. to 7:00 a.m.

Measured Ambient Noise Levels

Project: 670 Mesquit
 Location: M5 (R2)
 Sources: Ambient

Date:

TIME	#	HNL, dB(A)
7:12 AM		76.3
7:12 AM		76.3
7:12 AM		76.3
7:12 AM		76.3
7:12 AM		76.3
7:12 AM		76.3
7:12 AM		76.3
7:12 AM		76.3
7:12 AM		76.3
7:12 AM		76.3
7:12 AM		76.3
10:00 PM		71.5
11:00 PM		71.5
12:00 AM		71.5
1:00 AM		71.5
2:00 AM		71.5
3:00 AM		71.5
4:00 AM		71.5
5:00 AM		71.5
6:00 AM		71.5
7:00 AM		76.3
8:00 AM		76.3
9:00 AM		76.3
10:00 AM		76.3
CNEL, dB(A):		79.6



NOTES:

Summary

File Name on Meter M5
 File Name on PC M5
 Serial Number 0004983
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location 670 Mesquit
 Job Description Noise Measurements
 Note

Measurement

Description
 Start 2018-04-16 09:32:00
 Stop 2018-04-16 09:47:00
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0

 Pre Calibration 2018-04-16 09:01:06
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 145.5 dB

	A	C	Z
Under Range Peak	101.7	98.7	103.7 dB
Under Range Limit	50.7	48.7	56.7 dB
Noise Floor	37.6	38.2	45.9 dB

Results

LASeq 76.3 dB
 LASe 105.9 dB
 EAS 4.313 mPa²h
 EAS8 138.024 mPa²h
 EAS40 690.121 mPa²h
 LASpeak (max) 2018-04-16 09:44:12 107.9 dB
 LASmax 2018-04-16 09:36:33 90.1 dB
 LASmin 2018-04-16 09:41:00 61.8 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 7 15.7 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 84.0 dB
 LASeq 76.3 dB
 LCSeq - LASeq 7.7 dB
 LAleq 78.9 dB
 LAeq 76.3 dB
 LAleq - LAeq 2.6 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	76.3					
LS(max)	90.1	2018/04/16 9:36:33				
LS(min)	61.8	2018/04/16 9:41:00				
LPeak(max)	107.9	2018/04/16 9:44:12				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	0.00	0.13 %
Projected Dose	0.02	4.28 %
TWA (Projected)	29.4	67.3 dB
TWA (t)	4.4	42.3 dB
Lep (t)	61.3	61.3 dB

Statistics

LAS5.00	82.0 dB
LAS10.00	80.6 dB
LAS33.30	75.4 dB
LAS50.00	72.4 dB
LAS66.60	69.8 dB
LAS90.00	66.8 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2018-04-16 09:01:06	-51.8	55.1	55.2	61.4
PRMLxT1	2018-04-11 08:39:43	-51.5	55.0	56.6	59.9
PRMLxT1	2018-04-11 08:39:28	-51.5	62.6	58.4	60.7
PRMLxT1	2018-04-02 10:15:45	-50.2	60.5	52.8	50.1
PRMLxT1	2018-03-14 12:42:25	-51.3	46.9	43.6	55.2
PRMLxT1	2018-02-28 11:13:06	-51.2			
PRMLxT1	2018-02-28 10:39:04	-49.1	30.4	48.3	135.3
PRMLxT1	2018-02-28 09:06:48	-49.0			

Summary

File Name on Meter LxT_Data.077
 File Name on PC SLM_0005055_LxT_Data_077.01.ldbin
 Serial Number 0005055
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M5
 Job Description
 Note

Measurement

Description
 Start 2019-03-15 00:26:20
 Stop 2019-03-15 00:41:20
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-15 00:06:18
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT2B
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.2 dB
 Under Range Peak A C Z
 100.5 97.5 102.5 dB
 Under Range Limit 49.5 47.5 55.5 dB
 Noise Floor 36.4 37.0 44.6 dB

Results

LASeq 71.5 dB
 LASe 101.0 dB
 EAS 1.403 mPa²h
 EAS8 44.904 mPa²h
 EAS40 224.518 mPa²h
 LASpeak (max) 2019-03-15 00:41:04 100.9 dB
 LASmax 2019-03-15 00:32:43 85.0 dB
 LASmin 2019-03-15 00:31:48 55.9 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 1 1.3 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 78.7 dB
 LASeq 71.5 dB
 LCSeq - LASeq 7.2 dB
 LAleq 73.5 dB
 LAeq 71.5 dB
 LAleq - LAeq 2.1 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	71.5					
LS(max)	85.0	2019/03/15 0:32:43				
LS(min)	55.9	2019/03/15 0:31:48				
LPeak(max)	100.9	2019/03/15 0:41:04				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-1
Exchange Rate	5	5 dB
Threshold	90	90 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	56.4	56.4 dB

Statistics

LAS5.00	77.7 dB
LAS10.00	75.7 dB
LAS33.30	70.0 dB
LAS50.00	67.0 dB
LAS66.60	63.9 dB
LAS90.00	59.3 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-02-08 02:44:53	-50.9	52.1	55.6	51.6
PRMLxT1	2019-02-08 02:44:37	-50.9	73.5	60.3	59.9
PRMLxT1	2019-02-05 07:45:09	-51.0	49.8	56.6	63.6
PRMLxT1	2019-02-05 07:44:55	-50.9	58.3	56.0	60.2
PRMLxT1	2019-01-29 14:32:10	-50.8	65.5	59.5	50.6
PRMLxT1	2019-01-29 12:39:19	-50.9	51.2	57.7	70.2
PRMLxT1	2019-01-29 12:39:05	-50.9	59.7	56.0	52.6
PRMLxT1	2019-01-23 11:04:11	-50.6	92.9	111.3	89.1
PRMLxT1	2019-01-22 15:09:37	-50.6	74.8	71.6	82.5
PRMLxT1	2019-01-09 14:26:04	-50.7	73.8	83.1	85.0
PRMLxT1	2018-12-20 13:49:01	-50.8	64.4	67.2	66.8
PRMLxT2B	2019-03-15 00:06:18	-50.5	86.3	72.8	75.2
PRMLxT2B	2019-03-01 09:20:02	-50.5	62.4	74.0	72.0
PRMLxT2B	2019-03-01 09:19:44	-50.5	102.5	92.4	115.1

Noise Measurement Data

Project: **670 Mesquit** Location: **M6 (R3)**

04/16/18 04/17/18 04/18/18 04/19/18

Start Date and Time

12:00:00 AM		63.5
1:00:00 AM		63.5
2:00:00 AM		63.5
3:00:00 AM		63.5
4:00:00 AM		63.5
5:00:00 AM		63.5
6:00:00 AM		63.5
7:00:00 AM		76.6
8:00:00 AM		76.6
9:00:00 AM		76.6
10:00:00 AM		76.6
11:00:00 AM	76.6	
12:00:00 PM	76.6	
1:00:00 PM	76.6	
2:00:00 PM	76.6	
3:00:00 PM	76.6	
4:00:00 PM	76.6	
5:00:00 PM	76.6	
6:00:00 PM	76.6	
7:00:00 PM	76.6	
8:00:00 PM	76.6	
9:00:00 PM	76.6	
10:00:00 PM	63.5	
11:00:00 PM	63.5	

4/16/2018	9:00:00 AM	Start
4/17/2018	10:00:00 AM	4/16/18 11:00 AM
4/18/2018	11:00:00 AM	End
4/19/2018	12:00:00 PM	4/17/18 11:00 AM
	1:00:00 PM	
	2:00:00 PM	
	3:00:00 PM	

CNEL	76.9
L _{dn}	75.7
24-hr Max.	76.6
24-hr Min.	63.5
24-hr Nighttime Average ^a	63.5
24-hr Nighttime Max	63.5
24-hr Nighttime Min	63.5
24-hr Daytime Average ^a	76.6
24-hr Daytime Max	76.6
24-hr Daytime Min	76.6
Total Period Average	74.7
Total Period Max	76.6
Total Period Min	63.5
Total Period Daytime Average	76.6
Total Period Daytime Max	76.6
Total Period Daytime Min	76.6
Total Period Nighttime Average	63.5
Total Period Nighttime Max	76.6
Total Period Nighttime Min	63.5

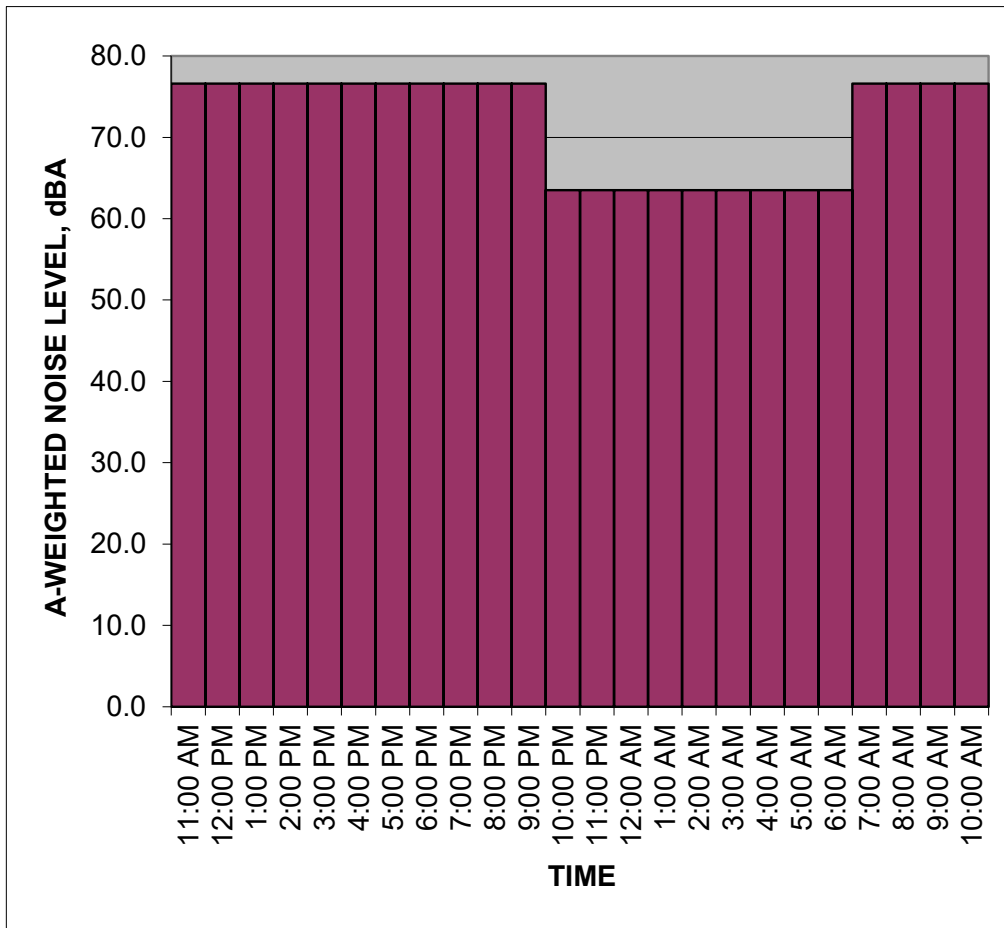
^a Daytime hours are from 7:00 a.m. to 10:00 p.m., and nighttime hours are from 10:00 p.m. to 7:00 a.m.

Measured Ambient Noise Levels

Project: 670 Mesquit
 Location: M6 (R3)
 Sources: Ambient

Date:

TIME	#	HNL,
	#	dB(A)
11:00 AM		76.6
12:00 PM		76.6
1:00 PM		76.6
2:00 PM		76.6
3:00 PM		76.6
4:00 PM		76.6
5:00 PM		76.6
6:00 PM		76.6
7:00 PM		76.6
8:00 PM		76.6
9:00 PM		76.6
10:00 PM		63.5
11:00 PM		63.5
12:00 AM		63.5
1:00 AM		63.5
2:00 AM		63.5
3:00 AM		63.5
4:00 AM		63.5
5:00 AM		63.5
6:00 AM		63.5
7:00 AM		76.6
8:00 AM		76.6
9:00 AM		76.6
10:00 AM		76.6
CNEL, dB(A):		76.9



NOTES:

Summary

File Name on Meter M6
 File Name on PC M6
 Serial Number 0004983
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location 670 Mesquit
 Job Description Noise Measurements
 Note

Measurement

Description
 Start 2018-04-16 09:10:58
 Stop 2018-04-16 09:25:58
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0

 Pre Calibration 2018-04-16 09:01:06
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 145.5 dB

	A	C	Z
Under Range Peak	101.7	98.7	103.7 dB
Under Range Limit	50.7	48.7	56.7 dB
Noise Floor	37.6	38.2	45.9 dB

Results

LASeq 76.6 dB
 LASe 106.1 dB
 EAS 4.567 mPa²h
 EAS8 146.153 mPa²h
 EAS40 730.767 mPa²h
 LAspeak (max) 2018-04-16 09:19:54 104.6 dB
 LAsmax 2018-04-16 09:11:23 86.8 dB
 LAsmin 2018-04-16 09:12:04 66.5 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 1 2.3 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAspeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAspeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAspeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 88.6 dB
 LASeq 76.6 dB
 LCSeq - LASeq 12.0 dB
 LAleq 78.9 dB
 LAeq 76.6 dB
 LAleq - LAeq 2.3 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	76.6					
LS(max)	86.8	2018/04/16 9:11:23				
LS(min)	66.5	2018/04/16 9:12:04				
LPeak(max)	104.6	2018/04/16 9:19:54				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	0.07 %
Projected Dose	-99.9	2.10 %
TWA (Projected)	-99.9	62.1 dB
TWA (t)	-99.9	37.1 dB
Lep (t)	61.5	61.5 dB

Statistics

LAS5.00	80.4 dB
LAS10.00	79.6 dB
LAS33.30	77.1 dB
LAS50.00	75.3 dB
LAS66.60	73.7 dB
LAS90.00	71.1 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2018-04-16 09:01:06	-51.8	55.1	55.2	61.4
PRMLxT1	2018-04-11 08:39:43	-51.5	55.0	56.6	59.9
PRMLxT1	2018-04-11 08:39:28	-51.5	62.6	58.4	60.7
PRMLxT1	2018-04-02 10:15:45	-50.2	60.5	52.8	50.1
PRMLxT1	2018-03-14 12:42:25	-51.3	46.9	43.6	55.2
PRMLxT1	2018-02-28 11:13:06	-51.2			
PRMLxT1	2018-02-28 10:39:04	-49.1	30.4	48.3	135.3
PRMLxT1	2018-02-28 09:06:48	-49.0			

Summary

File Name on Meter LxT_Data.076
 File Name on PC SLM_0005055_LxT_Data_076.01.ldbin
 Serial Number 0005055
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M6
 Job Description
 Note

Measurement

Description
 Start 2019-03-15 00:06:49
 Stop 2019-03-15 00:21:49
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-15 00:06:22
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT2B
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.2 dB
 Under Range Peak **100.5** **A** **C** **Z**
 Under Range Limit **49.5** 97.5 102.5 dB
 Noise Floor 36.4 47.5 55.5 dB
 37.0 44.6 dB

Results

LASeq 63.5 dB
 LASe 93.1 dB
 EAS 224.299 µPa²h
 EAS8 7.178 mPa²h
 EAS40 35.888 mPa²h
 LASpeak (max) 2019-03-15 00:13:19 92.5 dB
 LASmax 2019-03-15 00:13:20 78.7 dB
 LASmin 2019-03-15 00:17:47 51.5 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 72.0 dB
 LASeq 63.5 dB
 LCSeq - LASeq 8.5 dB
 LAleq 65.6 dB
 LAeq 63.5 dB
 LAleq - LAeq 2.1 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	63.5					
LS(max)	78.7	2019/03/15 0:13:20				
LS(min)	51.5	2019/03/15 0:17:47				
LPeak(max)	92.5	2019/03/15 0:13:19				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-1
Exchange Rate	5	5 dB
Threshold	90	90 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	48.5	48.5 dB

Statistics

LAS5.00	70.0 dB
LAS10.00	67.6 dB
LAS33.30	60.6 dB
LAS50.00	57.9 dB
LAS66.60	56.3 dB
LAS90.00	54.2 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-02-08 02:44:53	-50.9	52.1	55.6	51.6
PRMLxT1	2019-02-08 02:44:37	-50.9	73.5	60.3	59.9
PRMLxT1	2019-02-05 07:45:09	-51.0	49.8	56.6	63.6
PRMLxT1	2019-02-05 07:44:55	-50.9	58.3	56.0	60.2
PRMLxT1	2019-01-29 14:32:10	-50.8	65.5	59.5	50.6
PRMLxT1	2019-01-29 12:39:19	-50.9	51.2	57.7	70.2
PRMLxT1	2019-01-29 12:39:05	-50.9	59.7	56.0	52.6
PRMLxT1	2019-01-23 11:04:11	-50.6	92.9	111.3	89.1
PRMLxT1	2019-01-22 15:09:37	-50.6	74.8	71.6	82.5
PRMLxT1	2019-01-09 14:26:04	-50.7	73.8	83.1	85.0
PRMLxT1	2018-12-20 13:49:01	-50.8	64.4	67.2	66.8
PRMLxT2B	2019-03-15 00:06:18	-50.5	86.3	72.8	75.2
PRMLxT2B	2019-03-01 09:20:02	-50.5	62.4	74.0	72.0
PRMLxT2B	2019-03-01 09:19:44	-50.5	102.5	92.4	115.1

Summary

File Name on Meter LxT_Data.060
 File Name on PC SLM_0004285_LxT_Data_060.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M1
 Job Description
 Note

Measurement

Description
 Start 2019-03-23 11:01:18
 Stop 2019-03-23 11:16:18
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-23 10:30:16
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.2 dB
 Under Range Peak **100.4** **A** **C** **Z**
 Under Range Limit **49.4** 97.4 102.4 dB
 Noise Floor 36.3 47.4 55.4 dB
 36.9 44.6 dB

Results

LASeq 71.3 dB
 LASE 100.8 dB
 EAS 1.334 mPa²h
 EAS8 42.703 mPa²h
 EAS40 213.514 mPa²h
 LASpeak (max) 2019-03-23 11:01:48 103.6 dB
 LASmax 2019-03-23 11:10:17 86.4 dB
 LASmin 2019-03-23 11:06:40 63.0 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 1 1.7 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 81.1 dB
 LASeq 71.3 dB
 LCSeq - LASeq 9.9 dB
 LAleq 73.3 dB
 LAeq 71.3 dB
 LAleq - LAeq 2.0 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	71.3					
LS(max)	86.4	2019/03/23 11:10:17				
LS(min)	63.0	2019/03/23 11:06:40				
LPeak(max)	103.6	2019/03/23 11:01:48				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	0.01 %
Projected Dose	-99.9	0.27 %
TWA (Projected)	-99.9	47.3 dB
TWA (t)	-99.9	22.3 dB
Lep (t)	56.2	56.2 dB

Statistics

LAS5.00	75.7 dB
LAS10.00	74.3 dB
LAS33.30	70.7 dB
LAS50.00	68.7 dB
LAS66.60	66.9 dB
LAS90.00	64.6 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.067
 File Name on PC SLM_0004285_LxT_Data_067.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M1
 Job Description
 Note

Measurement

Description
 Start 2019-03-24 00:41:07
 Stop 2019-03-24 00:56:07
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0

 Pre Calibration 2019-03-23 23:59:13
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.3 dB

	A	C	Z
Under Range Peak	100.5	97.5	102.5 dB
Under Range Limit	49.5	47.5	55.5 dB
Noise Floor	36.4	37.0	44.6 dB

Results

LASeq 72.5 dB
 LASe 102.1 dB
 EAS 1.798 mPa²h
 EAS8 57.532 mPa²h
 EAS40 287.659 mPa²h
 LASpeak (max) 2019-03-24 00:46:06 105.5 dB
 LASmax 2019-03-24 00:46:07 94.6 dB
 LASmin 2019-03-24 00:48:42 52.9 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 1 7.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 79.8 dB
 LASeq 72.5 dB
 LCSeq - LASeq 7.3 dB
 LAleq 74.6 dB
 LAeq 72.6 dB
 LAleq - LAeq 2.1 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	72.6					
LS(max)	94.6	2019/03/24 0:46:07				
LS(min)	52.9	2019/03/24 0:48:42				
LPeak(max)	105.5	2019/03/24 0:46:06				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	0.01	0.03 %
Projected Dose	0.42	1.07 %
TWA (Projected)	50.5	57.3 dB
TWA (t)	25.5	32.3 dB
Lep (t)	57.5	57.5 dB

Statistics

LAS5.00	76.4 dB
LAS10.00	74.4 dB
LAS33.30	68.6 dB
LAS50.00	65.3 dB
LAS66.60	61.9 dB
LAS90.00	55.7 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.061
 File Name on PC SLM_0004285_LxT_Data_061.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M2
 Job Description
 Note

Measurement

Description
 Start 2019-03-23 11:28:17
 Stop 2019-03-23 11:43:17
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-23 10:30:16
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.2 dB
 Under Range Peak A C Z
 100.4 97.4 102.4 dB
 Under Range Limit 49.4 47.4 55.4 dB
 Noise Floor 36.3 36.9 44.6 dB

Results

LASeq 68.1 dB
 LASe 97.7 dB
 EAS 646.847 µPa²h
 EAS8 20.699 mPa²h
 EAS40 103.495 mPa²h
 LASpeak (max) 2019-03-23 11:35:42 86.9 dB
 LASmax 2019-03-23 11:43:15 71.0 dB
 LASmin 2019-03-23 11:42:08 64.7 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 83.5 dB
 LASeq 68.1 dB
 LCSeq - LASeq 15.3 dB
 LAleq 68.7 dB
 LAeq 68.1 dB
 LAleq - LAeq 0.6 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	68.1					
LS(max)	71.0	2019/03/23 11:43:15				
LS(min)	64.7	2019/03/23 11:42:08				
LPeak(max)	86.9	2019/03/23 11:35:42				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	53.1	53.1 dB

Statistics

LAS5.00	69.3 dB
LAS10.00	69.1 dB
LAS33.30	68.8 dB
LAS50.00	67.9 dB
LAS66.60	67.4 dB
LAS90.00	66.7 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.068
 File Name on PC SLM_0004285_LxT_Data_068.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M2
 Job Description
 Note

Measurement

Description
 Start 2019-03-24 01:01:11
 Stop 2019-03-24 01:16:11
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-23 23:59:13
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.3 dB
 Under Range Peak **100.5** C 97.5 Z 102.5 dB
 Under Range Limit **49.5** 47.5 55.5 dB
 Noise Floor 36.4 37.0 44.6 dB

Results

LASeq 49.9 dB
 LASe 79.4 dB
 EAS 9.735 µPa²h
 EAS8 311.530 µPa²h
 EAS40 1.558 mPa²h
 LASpeak (max) 2019-03-24 01:15:42 82.0 dB
 LASmax 2019-03-24 01:05:44 63.8 dB
 LASmin 2019-03-24 01:11:11 46.0 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 63.1 dB
 LASeq 49.9 dB
 LCSeq - LASeq 13.2 dB
 LAleq 51.0 dB
 LAeq 49.9 dB
 LAleq - LAeq 1.2 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	49.9					
LS(max)	63.8	2019/03/24 1:05:44				
LS(min)	46.0	2019/03/24 1:11:11				
LPeak(max)	82.0	2019/03/24 1:15:42				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	34.8	34.8 dB

Statistics

LAS5.00	52.6 dB
LAS10.00	50.7 dB
LAS33.30	48.9 dB
LAS50.00	48.2 dB
LAS66.60	47.7 dB
LAS90.00	47.2 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.062
 File Name on PC SLM_0004285_LxT_Data_062.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M3
 Job Description
 Note

Measurement

Description
 Start 2019-03-23 11:52:12
 Stop 2019-03-23 12:07:12
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-23 10:30:16
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.2 dB
 Under Range Peak **100.4** **A** **C** **Z**
 Under Range Limit **49.4** 97.4 102.4 dB
 Noise Floor 36.3 47.4 55.4 dB
 36.9 44.6 dB

Results

LASeq 64.8 dB
 LASe 94.3 dB
 EAS 300.474 µPa²h
 EAS8 9.615 mPa²h
 EAS40 48.076 mPa²h
 LASpeak (max) 2019-03-23 11:55:41 95.4 dB
 LASmax 2019-03-23 11:53:58 79.3 dB
 LASmin 2019-03-23 12:06:39 57.6 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 76.6 dB
 LASeq 64.8 dB
 LCSeq - LASeq 11.8 dB
 LAleq 66.7 dB
 LAeq 64.8 dB
 LAleq - LAeq 1.9 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	64.8					
LS(max)	79.3	2019/03/23 11:53:58				
LS(min)	57.6	2019/03/23 12:06:39				
LPeak(max)	95.4	2019/03/23 11:55:41				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	49.7	49.7 dB

Statistics

LAS5.00	69.4 dB
LAS10.00	65.7 dB
LAS33.30	63.2 dB
LAS50.00	61.4 dB
LAS66.60	59.9 dB
LAS90.00	58.5 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.069
 File Name on PC SLM_0004285_LxT_Data_069.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M3
 Job Description
 Note

Measurement

Description
 Start 2019-03-24 01:18:46
 Stop 2019-03-24 01:33:46
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0

 Pre Calibration 2019-03-23 23:59:13
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.3 dB

	A	C	Z
Under Range Peak	100.5	97.5	102.5 dB
Under Range Limit	49.5	47.5	55.5 dB
Noise Floor	36.4	37.0	44.6 dB

Results

LASeq 47.1 dB
 LASe 76.6 dB
 EAS 5.116 µPa²h
 EAS8 163.709 µPa²h
 EAS40 818.546 µPa²h
 LASpeak (max) 2019-03-24 01:24:29 80.7 dB
 LASmax 2019-03-24 01:33:40 54.7 dB
 LASmin 2019-03-24 01:33:22 44.7 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 60.5 dB
 LASeq 47.1 dB
 LCSeq - LASeq 13.4 dB
 LAleq 47.9 dB
 LAeq 47.1 dB
 LAleq - LAeq 0.8 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	47.1					
LS(max)	54.7	2019/03/24 1:33:40				
LS(min)	44.7	2019/03/24 1:33:22				
LPeak(max)	80.7	2019/03/24 1:24:29				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	32.0	32.0 dB

Statistics

LAS5.00	50.5 dB
LAS10.00	48.0 dB
LAS33.30	46.6 dB
LAS50.00	46.3 dB
LAS66.60	46.0 dB
LAS90.00	45.5 dB

Calibration History

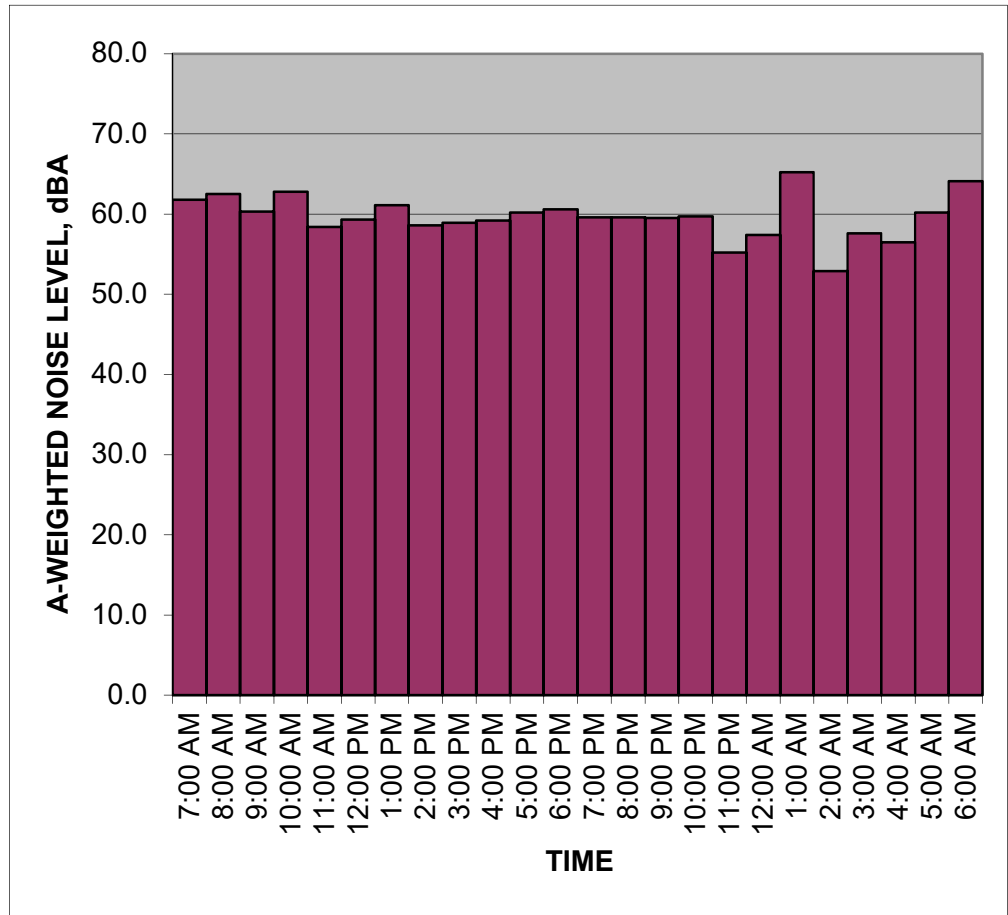
Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Measured Ambient Noise Levels

Project: 670 Mesquit
 Location: M4
 Sources: Ambient

Date: March 23 - 24, 2019

TIME	HNL, dB(A)
7:00 AM	61.8
8:00 AM	62.5
9:00 AM	60.3
10:00 AM	62.8
11:00 AM	58.4
12:00 PM	59.3
1:00 PM	61.1
2:00 PM	58.6
3:00 PM	58.9
4:00 PM	59.2
5:00 PM	60.2
6:00 PM	60.6
7:00 PM	59.6
8:00 PM	59.6
9:00 PM	59.5
10:00 PM	59.7
11:00 PM	55.2
12:00 AM	57.4
1:00 AM	65.2
2:00 AM	52.9
3:00 AM	57.6
4:00 AM	56.5
5:00 AM	60.2
6:00 AM	64.1
CNEL, dB(A):	67.1



NOTES:

Summary

File Name on Meter LxT_Data.005
 File Name on PC SLM_0005055_LxT_Data_005.04.ldbin
 Serial Number 0005055
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M4
 Job Description
 Note

Measurement

Description
 Start 2019-03-22 11:21:12
 Stop 2019-03-25 08:33:34
 Duration 69:12:21.797
 Run Time 69:12:21.797
 Pause 00:00:00.0
 Pre Calibration 2019-03-22 11:17:45
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight Z Weighting
 Detector Slow
 Preamp PRMLxT2B
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.5 dB
 Under Range Peak A C Z
 100.8 97.8 102.8 dB
 Under Range Limit 49.8 47.8 55.8 dB
 Noise Floor 36.6 37.3 44.9 dB

Results

LAseq 60.8 dB
 LASe 114.7 dB
 EAS 33.028 mPa²h
 EAS8 3.818 mPa²h
 EAS40 19.089 mPa²h
 LZspeak (max) 2019-03-23 23:12:39 126.3 dB
 LASmax 2019-03-24 02:19:14 93.0 dB
 LASmin 2019-03-24 02:40:33 48.9 dB
 SEA 136.3 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 22 48.1 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LZspeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LZspeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LZspeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCseq 71.9 dB
 LAseq 60.8 dB
 LCseq - LAseq 11.1 dB
 LAleq 63.5 dB
 LAeq 60.8 dB
 LAleq - LAeq 2.7 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	60.8					
LS(max)	93.0	2019/03/24 2:19:14				
LS(min)	48.9	2019/03/24 2:40:33				
LPeak(max)					126.3	2019/03/23 23:12:39

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name OSHA-1 OSHA-2
 Exchange Rate 5 5 dB
 Threshold 90 80 dB

Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	0.02	0.28 %
Projected Dose	0.00	0.03 %
TWA (Projected)	11.3	31.9 dB
TWA (t)	26.8	47.5 dB
Lep (t)	70.1	70.1 dB

Statistics

LAS5.00	64.6 dB
LAS10.00	61.7 dB
LAS33.30	56.9 dB
LAS50.00	55.3 dB
LAS66.60	54.3 dB
LAS90.00	52.6 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-02-08 02:44:53	-50.9	52.1	55.6	51.6
PRMLxT1	2019-02-08 02:44:37	-50.9	73.5	60.3	59.9
PRMLxT1	2019-02-05 07:45:09	-51.0	49.8	56.6	63.6
PRMLxT1	2019-02-05 07:44:55	-50.9	58.3	56.0	60.2
PRMLxT1	2019-01-29 14:32:10	-50.8	65.5	59.5	50.6
PRMLxT1	2019-01-29 12:39:19	-50.9	51.2	57.7	70.2
PRMLxT1	2019-01-29 12:39:05	-50.9	59.7	56.0	52.6
PRMLxT1	2019-01-23 11:04:11	-50.6	92.9	111.3	89.1
PRMLxT1	2019-01-22 15:09:37	-50.6	74.8	71.6	82.5
PRMLxT1	2019-01-09 14:26:04	-50.7	73.8	83.1	85.0
PRMLxT1	2018-12-20 13:49:01	-50.8	64.4	67.2	66.8
PRMLxT2B	2019-03-22 11:17:43	-50.8	73.0	74.3	60.4
PRMLxT2B	2019-03-20 13:45:34	-50.6	82.8	76.8	89.1
PRMLxT2B	2019-03-20 13:45:19	-50.6	92.6	77.8	71.3
PRMLxT2B	2019-03-15 00:06:18	-50.5	86.3	72.8	75.2
PRMLxT2B	2019-03-01 09:20:02	-50.5	62.4	74.0	72.0
PRMLxT2B	2019-03-01 09:19:44	-50.5	102.5	92.4	115.1

Summary

File Name on Meter LxT_Data.059
 File Name on PC SLM_0004285_LxT_Data_059.00.lbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M5
 Job Description
 Note

Measurement

Description
 Start 2019-03-23 10:41:57
 Stop 2019-03-23 10:56:57
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-23 10:30:18
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.2 dB
 Under Range Peak **100.4** **A** **C** **Z**
 Under Range Limit **49.4** 97.4 102.4 dB
 Noise Floor 36.3 47.4 55.4 dB
 36.9 44.6 dB

Results

LAseq 74.7 dB
 LASe 104.3 dB
 EAS 2.980 mPa²h
 EAS8 95.366 mPa²h
 EAS40 476.831 mPa²h
 LASpeak (max) 2019-03-23 10:56:07 104.6 dB
 LASmax 2019-03-23 10:56:07 90.6 dB
 LASmin 2019-03-23 10:46:56 58.8 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 4 12.5 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 84.3 dB
 LASeq 74.7 dB
 LCSeq - LASeq 9.5 dB
 LAleq 76.8 dB
 LAeq 74.7 dB
 LAleq - LAeq 2.1 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	74.7					
LS(max)	90.6	2019/03/23 10:56:07				
LS(min)	58.8	2019/03/23 10:46:56				
LPeak(max)	104.6	2019/03/23 10:56:07				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	0.00	0.07 %
Projected Dose	0.09	2.17 %
TWA (Projected)	39.7	62.4 dB
TWA (t)	14.7	37.4 dB
Lep (t)	59.7	59.7 dB

Statistics

LAS5.00	80.3 dB
LAS10.00	78.3 dB
LAS33.30	72.9 dB
LAS50.00	70.3 dB
LAS66.60	67.8 dB
LAS90.00	63.2 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.066
 File Name on PC SLM_0004285_LxT_Data_066.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M5
 Job Description
 Note

Measurement

Description
 Start 2019-03-24 00:22:22
 Stop 2019-03-24 00:37:22
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0

 Pre Calibration 2019-03-23 23:59:13
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.3 dB

	A	C	Z
Under Range Peak	100.5	97.5	102.5 dB
Under Range Limit	49.5	47.5	55.5 dB
Noise Floor	36.4	37.0	44.6 dB

Results

LASeq 74.3 dB
 LASe 103.9 dB
 EAS 2.714 mPa²h
 EAS8 86.858 mPa²h
 EAS40 434.288 mPa²h
 LASpeak (max) 2019-03-24 00:33:29 110.3 dB
 LASmax 2019-03-24 00:33:29 95.2 dB
 LASmin 2019-03-24 00:36:13 53.9 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 1 6.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 82.4 dB
 LASeq 74.3 dB
 LCSeq - LASeq 8.0 dB
 LAleq 77.4 dB
 LAeq 74.3 dB
 LAleq - LAeq 3.1 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	74.3					
LS(max)	95.2	2019/03/24 0:33:29				
LS(min)	53.9	2019/03/24 0:36:13				
LPeak(max)	110.3	2019/03/24 0:33:29				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	0.01	0.04 %
Projected Dose	0.38	1.32 %
TWA (Projected)	49.9	58.8 dB
TWA (t)	24.9	33.8 dB
Lep (t)	59.3	59.3 dB

Statistics

LAS5.00	79.1 dB
LAS10.00	77.6 dB
LAS33.30	72.7 dB
LAS50.00	69.4 dB
LAS66.60	65.8 dB
LAS90.00	58.0 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.064
 File Name on PC SLM_0004285_LxT_Data_064.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M6
 Job Description
 Note

Measurement

Description
 Start 2019-03-23 12:14:48
 Stop 2019-03-23 12:29:48
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-23 10:30:16
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.2 dB
 Under Range Peak **100.4** A C Z
 Under Range Limit **49.4** 97.4 102.4 dB
 Noise Floor 36.3 47.4 55.4 dB
 36.9 44.6 dB

Results

LAseq 68.6 dB
 LASe 98.2 dB
 EAS 732.283 µPa²h
 EAS8 23.433 mPa²h
 EAS40 117.165 mPa²h
 LASpeak (max) 2019-03-23 12:18:06 103.4 dB
 LASmax 2019-03-23 12:18:06 88.1 dB
 LASmin 2019-03-23 12:14:52 57.5 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 2 4.1 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 77.8 dB
 LASeq 68.6 dB
 LCSeq - LASeq 9.1 dB
 LAleq 71.2 dB
 LAeq 68.6 dB
 LAleq - LAeq 2.6 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	68.6					
LS(max)	88.1	2019/03/23 12:18:06				
LS(min)	57.5	2019/03/23 12:14:52				
LPeak(max)	103.4	2019/03/23 12:18:06				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	0.02 %
Projected Dose	-99.9	0.50 %
TWA (Projected)	-99.9	51.8 dB
TWA (t)	-99.9	26.8 dB
Lep (t)	53.6	53.6 dB

Statistics

LAS5.00	72.0 dB
LAS10.00	70.4 dB
LAS33.30	65.6 dB
LAS50.00	63.4 dB
LAS66.60	61.4 dB
LAS90.00	59.0 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.065
 File Name on PC SLM_0004285_LxT_Data_065.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M6
 Job Description
 Note

Measurement

Description
 Start 2019-03-24 00:02:44
 Stop 2019-03-24 00:17:44
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0

 Pre Calibration 2019-03-23 23:59:13
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.3 dB

	A	C	Z
Under Range Peak	100.5	97.5	102.5 dB
Under Range Limit	49.5	47.5	55.5 dB
Noise Floor	36.4	37.0	44.6 dB

Results

LASeq 71.3 dB
 LASe 100.8 dB
 EAS 1.351 mPa²h
 EAS8 43.217 mPa²h
 EAS40 216.083 mPa²h
 LASpeak (max) 2019-03-24 00:06:44 113.0 dB
 LASmax 2019-03-24 00:06:44 88.8 dB
 LASmin 2019-03-24 00:17:13 51.3 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 6 7.8 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 78.6 dB
 LASeq 71.3 dB
 LCSeq - LASeq 7.3 dB
 LAleq 81.6 dB
 LAeq 71.3 dB
 LAleq - LAeq 10.3 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	71.3					
LS(max)	88.8	2019/03/24 0:06:44				
LS(min)	51.3	2019/03/24 0:17:13				
LPeak(max)	113.0	2019/03/24 0:06:44				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	0.04 %
Projected Dose	-99.9	1.31 %
TWA (Projected)	-99.9	58.7 dB
TWA (t)	-99.9	33.7 dB
Lep (t)	56.3	56.3 dB

Statistics

LAS5.00	78.9 dB
LAS10.00	74.5 dB
LAS33.30	64.7 dB
LAS50.00	60.4 dB
LAS66.60	57.5 dB
LAS90.00	54.1 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.071
 File Name on PC SLM_0004285_LxT_Data_071.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M1
 Job Description
 Note

Measurement

Description
 Start 2019-03-24 10:28:58
 Stop 2019-03-24 10:43:58
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-24 10:07:24
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.3 dB
 Under Range Peak A C Z
 100.5 97.5 102.5 dB
 Under Range Limit 49.5 47.5 55.5 dB
 Noise Floor 36.3 37.0 44.6 dB

Results

LASeq 75.6 dB
 LASE 105.1 dB
 EAS 3.631 mPa²h
 EAS8 116.182 mPa²h
 EAS40 580.909 mPa²h
 LASpeak (max) 2019-03-24 10:39:48 115.9 dB
 LASmax 2019-03-24 10:39:48 97.6 dB
 LASmin 2019-03-24 10:29:57 54.5 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 1 8.5 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 82.8 dB
 LASeq 75.6 dB
 LCSeq - LASeq 7.2 dB
 LAleq 78.3 dB
 LAeq 75.6 dB
 LAleq - LAeq 2.7 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	75.6					
LS(max)	97.6	2019/03/24 10:39:48				
LS(min)	54.5	2019/03/24 10:29:57				
LPeak(max)	115.9	2019/03/24 10:39:48				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	0.03	0.05 %
Projected Dose	1.02	1.68 %
TWA (Projected)	56.9	60.5 dB
TWA (t)	31.9	35.5 dB
Lep (t)	60.5	60.5 dB

Statistics

LAS5.00	78.3 dB
LAS10.00	76.9 dB
LAS33.30	72.4 dB
LAS50.00	70.1 dB
LAS66.60	67.1 dB
LAS90.00	60.8 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-24 10:07:24	-50.5	64.9	69.3	65.8
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.077
File Name on PC SLM_0004285_LxT_Data_077.00.ldbin
Serial Number 0004285
Model SoundTrack LxT®
Firmware Version 2.302
User
Location M1
Job Description
Note

Measurement

Description
Start 2019-03-25 00:29:23
Stop 2019-03-25 00:44:23
Duration 00:15:00.0
Run Time 00:15:00.0
Pause 00:00:00.0

Pre Calibration 2019-03-24 23:52:24
Post Calibration None
Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
Peak Weight A Weighting
Detector Slow
Preamp PRMLxT1
Microphone Correction Off
Integration Method Exponential
Overload 144.5 dB

	A	C	Z
Under Range Peak	100.7	97.7	102.7 dB
Under Range Limit	49.7	47.7	55.7 dB
Noise Floor	36.5	37.2	44.8 dB

Results

LASeq 69.1 dB
LASE 98.7 dB
EAS 818.984 $\mu\text{Pa}^2\text{h}$
EAS8 26.207 mPa^2h
EAS40 131.037 mPa^2h
LASpeak (max) 2019-03-25 00:31:17 96.8 dB
LASmax 2019-03-25 00:41:06 81.2 dB
LASmin 2019-03-25 00:32:56 51.0 dB
SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 78.0 dB
LASeq 69.1 dB
LCSeq - LASeq 8.9 dB
LAleq 70.5 dB
LAeq 69.1 dB
LAleq - LAeq 1.4 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	69.1					
LS(max)	81.2	2019/03/25 0:41:06				
LS(min)	51.0	2019/03/25 0:32:56				
LPeak(max)	96.8	2019/03/25 0:31:17				

Overloads 0
Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	0.00 %
Projected Dose	-99.9	0.15 %
TWA (Projected)	-99.9	43.2 dB
TWA (t)	-99.9	18.2 dB
Lep (t)	54.1	54.1 dB

Statistics

LAS5.00	75.9 dB
LAS10.00	73.1 dB
LAS33.30	67.1 dB
LAS50.00	63.2 dB
LAS66.60	59.5 dB
LAS90.00	54.0 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-24 23:52:24	-50.7	59.0	59.4	70.1
PRMLxT1	2019-03-24 23:52:04	-50.8	71.7	67.2	81.5
PRMLxT1	2019-03-24 23:51:49	-50.7	99.9	100.7	91.7
PRMLxT1	2019-03-24 10:07:24	-50.5	64.9	69.3	65.8
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.073
 File Name on PC SLM_0004285_LxT_Data_073.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M2
 Job Description
 Note

Measurement

Description
 Start 2019-03-24 11:05:47
 Stop 2019-03-24 11:20:47
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-24 10:07:24
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.3 dB
 Under Range Peak **100.5** A C Z
 Under Range Limit **49.5** 97.5 102.5 dB
 Noise Floor 36.3 47.5 55.5 dB
 37.0 44.6 dB

Results

LASeq 58.6 dB
 LASE 88.1 dB
 EAS 71.911 µPa²h
 EAS8 2.301 mPa²h
 EAS40 11.506 mPa²h
 LASpeak (max) 2019-03-24 11:16:24 86.7 dB
 LASmax 2019-03-24 11:11:19 71.0 dB
 LASmin 2019-03-24 11:16:10 52.2 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 74.5 dB
 LASeq 58.6 dB
 LCSeq - LASeq 15.9 dB
 LAleq 60.6 dB
 LAeq 58.6 dB
 LAleq - LAeq 2.1 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	58.6					
LS(max)	71.0	2019/03/24 11:11:19				
LS(min)	52.2	2019/03/24 11:16:10				
LPeak(max)	86.7	2019/03/24 11:16:24				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	43.5	43.5 dB

Statistics

LAS5.00	64.2 dB
LAS10.00	61.2 dB
LAS33.30	56.7 dB
LAS50.00	55.5 dB
LAS66.60	54.7 dB
LAS90.00	53.5 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-24 10:07:24	-50.5	64.9	69.3	65.8
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.078
 File Name on PC SLM_0004285_LxT_Data_078.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M2
 Job Description
 Note

Measurement

Description
 Start 2019-03-25 00:48:52
 Stop 2019-03-25 01:03:52
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-24 23:52:24
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.5 dB
 Under Range Peak **100.7** **A** **C** **Z**
 Under Range Limit **49.7** 97.7 102.7 dB
 Noise Floor 36.5 47.7 55.7 dB
 37.2 44.8 dB

Results

LASeq 67.9 dB
 LASe 97.4 dB
 EAS 611.856 µPa²h
 EAS8 19.579 mPa²h
 EAS40 97.897 mPa²h
 LASpeak (max) 2019-03-25 00:57:42 89.2 dB
 LASmax 2019-03-25 00:57:42 70.9 dB
 LASmin 2019-03-25 00:48:54 67.1 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 80.6 dB
 LASeq 67.9 dB
 LCSeq - LASeq 12.7 dB
 LAleq 68.4 dB
 LAeq 67.9 dB
 LAleq - LAeq 0.5 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	67.9					
LS(max)	70.9	2019/03/25 0:57:42				
LS(min)	67.1	2019/03/25 0:48:54				
LPeak(max)	89.2	2019/03/25 0:57:42				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	52.8	52.8 dB

Statistics

LAS5.00	68.2 dB
LAS10.00	68.1 dB
LAS33.30	67.9 dB
LAS50.00	67.9 dB
LAS66.60	67.8 dB
LAS90.00	67.6 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-24 23:52:24	-50.7	59.0	59.4	70.1
PRMLxT1	2019-03-24 23:52:04	-50.8	71.7	67.2	81.5
PRMLxT1	2019-03-24 23:51:49	-50.7	99.9	100.7	91.7
PRMLxT1	2019-03-24 10:07:24	-50.5	64.9	69.3	65.8
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.074
 File Name on PC SLM_0004285_LxT_Data_074.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M3
 Job Description
 Note

Measurement

Description
 Start 2019-03-24 11:23:11
 Stop 2019-03-24 11:38:11
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-24 10:07:24
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.3 dB
 Under Range Peak **100.5** A C Z
 Under Range Limit **49.5** 97.5 102.5 dB
 Noise Floor 36.3 47.5 55.5 dB
 37.0 44.6 dB

Results

LASeq 65.9 dB
 LASE 95.5 dB
 EAS 393.478 µPa²h
 EAS8 12.591 mPa²h
 EAS40 62.956 mPa²h
 LASpeak (max) 2019-03-24 11:33:37 96.8 dB
 LASmax 2019-03-24 11:33:37 76.1 dB
 LASmin 2019-03-24 11:35:24 64.6 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 79.9 dB
 LASeq 65.9 dB
 LCSeq - LASeq 13.9 dB
 LAleq 68.2 dB
 LAeq 65.9 dB
 LAleq - LAeq 2.2 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	65.9					
LS(max)	76.1	2019/03/24 11:33:37				
LS(min)	64.6	2019/03/24 11:35:24				
LPeak(max)	96.8	2019/03/24 11:33:37				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	50.9	50.9 dB

Statistics

LAS5.00	67.3 dB
LAS10.00	66.3 dB
LAS33.30	65.7 dB
LAS50.00	65.5 dB
LAS66.60	65.3 dB
LAS90.00	65.1 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-24 10:07:24	-50.5	64.9	69.3	65.8
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.079
 File Name on PC SLM_0004285_LxT_Data_079.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M3
 Job Description
 Note

Measurement

Description
 Start 2019-03-25 01:05:18
 Stop 2019-03-25 01:20:18
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-24 23:52:24
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.5 dB
 Under Range Peak **A** **C** **Z**
 Under Range Limit **100.7** 97.7 102.7 dB
 Noise Floor **49.7** 47.7 55.7 dB
 36.5 37.2 44.8 dB

Results

LASeq 63.9 dB
 LASe 93.4 dB
 EAS 242.871 µPa²h
 EAS8 7.772 mPa²h
 EAS40 38.859 mPa²h
 LASpeak (max) 2019-03-25 01:10:23 88.1 dB
 LASmax 2019-03-25 01:10:23 68.4 dB
 LASmin 2019-03-25 01:05:18 62.1 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 86.7 dB
 LASeq 63.9 dB
 LCSeq - LASeq 22.9 dB
 LAleq 64.4 dB
 LAeq 63.9 dB
 LAleq - LAeq 0.5 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	63.9					
LS(max)	68.4	2019/03/25 1:10:23				
LS(min)	62.1	2019/03/25 1:05:18				
LPeak(max)	88.1	2019/03/25 1:10:23				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	48.8	48.8 dB

Statistics

LAS5.00	64.1 dB
LAS10.00	64.0 dB
LAS33.30	63.9 dB
LAS50.00	63.8 dB
LAS66.60	63.8 dB
LAS90.00	63.6 dB

Calibration History

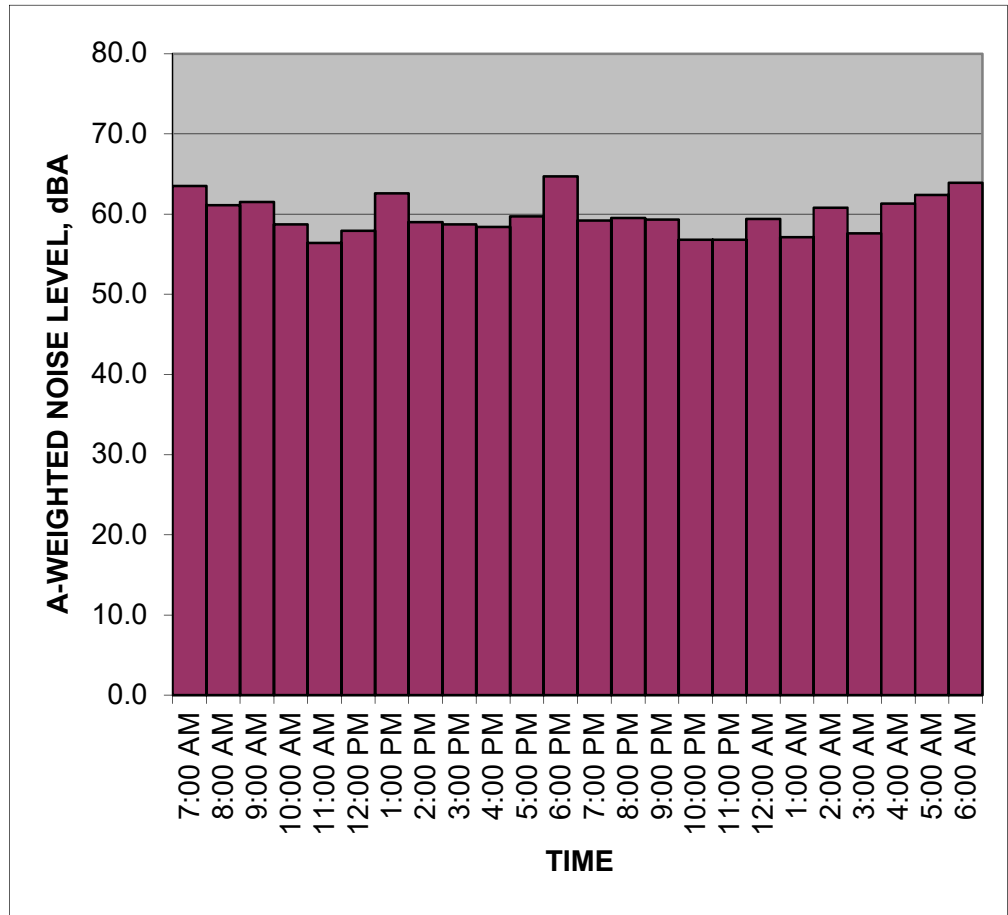
Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-24 23:52:24	-50.7	59.0	59.4	70.1
PRMLxT1	2019-03-24 23:52:04	-50.8	71.7	67.2	81.5
PRMLxT1	2019-03-24 23:51:49	-50.7	99.9	100.7	91.7
PRMLxT1	2019-03-24 10:07:24	-50.5	64.9	69.3	65.8
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Measured Ambient Noise Levels

Project: 670 Mesquit
 Location: M4
 Sources: Ambient

Date: March 24 -25, 2019

TIME	HNL, dB(A)
7:00 AM	63.5
8:00 AM	61.1
9:00 AM	61.5
10:00 AM	58.7
11:00 AM	56.4
12:00 PM	57.9
1:00 PM	62.6
2:00 PM	59.0
3:00 PM	58.7
4:00 PM	58.4
5:00 PM	59.7
6:00 PM	64.7
7:00 PM	59.2
8:00 PM	59.5
9:00 PM	59.3
10:00 PM	56.8
11:00 PM	56.8
12:00 AM	59.4
1:00 AM	57.1
2:00 AM	60.8
3:00 AM	57.6
4:00 AM	61.3
5:00 AM	62.4
6:00 AM	63.9
CNEL, dB(A):	67.0



NOTES:

Summary

File Name on Meter LxT_Data.005
 File Name on PC SLM_0005055_LxT_Data_005.04.ldbin
 Serial Number 0005055
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M4
 Job Description
 Note

Measurement

Description
 Start 2019-03-22 11:21:12
 Stop 2019-03-25 08:33:34
 Duration 69:12:21.797
 Run Time 69:12:21.797
 Pause 00:00:00.0
 Pre Calibration 2019-03-22 11:17:45
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight Z Weighting
 Detector Slow
 Preamp PRMLxT2B
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.5 dB
 A **C** **Z**
 Under Range Peak 100.8 97.8 **102.8** dB
 Under Range Limit **49.8** 47.8 55.8 dB
 Noise Floor 36.6 37.3 44.9 dB

Results

L_Aseq 60.8 dB
 L_ASE 114.7 dB
 EAS 33.028 mPa²h
 EAS8 3.818 mPa²h
 EAS40 19.089 mPa²h
 LZ_{Speak} (max) 2019-03-23 23:12:39 126.3 dB
 L_AS_{max} 2019-03-24 02:19:14 93.0 dB
 L_AS_{min} 2019-03-24 02:40:33 48.9 dB
 SEA 136.3 dB

L_AS > 85.0 dB (Exceedance Counts / Duration) 22 48.1 s
 L_AS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LZ_{Speak} > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LZ_{Speak} > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LZ_{Speak} > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LC_{Seq} 71.9 dB
 L_ASeq 60.8 dB
 LC_{Seq} - L_ASeq 11.1 dB
 L_AI_{eq} 63.5 dB
 L_Aeq 60.8 dB
 L_AI_{eq} - L_Aeq 2.7 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
L _{eq}	60.8					
L _S (max)	93.0	2019/03/24 2:19:14				
L _S (min)	48.9	2019/03/24 2:40:33				
L _{Peak} (max)					126.3	2019/03/23 23:12:39

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name OSHA-1 OSHA-2
 Exchange Rate 5 5 dB
 Threshold 90 80 dB

Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	0.02	0.28 %
Projected Dose	0.00	0.03 %
TWA (Projected)	11.3	31.9 dB
TWA (t)	26.8	47.5 dB
Lep (t)	70.1	70.1 dB

Statistics

LAS5.00	64.6 dB
LAS10.00	61.7 dB
LAS33.30	56.9 dB
LAS50.00	55.3 dB
LAS66.60	54.3 dB
LAS90.00	52.6 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-02-08 02:44:53	-50.9	52.1	55.6	51.6
PRMLxT1	2019-02-08 02:44:37	-50.9	73.5	60.3	59.9
PRMLxT1	2019-02-05 07:45:09	-51.0	49.8	56.6	63.6
PRMLxT1	2019-02-05 07:44:55	-50.9	58.3	56.0	60.2
PRMLxT1	2019-01-29 14:32:10	-50.8	65.5	59.5	50.6
PRMLxT1	2019-01-29 12:39:19	-50.9	51.2	57.7	70.2
PRMLxT1	2019-01-29 12:39:05	-50.9	59.7	56.0	52.6
PRMLxT1	2019-01-23 11:04:11	-50.6	92.9	111.3	89.1
PRMLxT1	2019-01-22 15:09:37	-50.6	74.8	71.6	82.5
PRMLxT1	2019-01-09 14:26:04	-50.7	73.8	83.1	85.0
PRMLxT1	2018-12-20 13:49:01	-50.8	64.4	67.2	66.8
PRMLxT2B	2019-03-22 11:17:43	-50.8	73.0	74.3	60.4
PRMLxT2B	2019-03-20 13:45:34	-50.6	82.8	76.8	89.1
PRMLxT2B	2019-03-20 13:45:19	-50.6	92.6	77.8	71.3
PRMLxT2B	2019-03-15 00:06:18	-50.5	86.3	72.8	75.2
PRMLxT2B	2019-03-01 09:20:02	-50.5	62.4	74.0	72.0
PRMLxT2B	2019-03-01 09:19:44	-50.5	102.5	92.4	115.1

Summary

File Name on Meter LxT_Data.072
 File Name on PC SLM_0004285_LxT_Data_072.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M5
 Job Description
 Note

Measurement

Description
 Start 2019-03-24 10:45:29
 Stop 2019-03-24 11:00:29
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-24 10:07:24
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.3 dB
 Under Range Peak A C Z
 100.5 97.5 102.5 dB
 Under Range Limit 49.5 47.5 55.5 dB
 Noise Floor 36.3 37.0 44.6 dB

Results

LASeq 73.7 dB
 LASE 103.2 dB
 EAS 2.324 mPa²h
 EAS8 74.360 mPa²h
 EAS40 371.798 mPa²h
 LASpeak (max) 2019-03-24 10:58:03 112.9 dB
 LASmax 2019-03-24 10:58:03 94.3 dB
 LASmin 2019-03-24 10:48:06 54.3 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 3 8.4 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 81.1 dB
 LASeq 73.7 dB
 LCSeq - LASeq 7.4 dB
 LAleq 77.2 dB
 LAeq 73.7 dB
 LAleq - LAeq 3.5 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	73.7					
LS(max)	94.3	2019/03/24 10:58:03				
LS(min)	54.3	2019/03/24 10:48:06				
LPeak(max)	112.9	2019/03/24 10:58:03				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	0.01	0.04 %
Projected Dose	0.30	1.31 %
TWA (Projected)	48.2	58.7 dB
TWA (t)	23.2	33.7 dB
Lep (t)	58.6	58.6 dB

Statistics

LAS5.00	78.3 dB
LAS10.00	76.1 dB
LAS33.30	71.6 dB
LAS50.00	69.5 dB
LAS66.60	66.8 dB
LAS90.00	61.3 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-24 10:07:24	-50.5	64.9	69.3	65.8
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.076
 File Name on PC SLM_0004285_LxT_Data_076.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M5
 Job Description
 Note

Measurement

Description
 Start 2019-03-25 00:10:46
 Stop 2019-03-25 00:25:46
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-24 23:52:24
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.5 dB
 Under Range Peak **100.7** **A** **C** **Z**
 Under Range Limit **49.7** 97.7 102.7 dB
 Noise Floor 36.5 47.7 55.7 dB
 37.2 44.8 dB

Results

LASeq 70.2 dB
 LASe 99.7 dB
 EAS 1.042 mPa²h
 EAS8 33.354 mPa²h
 EAS40 166.768 mPa²h
 LASpeak (max) 2019-03-25 00:14:06 100.9 dB
 LASmax 2019-03-25 00:16:16 83.8 dB
 LASmin 2019-03-25 00:13:24 52.7 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 78.9 dB
 LASeq 70.2 dB
 LCSeq - LASeq 8.7 dB
 LAleq 72.1 dB
 LAeq 70.2 dB
 LAleq - LAeq 1.9 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	70.2					
LS(max)	83.8	2019/03/25 0:16:16				
LS(min)	52.7	2019/03/25 0:13:24				
LPeak(max)	100.9	2019/03/25 0:14:06				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	0.02 %
Projected Dose	-99.9	0.49 %
TWA (Projected)	-99.9	51.7 dB
TWA (t)	-99.9	26.7 dB
Lep (t)	55.1	55.1 dB

Statistics

LAS5.00	76.9 dB
LAS10.00	74.3 dB
LAS33.30	67.4 dB
LAS50.00	63.4 dB
LAS66.60	60.1 dB
LAS90.00	55.6 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-24 23:52:24	-50.7	59.0	59.4	70.1
PRMLxT1	2019-03-24 23:52:04	-50.8	71.7	67.2	81.5
PRMLxT1	2019-03-24 23:51:49	-50.7	99.9	100.7	91.7
PRMLxT1	2019-03-24 10:07:24	-50.5	64.9	69.3	65.8
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.070
 File Name on PC SLM_0004285_LxT_Data_070.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M6
 Job Description
 Note

Measurement

Description
 Start 2019-03-24 10:11:33
 Stop 2019-03-24 10:26:33
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-24 10:07:26
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.3 dB
 Under Range Peak **100.5** A C Z
 Under Range Limit **49.5** 97.5 102.5 dB
 Noise Floor 36.3 47.5 55.5 dB
 37.0 44.6 dB

Results

LAseq 65.1 dB
 LASe 94.6 dB
 EAS 321.780 µPa²h
 EAS8 10.297 mPa²h
 EAS40 51.485 mPa²h
 LASpeak (max) 2019-03-24 10:12:12 101.5 dB
 LASmax 2019-03-24 10:22:52 78.2 dB
 LASmin 2019-03-24 10:16:12 52.1 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 74.4 dB
 LASeq 65.1 dB
 LCSeq - LASeq 9.3 dB
 LAleq 68.6 dB
 LAeq 65.1 dB
 LAleq - LAeq 3.5 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	65.1					
LS(max)	78.2	2019/03/24 10:22:52				
LS(min)	52.1	2019/03/24 10:16:12				
LPeak(max)	101.5	2019/03/24 10:12:12				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	50.0	50.0 dB

Statistics

LAS5.00	71.5 dB
LAS10.00	69.7 dB
LAS33.30	63.2 dB
LAS50.00	58.8 dB
LAS66.60	55.8 dB
LAS90.00	53.6 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-24 10:07:24	-50.5	64.9	69.3	65.8
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT1	2019-03-14 08:06:52	-50.9	54.5	54.6	60.1
PRMLxT1	2019-03-14 08:06:35	-50.9	46.1	54.7	48.6
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Summary

File Name on Meter LxT_Data.075
 File Name on PC SLM_0004285_LxT_Data_075.00.ldbin
 Serial Number 0004285
 Model SoundTrack LxT®
 Firmware Version 2.302
 User
 Location M6
 Job Description
 Note

Measurement

Description
 Start 2019-03-24 23:52:41
 Stop 2019-03-25 00:07:41
 Duration 00:15:00.0
 Run Time 00:15:00.0
 Pause 00:00:00.0
 Pre Calibration 2019-03-24 23:52:25
 Post Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamp PRMLxT1
 Microphone Correction Off
 Integration Method Exponential
 Overload 144.5 dB
 Under Range Peak **100.7** **A** **C** **Z**
 Under Range Limit **49.7** 97.7 102.7 dB
 Noise Floor 36.5 47.7 55.7 dB
 37.2 44.8 dB

Results

LASeq 63.3 dB
 LASE 92.8 dB
 EAS 213.128 µPa²h
 EAS8 6.820 mPa²h
 EAS40 34.101 mPa²h
 LASpeak (max) 2019-03-25 00:06:37 103.6 dB
 LASmax 2019-03-25 00:06:09 82.2 dB
 LASmin 2019-03-25 00:03:51 47.5 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LASpeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

LCSeq 71.5 dB
 LASeq 63.3 dB
 LCSeq - LASeq 8.2 dB
 LAleq 70.2 dB
 LAeq 63.3 dB
 LAleq - LAeq 6.9 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	63.3					
LS(max)	82.2	2019/03/25 0:06:09				
LS(min)	47.5	2019/03/25 0:03:51				
LPeak(max)	103.6	2019/03/25 0:06:37				

Overloads 0
 Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	0.00 %
Projected Dose	-99.9	0.05 %
TWA (Projected)	-99.9	34.9 dB
TWA (t)	-99.9	9.9 dB
Lep (t)	48.2	48.2 dB

Statistics

LAS5.00	69.0 dB
LAS10.00	65.1 dB
LAS33.30	56.7 dB
LAS50.00	53.5 dB
LAS66.60	51.6 dB
LAS90.00	49.6 dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRMLxT1	2019-03-24 23:52:24	-50.7	59.0	59.4	70.1
PRMLxT1	2019-03-24 23:52:04	-50.8	71.7	67.2	81.5
PRMLxT1	2019-03-24 23:51:49	-50.7	99.9	100.7	91.7
PRMLxT1	2019-03-24 10:07:24	-50.5	64.9	69.3	65.8
PRMLxT1	2019-03-23 23:59:13	-50.5	64.6	57.0	66.4
PRMLxT1	2019-03-23 23:58:57	-50.5	68.2	72.1	71.0
PRMLxT1	2019-03-23 10:30:16	-50.5	62.2	58.1	52.7
PRMLxT1	2019-03-23 10:29:47	-50.5	64.2	59.1	67.5
PRMLxT1	2019-03-23 10:29:07	-50.5	64.1	68.6	70.5
PRMLxT1	2019-03-15 10:32:38	-50.7	64.2	57.8	63.7
PRMLxT1	2019-03-15 10:32:16	-50.7	51.7	60.7	65.2
PRMLxT2B	2019-02-05 13:34:55	-50.7	66.6	74.3	64.6
PRMLxT2B	2019-02-05 13:34:40	-50.7	76.6	69.8	82.9
PRMLxT2B	2019-01-30 09:27:47	-49.7	58.3	55.1	53.6
PRMLxT2B	2019-01-30 09:27:31	-49.7	63.0	63.8	66.1
PRMLxT2B	2019-01-28 13:53:55	-50.7	52.3	53.3	56.8
PRMLxT2B	2019-01-28 13:53:41	-50.8	52.6	59.2	55.4
PRMLxT2B	2019-01-25 07:56:02	-50.3	65.9	65.7	74.7
PRMLxT2B	2019-01-23 11:01:12	-50.5	79.9	78.4	69.7
PRMLxT2B	2019-01-22 10:31:48	-50.4	67.2	74.3	71.6
PRMLxT2B	2019-01-22 10:31:33	-50.4	59.4	63.5	74.7
PRMLxT2B	2018-10-25 21:55:34	-50.8	70.0	78.5	63.7

Construction Noise Calculations

ESTIMATE OF CONSTRUCTION NOISE LEVELS (L_{EQ}) AT OFF-SITE SENSITIVE RECEPTOR LOCATIONS - UNMITIGATED

Receptor	Construction Stage	Nearest Distance to Sensitive Receptor (ft) ^a	Construction Noise Level at Receptor (Leq)	Weekday				Saturday				Sunday			
				Daytime Threshold ^b	Exceed ?	Nighttime Threshold ^b	Exceed?	Daytime Threshold ^b	Exceed?	Nighttime Threshold ^b	Exceed?	Daytime Threshold ^b	Exceed?	Nighttime Threshold ^b	Exceed?
<i>Individual Construction Stages</i>															
R1	Site Preparation/Demolition	5	109	75.7	Yes	72.5	Yes	76.3	Yes	77.6	Yes	80.6	Yes	74.1	Yes
	Grading/Excavation		102		Yes		Yes		Yes		Yes				
	Drainage/Utilities/Trenching		104		Yes		Yes		Yes		Yes				
	Foundation/Concrete Pour		98		Yes		Yes		Yes		Yes				
	Building Construction/Architectural Coating		106		Yes		Yes		Yes		Yes				
	Paving		106		Yes		Yes		Yes		Yes				
R2 ^c	Site Preparation/Demolition	130	77	81.3	No	76.5	Yes	79.7	No	79.3	No	78.7	No	75.2	Yes
	Grading/Excavation		71		No		No		No		No				
	Drainage/Utilities/Trenching		71		No		No		No		No				
	Foundation/Concrete Pour		70		No		No		No		No				
	Building Construction/Architectural Coating		74		No		No		No		No				
	Paving		74		No		No		No		No				
R3 ^c	Site Preparation/Demolition	180	74	81.6	No	68.5	Yes	73.6	Yes	76.3	No	70.1	Yes	68.3	Yes
	Grading/Excavation		69		No		Yes		No		No				
	Drainage/Utilities/Trenching		68		No		No		No		No				
	Foundation/Concrete Pour		68		No		No		No		No				
	Building Construction/Architectural Coating		72		No		Yes		No		No				
	Paving		71		No		Yes		No		No				
R4	Site Preparation/Demolition	5	109	71.6	Yes	68.8	Yes	69.8	Yes	52.1	Yes	70.9	Yes	68.9	Yes
	Grading/Excavation		102		Yes		Yes		Yes		Yes				
	Drainage/Utilities/Trenching		104		Yes		Yes		Yes		Yes				
	Foundation/Concrete Pour		98		Yes		Yes		Yes		Yes				
	Building Construction/Architectural Coating		106		Yes		Yes		Yes		Yes				
	Paving		106		Yes		Yes		Yes		Yes				
<i>Overlapping Construction Stages</i>															
R1	Site Preparation/Demolition + Drainage/Utilities/ Trenching	5	110	75.7	Yes	72.5	Yes	76.3	Yes	77.6	Yes	80.6	Yes	74.1	Yes
	Site Preparation/Demolition + Drainage/Utilities/Trenching + Grading/ Excavation		111		Yes		Yes		Yes		Yes				
	Drainage/Utilities/Trenching + Grading/Excavation		106		Yes		Yes		Yes		Yes				
	Grading/Excavation + Foundation/Concrete Pour		103		Yes		Yes		Yes		Yes				
	Foundation/Concrete Pour + Building Construction		107		Yes		Yes		Yes		Yes				
	Building Construction + Architectural Coating		106		Yes		Yes		Yes		Yes				
	Building Construction + Architectural Coating + Paving		109		Yes		Yes		Yes		Yes				
R2 ^c	Site Preparation/Demolition + Drainage/Utilities/ Trenching	130	78	81.3	No	76.5	Yes	79.7	No	79.3	No	78.7	No	75.2	Yes
	Site Preparation/Demolition + Drainage/Utilities/Trenching + Grading/ Excavation		79		No		Yes		No		No				
	Drainage/Utilities/Trenching + Grading/Excavation		74		No		No		No		No				
	Grading/Excavation + Foundation/Concrete Pour		73		No		No		No		No				
	Foundation/Concrete Pour + Building Construction		76		No		No		No		No				
	Building Construction + Architectural Coating		74		No		No		No		No				
	Building Construction + Architectural Coating + Paving		77		No		Yes		No		No				
R3 ^c	Site Preparation/Demolition + Drainage/Utilities/ Trenching	180	75	81.6	No	68.5	Yes	73.6	Yes	76.3	No	70.1	Yes	68.3	Yes
	Site Preparation/Demolition + Drainage/Utilities/Trenching + Grading/ Excavation		76		No		Yes		Yes		No				

Receptor	Construction Stage	Nearest Distance to Sensitive Receptor (ft) ^a	Construction Noise Level at Receptor (Leq)	Weekday				Saturday				Sunday			
				Daytime Threshold ^b	Exceed ?	Nighttime Threshold ^b	Exceed?	Daytime Threshold ^b	Exceed?	Nighttime Threshold ^b	Exceed?	Daytime Threshold ^b	Exceed?	Nighttime Threshold ^b	Exceed?
	Drainage/Utilities/Trenching + Grading/Excavation		72		No		Yes		No		No		Yes		Yes
	Grading/Excavation + Foundation/Concrete Pour		71		No		Yes		No		No		Yes		Yes
	Foundation/Concrete Pour + Building Construction		73		No		Yes		No		No		Yes		Yes
	Building Construction + Architectural Coating		72		No		Yes		No		No		Yes		Yes
	Building Construction + Architectural Coating + Paving		75		No		Yes		Yes		No		Yes		Yes
R4	Site Preparation/Demolition + Drainage/Utilities/ Trenching		110		Yes		Yes		Yes		Yes		Yes		Yes
	Site Preparation/Demolition + Drainage/Utilities/Trenching + Grading/ Excavation		111		Yes		Yes		Yes		Yes		Yes		Yes
	Drainage/Utilities/Trenching + Grading/Excavation		106		Yes		Yes		Yes		Yes		Yes		Yes
	Grading/Excavation + Foundation/Concrete Pour	5	103	71.6	Yes	68.8	Yes	69.8	Yes	52.1	Yes	70.9	Yes	68.9	Yes
	Foundation/Concrete Pour + Building Construction		107		Yes		Yes		Yes		Yes		Yes		Yes
	Building Construction + Architectural Coating		106		Yes		Yes		Yes		Yes		Yes		Yes
	Building Construction + Architectural Coating + Paving		109		Yes		Yes		Yes		Yes		Yes		Yes

^a The distance represents the closest construction area on the Project Site to the property line of the off-site receptor without taking into account any differences in elevation.

^b The significance criteria, per the City's Thresholds Guide, is the ambient noise level.

^c Sensitive receptors are partially shielded from the Project Site by existing buildings, providing a minimum 5 dBA reduction (reflected in the construction noise calculations).

SOURCE: ESA, 2021.

ESTIMATE OF CONSTRUCTION NOISE LEVELS (L_{EQ}) AT OFF-SITE SENSITIVE RECEPTOR LOCATIONS - MITIGATED

Receptor	Construction Stage	Unmitigated Construction Noise Level at Receptor (L _{eq})	Mitigated Construction Noise Level at Receptor (L _{eq})	Weekday				Saturday				Sunday			
				Daytime Threshold ^b	Exceed?	Nighttime Threshold ^b	Exceed?	Daytime Threshold ^b	Exceed?	Nighttime Threshold ^b	Exceed?	Daytime Threshold ^b	Exceed?	Nighttime Threshold ^b	Exceed?
<i>Individual Construction Stages</i>															
R1	Site Preparation/Demolition	109	86	75.7	Yes	72.5	Yes	76.3	Yes	77.6	Yes	80.6	Yes	74.1	Yes
	Grading/Excavation	102	79		Yes		Yes		Yes		No		Yes		
	Drainage/Utilities/Trenching	104	81		Yes		Yes		Yes		No		Yes		
	Foundation/Concrete Pour	98	75		No		Yes		No		No		No		
	Building Construction/Architectural Coating	106	83		Yes		Yes		Yes		Yes		Yes		
	Paving	106	83		Yes		Yes		Yes		Yes		Yes		
R2 ^c	Site Preparation/Demolition	77	69	81.3	No	76.5	No	79.7	No	79.3	No	78.7	No	75.2	No
	Grading/Excavation	71	63		No		No		No		No		No		
	Drainage/Utilities/Trenching	71	63		No		No		No		No		No		
	Foundation/Concrete Pour	70	62		No		No		No		No		No		
	Building Construction/Architectural Coating	74	66		No		No		No		No		No		
	Paving	74	66		No		No		No		No		No		
R3 ^c	Site Preparation/Demolition	74	66	81.6	No	68.5	No	73.6	No	76.3	No	70.1	No	68.3	No
	Grading/Excavation	69	61		No		No		No		No		No		
	Drainage/Utilities/Trenching	68	60		No		No		No		No		No		
	Foundation/Concrete Pour	68	60		No		No		No		No		No		
	Building Construction/Architectural Coating	72	64		No		No		No		No		No		
	Paving	71	63		No		No		No		No		No		
R4	Site Preparation/Demolition	109	86	71.6	Yes	68.8	Yes	69.8	Yes	52.1	Yes	70.9	Yes	68.9	Yes
	Grading/Excavation	102	79		Yes		Yes		Yes		Yes		Yes		
	Drainage/Utilities/Trenching	104	81		Yes		Yes		Yes		Yes		Yes		
	Foundation/Concrete Pour	98	75		Yes		Yes		Yes		Yes		Yes		
	Building Construction/Architectural Coating	106	83		Yes		Yes		Yes		Yes		Yes		
	Paving	106	83		Yes		Yes		Yes		Yes		Yes		
<i>Overlapping Construction Stages</i>															
R1	Site Preparation/Demolition + Drainage/Utilities/ Trenching	110	87	75.7	Yes	72.5	Yes	76.3	Yes	77.6	Yes	80.6	Yes	74.1	Yes
	Site Preparation/Demolition + Drainage/Utilities/Trenching + Grading/ Excavation	111	88		Yes		Yes		Yes		Yes		Yes		
	Drainage/Utilities/Trenching + Grading/Excavation	106	83		Yes		Yes		Yes		Yes		Yes		
	Grading/Excavation + Foundation/Concrete Pour	103	80		Yes		Yes		Yes		No		Yes		
	Foundation/Concrete Pour + Building Construction	107	84		Yes		Yes		Yes		Yes		Yes		
	Building Construction + Architectural Coating	106	83		Yes		Yes		Yes		Yes		Yes		
	Building Construction + Architectural Coating + Paving	109	86		Yes		Yes		Yes		Yes		Yes		
R2 ^c	Site Preparation/Demolition + Drainage/Utilities/ Trenching	78	70	81.3	No	76.5	No	79.7	No	79.3	No	78.7	No	75.2	No
	Site Preparation/Demolition + Drainage/Utilities/Trenching + Grading/ Excavation	79	71		No		No		No		No		No		
	Drainage/Utilities/Trenching + Grading/Excavation	74	66		No		No		No		No		No		
	Grading/Excavation + Foundation/Concrete Pour	73	65		No		No		No		No		No		
	Foundation/Concrete Pour + Building Construction	76	68		No		No		No		No		No		
	Building Construction + Architectural Coating	74	66		No		No		No		No		No		
R3 ^c	Site Preparation/Demolition + Drainage/Utilities/ Trenching	75	67	81.6	No	68.5	No	73.6	No	76.3	No	70.1	No	68.3	No
	Site Preparation/Demolition + Drainage/Utilities/Trenching + Grading/ Excavation	76	68		No		No		No		No		No		
	Drainage/Utilities/Trenching + Grading/Excavation	72	64		No		No		No		No		No		

Receptor	Construction Stage	Unmitigated Construction Noise Level at Receptor (L _{eq})	Mitigated Construction Noise Level at Receptor (L _{eq})	Weekday				Saturday				Sunday			
				Daytime Threshold ^b	Exceed ?	Nighttime Threshold ^b	Exceed?	Daytime Threshold ^b	Exceed?	Nighttime Threshold ^b	Exceed?	Daytime Threshold ^b	Exceed?	Nighttime Threshold ^b	Exceed?
	Grading/Excavation + Foundation/Concrete Pour	71	63		No		No		No		No		No		
	Foundation/Concrete Pour + Building Construction	73	65		No		No		No		No		No		
	Building Construction + Architectural Coating	72	64		No		No		No		No		No		
	Building Construction + Architectural Coating + Paving	75	67		No		No		No		No		No		
R4	Site Preparation/Demolition + Drainage/Utilities/ Trenching	110	87		Yes		Yes		Yes		Yes		Yes		
	Site Preparation/Demolition + Drainage/Utilities/Trenching + Grading/ Excavation	111	88		Yes		Yes		Yes		Yes		Yes		
	Drainage/Utilities/Trenching + Grading/Excavation	106	83		Yes		Yes		Yes		Yes		Yes		
	Grading/Excavation + Foundation/Concrete Pour	103	80	71.6	Yes	68.8	Yes	69.8	Yes	52.1	Yes	70.9	Yes		
	Foundation/Concrete Pour + Building Construction	107	84		Yes		Yes		Yes		Yes		Yes		
	Building Construction + Architectural Coating	106	83		Yes		Yes		Yes		Yes		Yes		
	Building Construction + Architectural Coating + Paving	109	86		Yes		Yes		Yes		Yes		Yes		

Note: Mitigation Measure NOISE-MM-1 provides 15 dBA noise reduction to receptors R1 and R4. Mitigation Measure NOISE-MM-2 provides 8 dBA noise reduction to receptors R2 and R3.

^a The distance represents the closest construction area on the Project Site to the property line of the off-site receptor without taking into account any differences in elevation.

^b The significance criteria, per the City's Thresholds Guide, is the ambient noise level plus 5 dBA.

^c Sensitive receptors are partially shielded from the Project Site by existing buildings, providing a minimum 5 dBA reduction (reflected in the construction noise calculations).

SOURCE: ESA, 2021.

Project: 670 Mesquit Street Mixed-Use
Construction Noise Impact on Sensitive Receptors



Parameters

Construction Hours:	8 Daytime hours (7 am to 7 pm)
	0 Evening hours (7 pm to 10 pm)
	0 Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3

Construction Phase Equipment Type	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	R1					R2					R3					R4				
				Distance (ft)	Lmax	Leq	Estimated Noise		Distance (ft)	Lmax	Leq	Estimated Noise		Distance (ft)	Lmax	Leq	Estimated Noise		Distance (ft)	Lmax	Leq	Estimated Noise	
							Shielding, dBA	L10				Shielding, dBA	L10				Shielding, dBA	L10				Shielding, dBA	L10
Site Preparation/Demolition																							
Concrete Saw	4	90	20%	5	116	109	112	0	130	83	76	79	5	180	80	73	76	5	5	116	109	112	0
Jaw Crusher	1	84	10%	5	104	94	97	0	130	71	61	64	5	180	68	58	61	5	5	104	94	97	0
Vacuum Street Sweeper	1	82	10%	105	76	66	69	0	230	64	54	57	5	280	62	52	55	5	105	76	66	69	0
Excavator	4	81	40%	105	81	77	80	0	230	69	65	68	5	280	67	63	66	5	105	81	77	80	0
Hoe Ram Excavator	3	91	40%	105	79	75	78	0	230	68	64	67	5	280	66	62	65	5	105	79	75	78	0
Front End Loader	3	79	40%	105	77	73	76	0	230	66	62	65	5	280	64	60	63	5	105	77	73	76	0
Rubber Tired Loader	2	79	40%	105	76	72	75	0	230	64	60	63	5	280	62	58	61	5	105	76	72	75	0
Air Compressor	2	78	40%	105	75	71	74	0	230	63	59	62	5	280	61	57	60	5	105	75	71	74	0
Backhoe	2	78	40%	105	75	71	74	0	230	63	59	62	5	280	61	57	60	5	105	75	71	74	0
Forklift	2	75	10%	105	72	62	65	0	230	60	50	53	5	280	58	48	51	5	105	72	62	65	0
Grading/Excavation																							
Graders	1	85	40%	5	105	101	104	0	130	72	68	71	5	180	69	65	68	5	5	105	101	104	0
Vacuum Street Sweeper	1	82	10%	5	102	92	95	0	130	69	59	62	5	180	66	56	59	5	5	102	92	95	0
Cranes	1	81	16%	105	75	67	70	0	230	63	55	58	5	280	61	53	56	5	105	75	67	70	0
Excavator	2	81	40%	105	78	74	77	0	230	66	62	65	5	280	64	60	63	5	105	78	74	77	0
Tractor/Loader/Backhoe	2	80	25%	105	77	71	74	0	230	65	59	62	5	280	63	57	60	5	105	77	71	74	0
Rubber Tired Loader	4	79	40%	105	79	75	78	0	230	67	63	66	5	280	65	61	64	5	105	79	75	78	0
Bore/Drill Rig Truck	1	79	20%	105	73	66	69	0	230	61	54	57	5	280	59	52	55	5	105	73	66	69	0
Backhoe	3	78	40%	105	76	72	75	0	230	65	61	64	5	280	63	59	62	5	105	76	72	75	0
Forklift	1	75	10%	105	69	59	62	0	230	57	47	50	5	280	55	45	48	5	105	69	59	62	0
Drainage/Utilities/Trenching																							
Concrete Saw	1	90	20%	5	110	104	106	0	130	77	71	73	5	180	74	68	70	5	5	110	104	106	0
Excavator	1	81	40%	5	101	97	100	0	130	68	64	67	5	180	65	61	64	5	5	101	97	100	0
Air Compressor	1	78	40%	105	72	68	71	0	230	60	56	59	5	280	58	54	57	5	105	72	68	71	0
Backhoe	2	78	40%	105	75	71	74	0	230	63	59	62	5	280	61	57	60	5	105	75	71	74	0
Forklift	1	75	10%	105	69	59	62	0	230	57	47	50	5	280	55	45	48	5	105	69	59	62	0
Foundation/Concrete Pour																							
Concrete Batch Plant	1	83	15%	5	103	95	98	0	130	70	61	64	5	180	67	59	62	5	5	103	95	98	0
Rubber Tired Loader	1	79	40%	5	99	95	98	0	130	66	62	65	5	180	63	59	62	5	5	99	95	98	0
Cranes	1	81	16%	105	75	67	70	0	230	63	55	58	5	280	61	53	56	5	105	75	67	70	0
Concrete Pump Trucks	5	81	20%	105	82	75	78	0	230	70	63	66	5	280	68	61	64	5	105	82	75	78	0
Generator Sets	4	81	50%	105	81	78	81	0	230	69	66	69	5	280	67	64	67	5	105	81	78	81	0
Air Compressor	2	78	40%	105	75	71	74	0	230	63	59	62	5	280	61	57	60	5	105	75	71	74	0
Forklift	2	75	10%	105	72	62	65	0	230	60	50	53	5	280	58	48	51	5	105	72	62	65	0
Man Lift	1	75	20%	105	69	62	65	0	230	57	50	53	5	280	55	48	51	5	105	69	62	65	0
Building Construction/Architectural Coating																							
Concrete Saw	2	90	20%	5	113	106	109	0	130	80	73	76	5	180	77	70	73	5	5	113	106	109	0
Concrete Batch Plant	1	83	15%	5	103	95	98	0	130	70	61	64	5	180	67	59	62	5	5	103	95	98	0
Vacuum Street Sweeper	1	82	10%	105	76	66	69	0	230	64	54	57	5	280	62	52	55	5	105	76	66	69	0
Cranes	4	81	16%	105	81	73	76	0	230	69	61	64	5	280	67	59	62	5	105	81	73	76	0
Pumps	4	81	50%	105	81	78	81	0	230	69	66	69	5	280	67	64	67	5	105	81	78	81	0
Rubber Tired Loader	1	79	40%	105	73	69	72	0	230	61	57	60	5	280	59	55	58	5	105	73	69	72	0
Air Compressor	4	78	40%	105	78	74	77	0	230	66	62	65	5	280	64	60	63	5	105	78	74	77	0
Forklift	4	75	10%	105	75	65	68	0	230	63	53	56	5	280	61	51	54	5	105	75	65	68	0
Man Lift	6	75	20%	105	76	69	72	0	230	65	58	61	5	280	63	56	59	5	105	76	69	72	0
Paving																							
Concrete Saw	1	90	20%	5	110	103	106	0	130	77	70	73	5	180	74	67	70	5	5	110	103	106	0
Surfacings Equipment	1	90	20%	5	110	103	106	0	130	77	70	73	5	180	74	67	70	5	5	110	103	106	0
Graders	1	85	40%	105	79	75	78	0	230	67	63	66	5	280	65	61	64	5	105	79	75	78	0
Roller	2	80	20%	105	77	70	73	0	230	65	58	61	5	280	63	56	59	5	105	77	70	73	0
Excavator	1	81	40%	105	75	71	74	0	230	63	59	62	5	280	61	57	60	5	105	75	71	74	0
Air Compressor	1	78	40%	105	72	68	71	0	230	60	56	59	5	280	58	54	57	5	105	72	68	71	0
Paver	1	77	50%	105	71	68	71	0	230	59	56	59	5	280	57	54	57	5	105	71	68	71	0
Maximum Noise Level (Overlapping Phases)				110					78					75					110				
Site Preparation/Demolition + Drainage/Utilities/Trenching				110					78					75					110				
Site Preparation/Demolition + Drainage/Utilities/Trenching + Grading/Excavation				111					79					76					111				
Drainage/Utilities/Trenching + Grading/Excavation				74					74					72					106				
Grading/Excavation + Foundation/Concrete Pour				73					73					71					103				
Foundation/Concrete Pour + Building Construction				107					76					73					107				
Building Construction + Architectural Coating				106					74					72					106				
Building Construction + Architectural Coating + Paving				109					77					75					109				

Source for Ref. Noise Levels: LA CEQA Guides, 2006 & FHWA RCNM, 2005

ESTIMATE OF OFF-SITE CONSTRUCTION TRAFFIC NOISE LEVELS

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Existing (A)	Existing with Project (B)	Project Increment (B-A)	
4th Street					
Between S. Alameda Street and Molino Street	Commercial	69.1	70.7	1.6	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	68.4	70.3	1.9	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.1	70.1	2.0	No
Between Mateo Street and Santa Fe Avenue	Commercial	66.6	69.2	2.6	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	68.1	70.1	2.0	No
Between S. Alameda Street and Mateo Street	Commercial	67.9	70.0	2.1	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	69.0	70.7	1.7	No
Between S. Central Avenue and S. Alameda Street	Commercial/Residential	68.3	70.2	1.9	No
Between Rio Street and Anderson Street	Commercial	68.4	70.3	1.9	No
Between Santa Fe Avenue and S. Rio Street	Commercial	68.6	70.4	1.8	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	66.7	69.3	2.6	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	65.4	68.6	3.2	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	58.6	66.3	7.7	Yes
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	66.6	6.4	Not Applicable ^a
Mateo Street					
Between 6 th Street and Jesse Street	Commercial	62.6	67.3	4.7	No
Between E. 4 th Place and Willow Street	Commercial/Residential	62.1	67.2	5.1	Yes
Between Jesse Street and 7 th Street	Commercial	63.7	67.7	4.0	No
Between Willow Street and 6 th Street	Commercial	62.6	67.3	4.7	No
N. Alameda Street					
Between Aliso Street and Temple Street	Commercial	70.8	72.1	1.3	No

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Existing (A)	Existing with Project (B)	Project Increment (B-A)	
Between Temple Street and East 1 st Street	Residential/Commercial	70.8	72.1	1.3	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	69.6	71.3	1.7	No
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	65.9	68.9	2.9	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	69.9	71.5	1.6	No
Between 4 th Street and 6 th Street	Industrial	70.3	71.8	1.5	No
Between 6 th Street and 7 th Street	Industrial	70.5	71.9	1.4	No
Between E. 2 nd Street and 3 rd Street		70.2	71.7	1.5	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	67.2	69.6	2.3	No
Between 8 th Street and Porter Street	Commercial	67.6	69.8	2.2	No
Between Jesse Street and 7 th Street	Commercial/Residential	66.2	69.0	2.8	No
Between Mesquit Street and Jesse Street	Commercial	66.8	69.6	2.8	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.1	71.4	1.4	No
Between Porter and Olympic Boulevard	Commercial	69.0	70.7	1.7	No
Between Willow Street and Mesquit Street	Commercial	63.4	67.6	4.2	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	55.2	65.9	10.7	Not Applicable ^a
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	66.8	6.0	Not Applicable ^a

^a According to the City of Los Angeles General Plan Noise element, noise-sensitive uses include residential dwellings, long-term care facilities, dormitories, motels, hotels, transient lodgings, housing of worship, hospitals, libraries, schools, auditoriums, concert halls, outdoor theaters, nature and wildlife preserves, and parks. Additionally, the 2006 L.A. CEQA Thresholds Guide and FHWA do not consider commercial and industrial uses to be noise-sensitive. Per the 2006 L.A. CEQA Thresholds Guide construction impacts occur when construction noise exceeds ambient noise by 5 dBA or greater at noise sensitive uses. Therefore, although Project-related increases in traffic noise would exceed 5 dBA, less than significant impacts would occur.

SOURCE: ESA, 2021.

SIGNIFICANT RELATED PROJECT CONSTRUCTION TRAFFIC

Roadway Segment	Existing Traffic Noise Level (dBA CNEL)	Threshold (dBA CNEL) ^a	Project Trucks	Related Project Trucks to Reach Threshold
7th Street				
Between S. Central Avenue and S. Alameda Street	68.3	73.3	56	164
Jesse Street				
Between Mateo Street and Santa Fe Avenue	58.6	63.6	56	0 ^b
Mateo Street				
Between 6 th Street and Jesse Street	62.6	67.6	56	6
Between E. 4 th Place and Willow Street	62.1	67.1	56	0 ^b
N. Alameda Street				
Between Temple Street and East 1 st Street	70.8	75.8	56	294
Between E. 1 st Street and E. 2 nd Street	69.6	74.6	56	214
Between E. 2 nd Street and 3 rd Street	70.2	75.2	56	254
Santa Fe Avenue				
Between Jesse Street and 7 th Street	66.2	71.2	56	79

^a Threshold is existing traffic noise level +5 dBA CNEL.

^b Project increment along segment is significant prior to mitigation. There, any additional truck would result in significant cumulative impact.

SOURCE: ESA, 2021.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
 Analysis Scenario: Construction
 Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	53	0	56	65.2	65.5
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	53	0	56	65.5	65.8
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	53	0	56	65.5	65.8
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	53	0	56	65.5	65.8
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	53	0	56	65.5	65.8
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	53	0	56	65.5	65.8
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	53	0	56	65.5	65.8
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	53	0	56	65.5	65.8
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	53	0	56	65.5	65.8
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	53	0	56	65.5	65.8
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	53	0	56	65.5	65.8
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	53	0	56	65.5	65.8
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	53	0	56	65.2	65.5
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	53	0	56	65.2	65.5
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	53	0	56	65.2	65.5
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	53	0	56	65.2	65.5
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	53	0	56	65.2	65.5
Mateo St between Willow St and 6th St	Hard	30	25	25	25	53	0	56	65.2	65.5
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	53	0	56	66.0	66.3
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	53	0	56	66.0	66.3
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	53	0	56	65.5	65.8
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	53	0	56	66.0	66.3
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	53	0	56	66.0	66.3
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	53	0	56	66.0	66.3
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	53	0	56	66.0	66.3
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	53	0	56	65.5	65.8
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	53	0	56	65.5	65.8
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	53	0	56	65.5	65.8
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	53	0	56	66.0	66.3
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	53	0	56	65.5	65.8
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	53	0	56	65.5	65.8
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	53	0	56	65.2	65.5
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	53	0	56	65.2	65.5
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	53	0	56	65.2	65.5

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
 Analysis Scenario: Cumulative Construction
 Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Noise Level dBA CNEL	Existing + Construction	Threshold	Additional Trucks to Reach
			Auto	MT	HT	Auto	MT	HT				
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	53	0	220	71.6	73.3	73.3	164.0
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	53	0	24	62.0	63.6	63.6	-32.0
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	53	0	62	66.0	67.6	67.6	6.0
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	53	0	55	65.5	67.1	67.1	-1.0
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	53	0	350	74.1	75.8	75.8	294.0
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	53	0	270	73.0	74.6	74.6	214.0
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	53	0	310	73.6	75.2	75.2	254.0
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	53	0	135	69.5	71.2	71.2	79.0

Model Notes:
 The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

Operational Noise Calculations

ESTIMATED DAYTIME OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS (L_{EQ})

Open Space/Event (primary noise source)	Receptor Location	Nearest Distance to Receptor (feet) ^a	Estimated Open Space/Event Related Noise Levels, (L _{eq})	Existing Ambient Noise Levels, dBA (L _{eq}) ^b	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
Northern Landscaped Area (1,709 people)	R1	1,130	24.5	70.7	70.7	75.7	No
	R2	1,390	23.1	73.7	73.7	78.7	No
	R3	930	26.4	65.1	65.1	70.1	No
	R4	10	67.3	64.8	69.3	69.8	No
River Balcony (North) (325 people and amplified music)	R1	851	50.4	70.7	70.7	75.7	No
	R2	1,051	48.5	73.7	73.7	78.7	No
	R3	731	51.7	65.1	65.3	70.1	No
	R4	291	69.7	64.8	70.9	69.8	Yes
Rooftop Hotel Bar/Pool (719 people and amplified music)	R1	741	61.6	70.7	71.2	75.7	No
	R2	914	59.7	73.7	73.9	78.7	No
	R3	649	62.7	65.1	67.1	70.1	No
	R4	624	53.1	64.8	65.1	69.8	No
Pool Deck (Residential) (761 people and amplified music)	R1	615	63.2	70.7	71.4	75.7	No
	R2	778	61.1	73.7	73.9	78.7	No
	R3	572	63.8	65.1	67.5	70.1	No
	R4	741	51.6	64.8	65.0	69.8	No
Mesquit Paseo (1,161 people and amplified music)	R1	240	71.4	70.7	74.1	75.7	No
	R2	415	56.6	73.7	73.8	78.7	No
	R3	330	58.6	65.1	66.0	70.1	No
	R4	765	61.3	64.8	66.4	69.8	No
Work/Breakout Deck (952 people)	R1	486	38.7	70.7	70.7	75.7	No
	R2	642	36.4	73.7	73.7	78.7	No
	R3	534	38.1	65.1	65.1	70.1	No
	R4	873	24.0	64.8	64.8	69.8	No
Sculpture Garden (959 people and amplified music)	R1	392	67.1	70.7	72.3	75.7	No
	R2	493	65.1	73.7	74.3	78.7	No
	R3	484	65.3	65.1	68.2	70.1	No
	R4	993	49.0	64.8	64.9	69.8	No
Fitness Deck (1,144 people and amplified music)	R1	323	68.8	70.7	72.9	75.7	No
	R2	357	67.9	73.7	74.7	78.7	No
	R3	453	65.9	65.1	68.5	70.1	No
	R4	1,133	47.9	64.8	64.9	69.8	No

Open Space/Event (primary noise source)	Receptor Location	Nearest Distance to Receptor (feet) ^a	Estimated Open Space/Event Related Noise Levels, (L _{eq})	Existing Ambient Noise Levels, dBA (L _{eq}) ^b	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
Public Plaza Flex Deck (1,155 people and amplified music)	R1	267	70.4	70.7	73.6	75.7	No
	R2	224	72.0	73.7	75.9	78.7	No
	R3	444	66.0	65.1	68.6	70.1	No
	R4	1,277	46.9	64.8	64.9	69.8	No
7 th Street Terrace (474 people and amplified music)	R1	217	62.2	70.7	71.3	75.7	No
	R2	135	76.4	73.7	78.2	78.7	No
	R3	444	56.0	65.1	65.6	70.1	No
	R4	1,383	46.1	64.8	64.9	69.8	No
River Balcony (South) (98 people and amplified music)	R1	351	58.1	70.7	70.9	75.7	No
	R2	162	64.8	73.7	74.2	78.7	No
	R3	561	54.0	65.1	65.4	70.1	No
	R4	1,276	46.8	64.8	64.9	69.8	No

^a It has been assumed that crowds would be dispersed across each open space area at various distances from each receptor.

^b The lowest measured ambient daytime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

SOURCE: ESA, 2021.

**ESTIMATED COMBINED DAYTIME OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS
(L_{EQ})**

Receptor	Existing Ambient, dBA (L_{eq})^a	Combined Open Space/Event Related Noise Level, dBA (L_{eq})	Project plus Ambient, dBA (L_{eq})	Significance Threshold, dBA (L_{eq})	Exceed Significance Threshold
R1	70.7	76.4	77.4	75.7	Yes
R2	73.7	78.7	79.9	78.7	Yes
R3	65.1	72.3	73.1	70.1	Yes
R4	64.8	72.2	72.9	69.8	Yes

Note: Daytime hours defined as between 7:00 AM and 10:00 PM.

^a The lowest measured ambient daytime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

SOURCE: ESA, 2021.

ESTIMATED NIGHTTIME OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS (L_{EQ})

Open Space/Event (primary noise source)	Receptor Location ^a	Nearest Distance to Receptor (feet) ^b	Estimated Open Space/Event Related Noise Levels, (L _{eq})	Existing Ambient Noise Levels, dBA (L _{eq}) ^c	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
River Balcony (North) (325 people and amplified music)	R1	851	19.9	67.5	67.5	72.5	No
	R2	1,051	18.1	70.2	70.2	75.2	No
	R3	731	21.2	63.3	63.3	68.3	No
Rooftop Hotel Bar/Pool (719 people and amplified music)	R1	741	61.6	67.5	68.5	72.5	No
	R2	914	59.7	70.2	70.6	75.2	No
	R3	649	62.7	63.3	66.0	68.3	No
Pool Deck (Residential) (76 people)	R1	615	42.1	67.5	67.5	72.5	No
	R2	778	42.0	70.2	70.2	75.2	No
	R3	572	42.2	63.3	63.3	68.3	No
7 th Street Terrace (474 people and amplified music)	R1	217	62.2	67.5	68.6	72.5	No
	R2	135	76.4	70.2	77.3	75.2	Yes
	R3	444	56.0	63.3	64.0	68.3	No
River Balcony (South) (98 people and amplified music)	R1	351	22.9	67.5	67.5	72.5	No
	R2	162	27.9	70.2	70.2	75.2	No
	R3	561	18.6	63.3	63.3	68.3	No

Note: Nighttime hours defined as between 10:00 PM and 7:00 AM.

^a Nighttime impacts not calculated for receptors R4 as it is anticipated that the future PARC would be operational during daytime hours only.

^b It has been assumed that crowds would be dispersed across each open space area at various distances from each receptor.

^c The lowest measured ambient nighttime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

SOURCE: ESA, 2021.

**ESTIMATED COMBINED NIGHTTIME OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS
(L_{EQ})**

Receptor	Existing Ambient, dBA (L _{eq}) ^a	Combined Open Space/Event Related Noise Level, dBA (L _{eq})	Project plus Ambient, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
R1	67.5	64.9	69.4	72.5	No
R2	70.2	76.4	77.4	75.2	Yes
R3	63.3	63.6	66.5	68.3	No
R4 ^b	N/A	N/A	N/A	N/A	N/A

Note: Nighttime hours defined as between 10:00 PM and 7:00 AM.

^a The lowest measured ambient nighttime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

^b Nighttime impacts not calculated for receptors R4 as it is anticipated that the future PARC would be operational during daytime hours only.

SOURCE: ESA, 2021.

MITIGATED DAYTIME OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS (L_{EQ})

Open Space/Event (primary noise source)	Receptor Location	Unmitigated Open Space/Event Related Noise Levels, (L _{eq})	Mitigated Open Space/Event Related Noise Levels, (L _{eq})	Existing Ambient Noise Levels, dBA (L _{eq})	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
River Balcony (North) (325 people and amplified music)	R4	69.7	53.8	64.8	65.1	69.8	No

SOURCE: ESA, 2021.

MITIGATED DAYTIME COMBINED OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS (L_{EQ})

Receptor Location	Unmitigated Combined Open Space/Event Related Noise Level, dBA (L _{eq})	Mitigated Combined Open Space/Event Related Noise Level, dBA (L _{eq})	Existing Ambient, dBA (L _{eq}) ^a	Project plus Ambient, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
R1	76.4	70.4	70.7	73.6	75.7	No
R2	78.7	72.7	73.7	76.2	78.7	No
R3	72.3	66.4	65.1	68.8	70.1	No
R4	72.2	67.9	64.8	69.6	69.8	No

Note: Daytime hours defined as between 7:00 AM and 10:00 PM.

^a The lowest measured ambient daytime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

SOURCE: ESA, 2021.

MITIGATED NIGHTTIME OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS (L_{Eq})

Open Space/Event (primary noise source)	Receptor Location	Unmitigated Open Space/Event Related Noise Levels, (L _{Eq})	Mitigated Open Space/Event Related Noise Levels, (L _{Eq})	Existing Ambient Noise Levels, dBA (L _{Eq})	Ambient + Project Noise Levels, dBA (L _{Eq})	Significance Threshold, dBA (L _{Eq})	Exceed Significance Threshold
7 th Street Terrace	R2	76.4	70.4	70.2	73.3	75.2	No

SOURCE: ESA, 2021.

**MITIGATED NIGHTTIME COMBINED OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS
(L_{Eq})**

Receptor Location	Unmitigated Combined Open Space/Event Related Noise Level, dBA (L _{Eq})	Mitigated Combined Open Space/Event Related Noise Level, dBA (L _{Eq})	Existing Ambient, dBA (L _{Eq}) ^a	Project plus Ambient, dBA (L _{Eq})	Significance Threshold, dBA (L _{Eq})	Exceed Significance Threshold
R2	76.4	70.5	70.2	73.3	75.2	No

Note: Nighttime hours defined as between 10:00 PM and 7:00 AM.

^a The lowest measured ambient nighttime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

^b Nighttime impacts not calculated for receptors R4 as it is anticipated that the future PARC would be operational during daytime hours only.

SOURCE: ESA, 2021.

**ESTIMATED DAYTIME OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS (L_{EQ}) –
PROJECT WITH THE DECK CONCEPT**

Open Space/Event (primary noise source)	Receptor Location ^a	Nearest Distance to Receptor (feet) ^b	Estimated Open Space/Event Related Noise Levels, (L _{eq})	Existing Ambient Noise Levels, dBA (L _{eq}) ^c	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
The Deck: Special Event Programming (8,800 people and amplified music)	R1	386	57.3	70.7	70.9	75.7	No
	R2	177	74.0	73.7	76.9	78.7	No
	R3	531	54.5	65.1	65.5	70.1	No
	R4	486	55.3	64.8	65.3	69.8	No

^a Sensitive Receptor R2 is the nearest receptor to the proposed Deck. Impacts to R2 would be less than significant. Therefore, any receptors located at further distances would also be less than significant.

^b It has been assumed that crowds would be dispersed across each open space area at various distances from each receptor. See calculation worksheets included in Appendix J for details on distances to receptors.

^c The lowest measured ambient daytime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

SOURCE: ESA, 2021.

**ESTIMATED COMBINED DAYTIME OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS
(L_{EQ}) – PROJECT WITH DECK CONCEPT**

Receptor	Existing Ambient, dBA (L _{eq}) ^a	Combined Open Space/Event Related Noise Level, dBA (L _{eq})	Project plus Ambient, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
R1	70.7	76.4	77.5	75.7	Yes
R2	73.7	80.0	80.9	78.7	Yes
R3	65.1	72.4	73.1	70.1	Yes
R4	64.8	72.3	73.0	69.8	Yes

Note: Daytime hours defined as between 7:00 AM and 10:00 PM.

^a The lowest measured ambient daytime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

SOURCE: ESA, 2021.

**ESTIMATED NIGHTTIME OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS (L_{EQ}) –
PROJECT WITH THE DECK CONCEPT**

Open Space/Event (primary noise source)	Receptor Location ^a	Nearest Distance to Receptor (feet) ^b	Estimated Open Space/Event Related Noise Levels, (L _{eq})	Existing Ambient Noise Levels, dBA (L _{eq}) ^c	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
The Deck: Special Event Programming (8,800 people and amplified music)	R1	386	57.3	67.5	67.9	72.5	No
	R2	177	74.0	70.2	75.5	75.2	Yes
	R3	531	54.5	63.3	63.8	68.3	No
	R4 ^a	N/A	N/A	N/A	N/A	N/A	N/A

^a Nighttime impacts not calculated for receptors R4 as it is anticipated that the future PARC would be operational during daytime hours only.

^b It has been assumed that crowds would be dispersed across each open space area at various distances from each receptor. See calculation worksheets included in Appendix J for details on distances to receptors.

^c The lowest measured ambient daytime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

SOURCE: ESA, 2021.

**ESTIMATED COMBINED NIGHTTIME OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS
(L_{EQ}) – PROJECT WITH DECK CONCEPT**

Receptor	Existing Ambient, dBA (L _{eq}) ^a	Combined Open Space/Event Related Noise Level, dBA (L _{eq})	Project plus Ambient, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
R1	67.5	65.6	69.7	72.5	No
R2	70.2	78.4	79.0	75.2	Yes
R3	63.3	64.1	66.7	68.3	No
R4 ^b	N/A	N/A	N/A	N/A	N/A

Note: Nighttime hours defined as between 10:00 PM and 7:00 AM.

^a The lowest measured ambient nighttime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

^b Nighttime impacts not calculated for receptors R4 as it is anticipated that the future PARC would be operational during daytime hours only.

SOURCE: ESA, 2021.

**MITIGATED DAYTIME COMBINED OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS (L_{EQ})
– PROJECT WITH DECK CONCEPT**

Receptor Location	Unmitigated Combined Open Space/Event Related Noise Level, dBA (L _{eq})	Mitigated Combined Open Space/Event Related Noise Level, dBA (L _{eq})	Existing Ambient, dBA (L _{eq}) ^a	Project plus Ambient, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
R1	76.4	70.5	70.7	73.6	75.7	No
R2	80.0	74.0	73.7	76.9	78.7	No
R3	72.4	66.4	65.1	68.8	70.1	No
R4	72.3	68.0	64.8	69.7	69.8	No

Note: Daytime hours defined as between 7:00 AM and 10:00 PM.

^a The lowest measured ambient daytime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

SOURCE: ESA, 2021.

**MITIGATED NIGHTTIME OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS (L_{EQ}) –
PROJECT WITH DECK CONCEPT**

Open Space/Event (primary noise source)	Receptor Location	Unmitigated Open Space/Event Related Noise Levels, (L _{eq})	Mitigated Open Space/Event Related Noise Levels, (L _{eq})	Existing Ambient Noise Levels, dBA (L _{eq})	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
River Balcony (North) (325 people and amplified music)	R4	74.0	68.0	64.8	69.7	69.8	No

SOURCE: ESA, 2021.

**MITIGATED NIGHTTIME COMBINED OUTDOOR OPEN SPACE EVENT RELATED NOISE LEVELS
(L_{EQ}) – PROJECT WITH DECK CONCEPT**

Receptor Location	Unmitigated Combined Open Space/Event Related Noise Level, dBA (L_{eq})	Mitigated Combined Open Space/Event Related Noise Level, dBA (L_{eq})	Existing Ambient, dBA (L_{eq})^a	Project plus Ambient, dBA (L_{eq})	Significance Threshold, dBA (L_{eq})	Exceed Significance Threshold
R2	78.4	72.5	70.2	74.5	75.2	No

Note: Nighttime hours defined as between 10:00 PM and 7:00 AM.

^a The lowest measured ambient nighttime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project outdoor spaces are anticipated to be operational on weekdays and weekends.

^b Nighttime impacts not calculated for receptors R4 as it is anticipated that the future PARC would be operational during daytime hours only.

SOURCE: ESA, 2021.

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Open Space Noise Calculation - 7th Street Terrace - Mitigated

7th Street Terrace

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	119						
Females (Adult)	29	15	3	55	66.8	217	29.6
Males (Adult)	30	15	3	58	69.8	217	32.6
Children	60	30	3	58	72.8	217	35.6
Total	119	60	-	-	75.2	-	38.0
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	217	66.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

7th Street Terrace (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	474		
@ 217 feet	119	60	38.0
Amplified Speakers @ 365 feet	-	-	66.2
Total w/ Shielding	119	60	56.2
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - 7th Street Terrace

7th Street Terrace							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	119						
Females (Adult)	29	15	3	55	66.8	217	29.6
Males (Adult)	30	15	3	58	69.8	217	32.6
Children	60	30	3	58	72.8	217	35.6
Total	119	60	-	-	75.2	-	38.0
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	217	72.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

7th Street Terrace (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity @ 217 feet	474		
Amplified Speakers @ 365 feet	119	60	38.0
Total w/ Shielding	119	60	62.2
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Special Programming with Deck - Mitigated

Special Programming with Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2934						
Females (Adult)	733	367	3	55	80.6	386	38.5
Males (Adult)	734	367	3	58	83.6	386	41.5
Children	1467	734	3	58	86.7	386	44.5
Total	2934	1468	-	-	89.1	-	46.9
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	386	61.2

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	501	36.2
Males (Adult)	733	367	3	58	83.6	501	39.2
Children	1467	734	3	58	86.7	501	42.2
Total	2933	1468	-	-	89.1	-	44.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	916	31.0
Males (Adult)	733	367	3	58	83.6	916	34.0
Children	1467	734	3	58	86.7	916	37.0
Total	2933	1468	-	-	89.1	-	39.4

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	8800		
@ 386 feet	2934	1468	46.9
@ 501 feet	2933	1468	44.6
@ 916 feet	2933	1468	39.4
Amplified Speakers @180 feet	-	-	61.2
Total w/ Shielding	8800	4404	51.5
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Special Programming with Deck

Special Programming with Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2934						
Females (Adult)	733	367	3	55	80.6	386	38.5
Males (Adult)	734	367	3	58	83.6	386	41.5
Children	1467	734	3	58	86.7	386	44.5
Total	2934	1468	-	-	89.1	-	46.9
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	386	67.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	501	36.2
Males (Adult)	733	367	3	58	83.6	501	39.2
Children	1467	734	3	58	86.7	501	42.2
Total	2933	1468	-	-	89.1	-	44.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	916	31.0
Males (Adult)	733	367	3	58	83.6	916	34.0
Children	1467	734	3	58	86.7	916	37.0
Total	2933	1468	-	-	89.1	-	39.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	8800		
@ 386 feet	2934	1468	46.9
@ 501 feet	2933	1468	44.6
@ 916 feet	2933	1468	39.4
Amplified Speakers @180 feet	-	-	67.2
Total w/ Shielding	8800	4404	57.3
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Fitness Deck - Mitigated

Fitness Deck (SW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	323	29.9
Males (Adult)	72	36	3	58	73.6	323	32.9
Children	143	72	3	58	76.6	323	35.9
Total	286	144	-	-	79.0	-	38.4
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	323	62.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (SE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	380	28.5
Males (Adult)	72	36	3	58	73.6	380	31.5
Children	143	72	3	58	76.6	380	34.5
Total	286	144	-	-	79.0	-	37.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	336	29.6
Males (Adult)	72	36	3	58	73.6	336	32.6
Children	143	72	3	58	76.6	336	35.6
Total	286	144	-	-	79.0	-	38.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	389	28.3
Males (Adult)	72	36	3	58	73.6	389	31.3
Children	143	72	3	58	76.6	389	34.3
Total	286	144	-	-	79.0	-	36.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1144		
@ 323 feet	286	144	38.4
@ 380 feet	572	288	39.9
@ 336 feet	286	144	38.0
Amplified Speakers	-	-	62.8
Total	1144	576	62.8

670 Mesquit
Open Space Noise Calculation - Fitness Deck

Fitness Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	323	29.9
Males (Adult)	72	36	3	58	73.6	323	32.9
Children	143	72	3	58	76.6	323	35.9
Total	286	144	-	-	79.0	-	38.4
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	323	68.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	380	28.5
Males (Adult)	72	36	3	58	73.6	380	31.5
Children	143	72	3	58	76.6	380	34.5
Total	286	144	-	-	79.0	-	37.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	336	29.6
Males (Adult)	72	36	3	58	73.6	336	32.6
Children	143	72	3	58	76.6	336	35.6
Total	286	144	-	-	79.0	-	38.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	389	28.3
Males (Adult)	72	36	3	58	73.6	389	31.3
Children	143	72	3	58	76.6	389	34.3
Total	286	144	-	-	79.0	-	36.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1144		
@ 323 feet	286	144	38.4
@ 380 feet	572	288	39.9
@ 336 feet	286	144	38.0
Amplified Speakers	-	-	68.8
Total	1144	576	68.8

670 Mesquit

Open Space Noise Calculation - Mesquit Paseo - Mitigated

Mesquit Paseo (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft)¹	Reference Noise Level (dBA)¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	240	33.8
Males (Adult)	97	49	3	58	74.9	240	36.8
Children	194	97	3	58	77.9	240	39.8
Total	387	194	-	-	80.3	-	42.2
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	240	65.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft)¹	Reference Noise Level (dBA)¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	375	29.9
Males (Adult)	97	49	3	58	74.9	375	33.0
Children	194	97	3	58	77.9	375	35.9
Total	387	194	-	-	80.3	-	38.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft)¹	Reference Noise Level (dBA)¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	520	27.0
Males (Adult)	96	48	3	58	74.8	520	30.0
Children	194	97	3	58	77.9	520	33.1
Total	386	193	-	-	80.3	-	35.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1161		
@ 240 feet	387	194	42.2
@ 375 feet	387	194	38.4
@ 520 feet	386	193	35.5
Amplified Speakers	-	-	65.4
Total	1160	581	65.4

670 Mesquit
Open Space Noise Calculation - Mesquit Paseo

Mesquit Paseo (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	240	33.8
Males (Adult)	97	49	3	58	74.9	240	36.8
Children	194	97	3	58	77.9	240	39.8
Total	387	194	-	-	80.3	-	42.2
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	240	71.4

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	375	29.9
Males (Adult)	97	49	3	58	74.9	375	33.0
Children	194	97	3	58	77.9	375	35.9
Total	387	194	-	-	80.3	-	38.4

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	520	27.0
Males (Adult)	96	48	3	58	74.8	520	30.0
Children	194	97	3	58	77.9	520	33.1
Total	386	193	-	-	80.3	-	35.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1161		
@ 240 feet	387	194	42.2
@ 375 feet	387	194	38.4
@ 520 feet	386	193	35.5
Amplified Speakers	-	-	71.4
Total	1160	581	71.4

670 Mesquit

Open Space Noise Calculation - Northern Landscape Area

Northern Landscaped Area (Southern Boundary W)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1130	17.3
Males (Adult)	48	24	3	58	71.8	1130	20.3
Children	95	48	3	58	74.8	1130	23.3
Total	190	96	-	-	77.2	-	25.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1140	17.2
Males (Adult)	48	24	3	58	71.8	1140	20.2
Children	95	48	3	58	74.8	1140	23.2
Total	190	96	-	-	77.2	-	25.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary E)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1150	17.1
Males (Adult)	48	24	3	58	71.8	1150	20.1
Children	95	48	3	58	74.8	1150	23.1
Total	190	96	-	-	77.2	-	25.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center W)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1180	16.9
Males (Adult)	48	24	3	58	71.8	1180	19.9
Children	95	48	3	58	74.8	1180	22.9
Total	190	96	-	-	77.2	-	25.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1190	16.8
Males (Adult)	48	24	3	58	71.8	1190	19.8
Children	95	48	3	58	74.8	1190	22.8
Total	190	96	-	-	77.2	-	25.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center E)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	2000	12.3
Males (Adult)	48	24	3	58	71.8	2000	15.3
Children	95	48	3	58	74.8	2000	18.3
Total	190	96	-	-	77.2	-	20.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Northern Boundary W)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1230	16.5
Males (Adult)	48	24	3	58	71.8	1230	19.5
Children	95	48	3	58	74.8	1230	22.6
Total	190	96	-	-	77.2	-	25.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Northern Boundary Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1240	16.5
Males (Adult)	48	24	3	58	71.8	1240	19.5
Children	95	48	3	58	74.8	1240	22.5
Total	190	96	-	-	77.2	-	24.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary E)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	189						
Females (Adult)	47	24	3	55	68.8	1250	16.4
Males (Adult)	47	24	3	58	71.8	1250	19.4
Children	95	48	3	58	74.8	1250	22.4
Total	189	96	-	-	77.2	-	24.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1709		
@ 1130 feet	190	96	25.7
@ 1140 & 1150 feet	380	192	28.6
@ 1180 feet	190	96	25.3
@ 1190 & 2000 feet	380	192	26.6
@ 1230 feet	190	96	25.0
@ 1240 & 1250 feet	379	192	27.9
Total w/ Shielding	1709	864	24.5
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Hotel Rooftop Bar/Pool Deck - DAY Mitigated

Hotel Rooftop Bar/Pool Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	741	21.9
Males (Adult)	60	30	3	58	72.8	741	24.9
Children	120	60	3	58	75.8	741	27.9
Total	240	120	-	-	78.2	-	30.4
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	741	55.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	777	21.5
Males (Adult)	60	30	3	58	72.8	777	24.5
Children	120	60	3	58	75.8	777	27.5
Total	240	120	-	-	78.2	-	29.9

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	813	21.1
Males (Adult)	60	30	3	58	72.8	813	24.1
Children	120	60	3	58	75.8	813	27.1
Total	239	120	-	-	78.2	-	29.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Rooftop Bar/Pool Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	719		
@ 741 feet	240	120	30.4
@ 777 feet	240	120	29.9
@ 813 feet	239	120	29.6
Amplified Speakers	-	-	55.6
Total	719	360	55.6

670 Mesquit

Open Space Noise Calculation - Hotel Rooftop Bar/Pool Deck - NIGHT Mitigated

Hotel Rooftop Bar/Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	741	21.9
Males (Adult)	60	30	3	58	72.8	741	24.9
Children	120	60	3	58	75.8	741	27.9
Total	240	120	-	-	78.2	-	30.4
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	741	55.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	777	21.5
Males (Adult)	60	30	3	58	72.8	777	24.5
Children	120	60	3	58	75.8	777	27.5
Total	240	120	-	-	78.2	-	29.9

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	813	21.1
Males (Adult)	60	30	3	58	72.8	813	24.1
Children	120	60	3	58	75.8	813	27.1
Total	239	120	-	-	78.2	-	29.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Rooftop Bar/Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	719		
@ 741 feet	240	120	30.4
@ 777 feet	240	120	29.9
@ 813 feet	239	120	29.6
Amplified Speakers	-	-	55.6
Total	719	360	55.6

670 Mesquit
Open Space Noise Calculation - Hotel Rooftop Bar/Pool Deck

Hotel Rooftop Bar/Pool Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	741	21.9
Males (Adult)	60	30	3	58	72.8	741	24.9
Children	120	60	3	58	75.8	741	27.9
Total	240	120	-	-	78.2	-	30.4
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	741	61.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	777	21.5
Males (Adult)	60	30	3	58	72.8	777	24.5
Children	120	60	3	58	75.8	777	27.5
Total	240	120	-	-	78.2	-	29.9

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	813	21.1
Males (Adult)	60	30	3	58	72.8	813	24.1
Children	120	60	3	58	75.8	813	27.1
Total	239	120	-	-	78.2	-	29.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Rooftop Bar/Pool Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	719		
@ 741 feet	240	120	30.4
@ 777 feet	240	120	29.9
@ 813 feet	239	120	29.6
Amplified Speakers	-	-	61.6
Total	719	360	61.6

670 Mesquit

Open Space Noise Calculation - Public Plaza Flex Deck - Mitigated

Public Plaza Flex Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	267	31.6
Males (Adult)	73	37	3	58	73.7	267	34.7
Children	145	73	3	58	76.6	267	37.6
Total	290	146	-	-	79.1	-	40.1
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	267	64.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	331	29.7
Males (Adult)	73	37	3	58	73.7	331	32.8
Children	145	73	3	58	76.6	331	35.8
Total	290	146	-	-	79.1	-	38.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	272	31.4
Males (Adult)	73	37	3	58	73.7	272	34.5
Children	145	73	3	58	76.6	272	37.5
Total	290	146	-	-	79.1	-	39.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	340	29.5
Males (Adult)	73	37	3	58	73.7	340	32.6
Children	145	73	3	58	76.6	340	35.5
Total	290	146	-	-	79.1	-	38.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1155		
@ 267 feet	290	146	40.1
@ 331 feet	289	146	38.2
@ 272 feet	289	146	39.9
@ 340 feet	289	146	38.0
Amplified Speakers	-	-	64.4
Total	1157	584	64.5

670 Mesquit

Open Space Noise Calculation - Public Plaza Flex Deck

Public Plaza Flex Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	267	31.6
Males (Adult)	73	37	3	58	73.7	267	34.7
Children	145	73	3	58	76.6	267	37.6
Total	290	146	-	-	79.1	-	40.1
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	267	70.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	331	29.7
Males (Adult)	73	37	3	58	73.7	331	32.8
Children	145	73	3	58	76.6	331	35.8
Total	290	146	-	-	79.1	-	38.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	272	31.4
Males (Adult)	73	37	3	58	73.7	272	34.5
Children	145	73	3	58	76.6	272	37.5
Total	290	146	-	-	79.1	-	39.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	340	29.5
Males (Adult)	73	37	3	58	73.7	340	32.6
Children	145	73	3	58	76.6	340	35.5
Total	290	146	-	-	79.1	-	38.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1155		
@ 267 feet	290	146	40.1
@ 331 feet	289	146	38.2
@ 272 feet	289	146	39.9
@ 340 feet	289	146	38.0
Amplified Speakers	-	-	70.4
Total	1157	584	70.4

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - DAY Mitigated

Residential Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	615	23.8
Males (Adult)	64	32	3	58	73.1	615	26.8
Children	127	64	3	58	76.1	615	29.8
Total	254	128	-	-	78.5	-	32.3
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	615	57.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	651	23.3
Males (Adult)	64	32	3	58	73.1	651	26.3
Children	127	64	3	58	76.1	651	29.3
Total	254	128	-	-	78.5	-	31.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	687	22.9
Males (Adult)	63	32	3	58	73.1	687	25.9
Children	127	64	3	58	76.1	687	28.9
Total	253	128	-	-	78.5	-	31.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 615 feet	254	128	32.3
@ 651 feet	254	128	31.8
@ 687 feet	253	128	31.3
Amplified Speakers	-	-	57.2
Total	761	384	57.2

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - NIGHT

Residential Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	615	23.8
Males (Adult)	64	32	3	58	73.1	615	26.8
Children	127	64	3	58	76.1	615	29.8
Total	254	128	-	-	78.5	-	32.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	294	30.2
Males (Adult)	63	32	3	58	73.1	294	33.2
Children	127	64	3	58	76.1	294	36.2
Total	253	128	-	-	78.5	-	38.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	294	30.2
Males (Adult)	63	32	3	58	73.1	294	33.2
Children	127	64	3	58	76.1	294	36.2
Total	253	128	-	-	78.5	-	38.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 615 feet	254	128	32.3
@ 294 feet	253	128	38.7
@ 294 feet	253	128	38.7
Total	760	384	42.1

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - DAY

Residential Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	615	23.8
Males (Adult)	64	32	3	58	73.1	615	26.8
Children	127	64	3	58	76.1	615	29.8
Total	254	128	-	-	78.5	-	32.3
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	615	63.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	651	23.3
Males (Adult)	64	32	3	58	73.1	651	26.3
Children	127	64	3	58	76.1	651	29.3
Total	254	128	-	-	78.5	-	31.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	687	22.9
Males (Adult)	63	32	3	58	73.1	687	25.9
Children	127	64	3	58	76.1	687	28.9
Total	253	128	-	-	78.5	-	31.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 615 feet	254	128	32.3
@ 651 feet	254	128	31.8
@ 687 feet	253	128	31.3
Amplified Speakers	-	-	63.2
Total	761	384	63.2

670 Mesquit

Open Space Noise Calculation - River Balcony North - DAY Mitigated

River Balcony North (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	851	17.4
Males (Adult)	28	14	3	58	69.5	851	20.4
Children	54	27	3	58	72.3	851	23.3
Total	109	55	-	-	74.8	-	25.8
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	851	54.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	916	16.8
Males (Adult)	27	14	3	58	69.5	916	19.8
Children	54	27	3	58	72.3	916	22.6
Total	108	55	-	-	74.8	-	25.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	108						
Females (Adult)	27	14	3	55	66.5	981	16.2
Males (Adult)	27	14	3	58	69.5	981	19.2
Children	54	27	3	58	72.3	981	22.0
Total	108	55	-	-	74.8	-	24.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	325		
@ 851 feet	109	55	25.8
@ 916 feet	108	55	25.1
@ 981 feet	108	55	24.5
Amplified Speakers	-	-	54.4
Total w/ Shielding	325	165	44.4
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony North - DAY

River Balcony North (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	851	17.4
Males (Adult)	28	14	3	58	69.5	851	20.4
Children	54	27	3	58	72.3	851	23.3
Total	109	55	-	-	74.8	-	25.8
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	851	60.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	916	16.8
Males (Adult)	27	14	3	58	69.5	916	19.8
Children	54	27	3	58	72.3	916	22.6
Total	108	55	-	-	74.8	-	25.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	108						
Females (Adult)	27	14	3	55	66.5	981	16.2
Males (Adult)	27	14	3	58	69.5	981	19.2
Children	54	27	3	58	72.3	981	22.0
Total	108	55	-	-	74.8	-	24.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	325		
@ 851 feet	109	55	25.8
@ 916 feet	108	55	25.1
@ 981 feet	108	55	24.5
Amplified Speakers	-	-	60.4
Total w/ Shielding	325	165	50.4
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony South - DAY Mitigated

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	351	19.7
Males (Adult)	9	5	3	58	65.0	351	23.6
Children	17	9	3	58	67.5	351	26.2
Total	34	18	-	-	70.0	-	28.7
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	351	62.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	376	19.1
Males (Adult)	8	4	3	58	64.0	376	22.1
Children	16	8	3	58	67.0	376	25.1
Total	32	16	-	-	69.5	-	27.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	356	19.5
Males (Adult)	8	4	3	58	64.0	356	22.5
Children	16	8	3	58	67.0	356	25.5
Total	32	16	-	-	69.5	-	28.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 351 feet	34	18	28.7
@ 376 feet	32	16	27.5
@ 356 feet	32	16	28.0
Amplified Speakers	-	-	62.1
Total w/ Shielding	98	50	52.1
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony South - NIGHT

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	351	19.7
Males (Adult)	9	5	3	58	65.0	351	23.6
Children	17	9	3	58	67.5	351	26.2
Total	34	18	-	-	70.0	-	28.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	376	19.1
Males (Adult)	8	4	3	58	64.0	376	22.1
Children	16	8	3	58	67.0	376	25.1
Total	32	16	-	-	69.5	-	27.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	356	19.5
Males (Adult)	8	4	3	58	64.0	356	22.5
Children	16	8	3	58	67.0	356	25.5
Total	32	16	-	-	69.5	-	28.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 351 feet	34	18	28.7
@ 376 feet	32	16	27.5
@ 356 feet	32	16	28.0
Amplified Speakers	-	-	0.0
Total w/ Shielding	98	50	22.9
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony South - DAY

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	351	19.7
Males (Adult)	9	5	3	58	65.0	351	23.6
Children	17	9	3	58	67.5	351	26.2
Total	34	18	-	-	70.0	-	28.7
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	351	68.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	376	19.1
Males (Adult)	8	4	3	58	64.0	376	22.1
Children	16	8	3	58	67.0	376	25.1
Total	32	16	-	-	69.5	-	27.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	356	19.5
Males (Adult)	8	4	3	58	64.0	356	22.5
Children	16	8	3	58	67.0	356	25.5
Total	32	16	-	-	69.5	-	28.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 351 feet	34	18	28.7
@ 376 feet	32	16	27.5
@ 356 feet	32	16	28.0
Amplified Speakers	-	-	68.1
Total w/ Shielding	98	50	58.1
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Sculpture Garden - Mitigated

Sculpture Garden (SW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	392	27.4
Males (Adult)	60	30	3	58	72.8	392	30.4
Children	120	60	3	58	75.8	392	33.5
Total	240	120	-	-	78.2	-	35.9
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	392	61.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (SE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	435	26.5
Males (Adult)	60	30	3	58	72.8	435	29.5
Children	120	60	3	58	75.8	435	32.6
Total	240	120	-	-	78.2	-	35.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	422	26.8
Males (Adult)	60	30	3	58	72.8	422	29.8
Children	120	60	3	58	75.8	422	32.8
Total	240	120	-	-	78.2	-	35.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	461	26.0
Males (Adult)	60	30	3	58	72.8	461	29.0
Children	120	60	3	58	75.8	461	32.0
Total	239	120	-	-	78.2	-	34.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	959		
@ 392 feet	240	120	35.9
@ 435 feet	240	120	35.0
@ 422 feet	240	120	35.2
@ 461 feet	239	120	34.5
Amplified Speakers	-	-	61.1
Total	959	480	61.1

670 Mesquit
Open Space Noise Calculation - Sculpture Garden

Sculpture Garden (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	392	27.4
Males (Adult)	60	30	3	58	72.8	392	30.4
Children	120	60	3	58	75.8	392	33.5
Total	240	120	-	-	78.2	-	35.9
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	392	67.1

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	435	26.5
Males (Adult)	60	30	3	58	72.8	435	29.5
Children	120	60	3	58	75.8	435	32.6
Total	240	120	-	-	78.2	-	35.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	422	26.8
Males (Adult)	60	30	3	58	72.8	422	29.8
Children	120	60	3	58	75.8	422	32.8
Total	240	120	-	-	78.2	-	35.2

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	461	26.0
Males (Adult)	60	30	3	58	72.8	461	29.0
Children	120	60	3	58	75.8	461	32.0
Total	239	120	-	-	78.2	-	34.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	959		
@ 392 feet	240	120	35.9
@ 435 feet	240	120	35.0
@ 422 feet	240	120	35.2
@ 461 feet	239	120	34.5
Amplified Speakers	-	-	67.1
Total	959	480	67.1

670 Mesquit
Open Space Noise Calculation - Work/Breakout Deck

Work/Breakout Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	486	28.6
Males (Adult)	119	60	3	58	75.8	486	31.6
Total	238	120	-	-	77.5	-	33.4

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	521	28.0
Males (Adult)	119	60	3	58	75.8	521	31.0
Total	238	120	-	-	77.5	-	32.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	538	27.7
Males (Adult)	119	60	3	58	75.8	538	30.7
Total	238	120	-	-	77.5	-	32.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	574	27.1
Males (Adult)	119	60	3	58	75.8	574	30.1
Total	238	120	-	-	77.5	-	31.9

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	952		
@ 486 feet	238	120	33.4
@ 521 feet	238	120	32.8
@ 538 feet	238	120	32.5
@ 574 feet	238	120	31.9
Total	952	480	38.7

670 Mesquit

Open Space Noise Calculation - 7th Street Terrace - Mitigated

7th Street Terrace

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	119						
Females (Adult)	29	15	3	55	66.8	135	33.7
Males (Adult)	30	15	3	58	69.8	135	36.7
Children	60	30	3	58	72.8	135	39.7
Total	119	60	-	-	75.2	-	42.1
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	135	70.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

7th Street Terrace (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity @ 135 feet	474		
Amplified Speakers @ 365 feet	119	60	42.1
	-	-	70.4
Total	119	60	70.4

670 Mesquit

Open Space Noise Calculation - 7th Street Terrace

7th Street Terrace

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	119						
Females (Adult)	29	15	3	55	66.8	135	33.7
Males (Adult)	30	15	3	58	69.8	135	36.7
Children	60	30	3	58	72.8	135	39.7
Total	119	60	-	-	75.2	-	42.1
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	135	76.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

7th Street Terrace (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	474		
@ 135 feet	119	60	42.1
Amplified Speakers @ 365 feet	-	-	76.4
Total	119	60	76.4

670 Mesquit

Open Space Noise Calculation - Special Programming with Deck - Mitigated

Special Programming with Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2934						
Females (Adult)	733	367	3	55	80.6	177	45.2
Males (Adult)	734	367	3	58	83.6	177	48.2
Children	1467	734	3	58	86.7	177	51.2
Total	2934	1468	-	-	89.1	-	53.7
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	177	68.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	621	34.3
Males (Adult)	733	367	3	58	83.6	621	37.3
Children	1467	734	3	58	86.7	621	40.3
Total	2933	1468	-	-	89.1	-	42.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	1061	29.7
Males (Adult)	733	367	3	58	83.6	1061	32.7
Children	1467	734	3	58	86.7	1061	35.7
Total	2933	1468	-	-	89.1	-	38.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	8800		
@ 177 feet	2934	1468	53.7
@ 621 feet	2933	1468	42.8
@ 1061 feet	2933	1468	38.1
Amplified Speakers @180 feet	-	-	68.0
Total	8800	4404	68.2

670 Mesquit
Open Space Noise Calculation - Fitness Deck

Fitness Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	357	29.1
Males (Adult)	72	36	3	58	73.6	357	32.1
Children	143	72	3	58	76.6	357	35.1
Total	286	144	-	-	79.0	-	37.5
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	357	67.9

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	389	28.3
Males (Adult)	72	36	3	58	73.6	389	31.3
Children	143	72	3	58	76.6	389	34.3
Total	286	144	-	-	79.0	-	36.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	416	27.7
Males (Adult)	72	36	3	58	73.6	416	30.7
Children	143	72	3	58	76.6	416	33.7
Total	286	144	-	-	79.0	-	36.2

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	448	27.1
Males (Adult)	72	36	3	58	73.6	448	30.1
Children	143	72	3	58	76.6	448	33.1
Total	286	144	-	-	79.0	-	35.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1144		
@ 357 feet	286	144	37.5
@ 389 feet	572	288	39.2
@ 416 feet	286	144	36.2
Amplified Speakers	-	-	67.9
Total	1144	576	67.9

670 Mesquit
Open Space Noise Calculation - Mesquit Paseo - Mitigated

Mesquit Paseo (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	415	29.0
Males (Adult)	97	49	3	58	74.9	415	32.1
Children	194	97	3	58	77.9	415	35.0
Total	387	194	-	-	80.3	-	37.5
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	415	60.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	575	26.2
Males (Adult)	97	49	3	58	74.9	575	29.3
Children	194	97	3	58	77.9	575	32.2
Total	387	194	-	-	80.3	-	34.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	750	23.9
Males (Adult)	96	48	3	58	74.8	750	26.9
Children	194	97	3	58	77.9	750	29.9
Total	386	193	-	-	80.3	-	32.3

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1161		
@ 415 feet	387	194	37.5
@ 575 feet	387	194	34.7
@ 750 feet	386	193	32.3
Amplified Speakers	-	-	60.6
Total w/ Shielding	1160	581	50.6
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Mesquit Paseo

Mesquit Paseo (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	415	29.0
Males (Adult)	97	49	3	58	74.9	415	32.1
Children	194	97	3	58	77.9	415	35.0
Total	387	194	-	-	80.3	-	37.5
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	415	66.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	575	26.2
Males (Adult)	97	49	3	58	74.9	575	29.3
Children	194	97	3	58	77.9	575	32.2
Total	387	194	-	-	80.3	-	34.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	750	23.9
Males (Adult)	96	48	3	58	74.8	750	26.9
Children	194	97	3	58	77.9	750	29.9
Total	386	193	-	-	80.3	-	32.3

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1161		
@ 415 feet	387	194	37.5
@ 575 feet	387	194	34.7
@ 750 feet	386	193	32.3
Amplified Speakers	-	-	66.6
Total w/ Shielding	1160	581	56.6
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Northern Landscape Area

Northern Landscaped Area (Southern Boundary W)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1390	15.5
Males (Adult)	48	24	3	58	71.8	1390	18.5
Children	95	48	3	58	74.8	1390	21.5
Total	190	96	-	-	77.2	-	23.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1400	15.4
Males (Adult)	48	24	3	58	71.8	1400	18.4
Children	95	48	3	58	74.8	1400	21.4
Total	190	96	-	-	77.2	-	23.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary E)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1400	15.4
Males (Adult)	48	24	3	58	71.8	1400	18.4
Children	95	48	3	58	74.8	1400	21.4
Total	190	96	-	-	77.2	-	23.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center W)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1445	15.1
Males (Adult)	48	24	3	58	71.8	1445	18.1
Children	95	48	3	58	74.8	1445	21.2
Total	190	96	-	-	77.2	-	23.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1445	15.1
Males (Adult)	48	24	3	58	71.8	1445	18.1
Children	95	48	3	58	74.8	1445	21.2
Total	190	96	-	-	77.2	-	23.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center E)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1445	15.1
Males (Adult)	48	24	3	58	71.8	1445	18.1
Children	95	48	3	58	74.8	1445	21.2
Total	190	96	-	-	77.2	-	23.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Northern Boundary W)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1500	14.8
Males (Adult)	48	24	3	58	71.8	1500	17.8
Children	95	48	3	58	74.8	1500	20.8
Total	190	96	-	-	77.2	-	23.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Northern Boundary Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1500	14.8
Males (Adult)	48	24	3	58	71.8	1500	17.8
Children	95	48	3	58	74.8	1500	20.8
Total	190	96	-	-	77.2	-	23.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary E)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	189						
Females (Adult)	47	24	3	55	68.8	1500	14.8
Males (Adult)	47	24	3	58	71.8	1500	17.8
Children	95	48	3	58	74.8	1500	20.8
Total	189	96	-	-	77.2	-	23.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1709		
@ 1390 feet	190	96	23.9
@ 1400 feet	380	192	26.9
@ 1445 feet	190	96	23.6
@ 1445 feet	380	192	26.6
@ 1500 feet	190	96	23.3
@ 1500 feet	379	192	26.3
Total w/ Shielding	1709	864	23.1
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Hotel Rooftop Bar/Pool Deck - DAY Mitigated

Hotel Rooftop Bar/Pool Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	914	20.1
Males (Adult)	60	30	3	58	72.8	914	23.1
Children	120	60	3	58	75.8	914	26.1
Total	240	120	-	-	78.2	-	28.5
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	914	53.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	980	19.5
Males (Adult)	60	30	3	58	72.8	980	22.5
Children	120	60	3	58	75.8	980	25.5
Total	240	120	-	-	78.2	-	27.9

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	1036	19.0
Males (Adult)	60	30	3	58	72.8	1036	22.0
Children	120	60	3	58	75.8	1036	25.0
Total	239	120	-	-	78.2	-	27.4

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Rooftop Bar/Pool Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	719		
@ 914 feet	240	120	28.5
@ 980 feet	240	120	27.9
@ 1036 feet	239	120	27.4
Amplified Speakers	-	-	53.7
Total	719	360	53.8

670 Mesquit
Open Space Noise Calculation - Hotel Rooftop Bar/Pool Deck - NIGHT Mitigated

Hotel Rooftop Bar/Pool Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	914	20.1
Males (Adult)	60	30	3	58	72.8	914	23.1
Children	120	60	3	58	75.8	914	26.1
Total	240	120	-	-	78.2	-	28.5
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	914	53.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	980	19.5
Males (Adult)	60	30	3	58	72.8	980	22.5
Children	120	60	3	58	75.8	980	25.5
Total	240	120	-	-	78.2	-	27.9

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	1036	19.0
Males (Adult)	60	30	3	58	72.8	1036	22.0
Children	120	60	3	58	75.8	1036	25.0
Total	239	120	-	-	78.2	-	27.4

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Rooftop Bar/Pool Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	719		
@ 914 feet	240	120	28.5
@ 980 feet	240	120	27.9
@ 1036 feet	239	120	27.4
Amplified Speakers	-	-	53.7
Total	719	360	53.8

670 Mesquit
Open Space Noise Calculation - Hotel Rooftop Bar/Pool Deck

Hotel Rooftop Bar/Pool Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	914	20.1
Males (Adult)	60	30	3	58	72.8	914	23.1
Children	120	60	3	58	75.8	914	26.1
Total	240	120	-	-	78.2	-	28.5
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	914	59.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	980	19.5
Males (Adult)	60	30	3	58	72.8	980	22.5
Children	120	60	3	58	75.8	980	25.5
Total	240	120	-	-	78.2	-	27.9

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	1036	19.0
Males (Adult)	60	30	3	58	72.8	1036	22.0
Children	120	60	3	58	75.8	1036	25.0
Total	239	120	-	-	78.2	-	27.4

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Rooftop Bar/Pool Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	719		
@ 914 feet	240	120	28.5
@ 980 feet	240	120	27.9
@ 1036 feet	239	120	27.4
Amplified Speakers	-	-	59.7
Total	719	360	59.7

670 Mesquit
Open Space Noise Calculation - Public Plaza Flex Deck

Public Plaza Flex Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	224	33.1
Males (Adult)	73	37	3	58	73.7	224	36.2
Children	145	73	3	58	76.6	224	39.2
Total	290	146	-	-	79.1	-	41.6
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	224	72.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	241	32.5
Males (Adult)	73	37	3	58	73.7	241	35.6
Children	145	73	3	58	76.6	241	38.5
Total	290	146	-	-	79.1	-	41.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	280	31.2
Males (Adult)	73	37	3	58	73.7	280	34.3
Children	145	73	3	58	76.6	280	37.2
Total	290	146	-	-	79.1	-	39.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	303	30.5
Males (Adult)	73	37	3	58	73.7	303	33.6
Children	145	73	3	58	76.6	303	36.5
Total	290	146	-	-	79.1	-	39.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1155		
@ 224 feet	290	146	41.6
@ 241 feet	289	146	41.0
@ 280 feet	289	146	39.7
@ 303 feet	289	146	39.0
Amplified Speakers	-	-	72.0
Total	1157	584	72.0

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - DAY Mitigated

Residential Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	778	21.8
Males (Adult)	64	32	3	58	73.1	778	24.8
Children	127	64	3	58	76.1	778	27.8
Total	254	128	-	-	78.5	-	30.2
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	778	55.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	829	21.2
Males (Adult)	64	32	3	58	73.1	829	24.2
Children	127	64	3	58	76.1	829	27.2
Total	254	128	-	-	78.5	-	29.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	881	20.7
Males (Adult)	63	32	3	58	73.1	881	23.7
Children	127	64	3	58	76.1	881	26.7
Total	253	128	-	-	78.5	-	29.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 778 feet	254	128	30.2
@ 829 feet	254	128	29.7
@ 881 feet	253	128	29.1
Amplified Speakers	-	-	55.1
Total	761	384	55.2

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - NIGHT

Residential Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	778	21.8
Males (Adult)	64	32	3	58	73.1	778	24.8
Children	127	64	3	58	76.1	778	27.8
Total	254	128	-	-	78.5	-	30.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	294	30.2
Males (Adult)	63	32	3	58	73.1	294	33.2
Children	127	64	3	58	76.1	294	36.2
Total	253	128	-	-	78.5	-	38.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	294	30.2
Males (Adult)	63	32	3	58	73.1	294	33.2
Children	127	64	3	58	76.1	294	36.2
Total	253	128	-	-	78.5	-	38.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 778 feet	254	128	30.2
@ 294 feet	253	128	38.7
@ 294 feet	253	128	38.7
Total	760	384	42.0

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - DAY

Residential Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	778	21.8
Males (Adult)	64	32	3	58	73.1	778	24.8
Children	127	64	3	58	76.1	778	27.8
Total	254	128	-	-	78.5	-	30.2
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	778	61.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	829	21.2
Males (Adult)	64	32	3	58	73.1	829	24.2
Children	127	64	3	58	76.1	829	27.2
Total	254	128	-	-	78.5	-	29.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	881	20.7
Males (Adult)	63	32	3	58	73.1	881	23.7
Children	127	64	3	58	76.1	881	26.7
Total	253	128	-	-	78.5	-	29.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 778 feet	254	128	30.2
@ 829 feet	254	128	29.7
@ 881 feet	253	128	29.1
Amplified Speakers	-	-	61.1
Total	761	384	61.1

670 Mesquit

Open Space Noise Calculation - River Balcony North - DAY Mitigated

River Balcony North (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	1051	15.6
Males (Adult)	28	14	3	58	69.5	1051	18.6
Children	54	27	3	58	72.3	1051	21.4
Total	109	55	-	-	74.8	-	23.9
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	1051	52.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	1136	14.9
Males (Adult)	27	14	3	58	69.5	1136	17.9
Children	54	27	3	58	72.3	1136	20.7
Total	108	55	-	-	74.8	-	23.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	108						
Females (Adult)	27	14	3	55	66.5	1226	14.2
Males (Adult)	27	14	3	58	69.5	1226	17.2
Children	54	27	3	58	72.3	1226	20.1
Total	108	55	-	-	74.8	-	22.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	325		
@ 1051 feet	109	55	23.9
@ 1136 feet	108	55	23.2
@ 1226 feet	108	55	22.6
Amplified Speakers	-	-	52.5
Total w/ Shielding	325	165	42.5
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony North - NIGHT

River Balcony North (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	1051	15.6
Males (Adult)	28	14	3	58	69.5	1051	18.6
Children	54	27	3	58	72.3	1051	21.4
Total	109	55	-	-	74.8	-	23.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	1136	14.9
Males (Adult)	27	14	3	58	69.5	1136	17.9
Children	54	27	3	58	72.3	1136	20.7
Total	108	55	-	-	74.8	-	23.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	108						
Females (Adult)	27	14	3	55	66.5	1226	14.2
Males (Adult)	27	14	3	58	69.5	1226	17.2
Children	54	27	3	58	72.3	1226	20.1
Total	108	55	-	-	74.8	-	22.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	325		
@ 1051 feet	109	55	23.9
@ 1136 feet	108	55	23.2
@ 1226 feet	108	55	22.6
Amplified Speakers	-	-	0.0
Total w/ Shielding	325	165	18.1
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony North - DAY

River Balcony North (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	1051	15.6
Males (Adult)	28	14	3	58	69.5	1051	18.6
Children	54	27	3	58	72.3	1051	21.4
Total	109	55	-	-	74.8	-	23.9
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	1051	58.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	1136	14.9
Males (Adult)	27	14	3	58	69.5	1136	17.9
Children	54	27	3	58	72.3	1136	20.7
Total	108	55	-	-	74.8	-	23.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	108						
Females (Adult)	27	14	3	55	66.5	1226	14.2
Males (Adult)	27	14	3	58	69.5	1226	17.2
Children	54	27	3	58	72.3	1226	20.1
Total	108	55	-	-	74.8	-	22.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	325		
@ 1051 feet	109	55	23.9
@ 1136 feet	108	55	23.2
@ 1226 feet	108	55	22.6
Amplified Speakers	-	-	58.5
Total w/ Shielding	325	165	48.5
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony South - DAY Mitigated

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	162	26.4
Males (Adult)	9	5	3	58	65.0	162	30.3
Children	17	9	3	58	67.5	162	32.9
Total	34	18	-	-	70.0	-	35.4
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	162	68.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	217	23.8
Males (Adult)	8	4	3	58	64.0	217	26.8
Children	16	8	3	58	67.0	217	29.8
Total	32	16	-	-	69.5	-	32.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	276	21.7
Males (Adult)	8	4	3	58	64.0	276	24.7
Children	16	8	3	58	67.0	276	27.8
Total	32	16	-	-	69.5	-	30.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 162 feet	34	18	35.4
@ 217 feet	32	16	32.3
@ 276 feet	32	16	30.2
Amplified Speakers	-	-	68.8
Total w/ Shielding	98	50	58.8
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony South - NIGHT

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	162	26.4
Males (Adult)	9	5	3	58	65.0	162	30.3
Children	17	9	3	58	67.5	162	32.9
Total	34	18	-	-	70.0	-	35.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	217	23.8
Males (Adult)	8	4	3	58	64.0	217	26.8
Children	16	8	3	58	67.0	217	29.8
Total	32	16	-	-	69.5	-	32.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	276	21.7
Males (Adult)	8	4	3	58	64.0	276	24.7
Children	16	8	3	58	67.0	276	27.8
Total	32	16	-	-	69.5	-	30.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 162 feet	34	18	35.4
@ 217 feet	32	16	32.3
@ 276 feet	32	16	30.2
Amplified Speakers	-	-	0.0
Total w/ Shielding	98	50	27.9
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony South - DAY

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	162	26.4
Males (Adult)	9	5	3	58	65.0	162	30.3
Children	17	9	3	58	67.5	162	32.9
Total	34	18	-	-	70.0	-	35.4
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	162	74.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	217	23.8
Males (Adult)	8	4	3	58	64.0	217	26.8
Children	16	8	3	58	67.0	217	29.8
Total	32	16	-	-	69.5	-	32.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	276	21.7
Males (Adult)	8	4	3	58	64.0	276	24.7
Children	16	8	3	58	67.0	276	27.8
Total	32	16	-	-	69.5	-	30.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 162 feet	34	18	35.4
@ 217 feet	32	16	32.3
@ 276 feet	32	16	30.2
Amplified Speakers	-	-	74.8
Total w/ Shielding	98	50	64.8
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Sculpture Garden - Mitigated

Sculpture Garden (SW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	493	25.5
Males (Adult)	60	30	3	58	72.8	493	28.5
Children	120	60	3	58	75.8	493	31.5
Total	240	120	-	-	78.2	-	33.9
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	493	59.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (SE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	524	24.9
Males (Adult)	60	30	3	58	72.8	524	27.9
Children	120	60	3	58	75.8	524	30.9
Total	240	120	-	-	78.2	-	33.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	575	24.1
Males (Adult)	60	30	3	58	72.8	575	27.1
Children	120	60	3	58	75.8	575	30.1
Total	240	120	-	-	78.2	-	32.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	589	23.9
Males (Adult)	60	30	3	58	72.8	589	26.9
Children	120	60	3	58	75.8	589	29.9
Total	239	120	-	-	78.2	-	32.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	959		
@ 493 feet	240	120	33.9
@ 524 feet	240	120	33.4
@ 575 feet	240	120	32.6
@ 589 feet	239	120	32.4
Amplified Speakers	-	-	59.1
Total	959	480	59.1

670 Mesquit
Open Space Noise Calculation - Sculpture Garden

Sculpture Garden (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	493	25.5
Males (Adult)	60	30	3	58	72.8	493	28.5
Children	120	60	3	58	75.8	493	31.5
Total	240	120	-	-	78.2	-	33.9
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	493	65.1

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	524	24.9
Males (Adult)	60	30	3	58	72.8	524	27.9
Children	120	60	3	58	75.8	524	30.9
Total	240	120	-	-	78.2	-	33.4

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	575	24.1
Males (Adult)	60	30	3	58	72.8	575	27.1
Children	120	60	3	58	75.8	575	30.1
Total	240	120	-	-	78.2	-	32.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	589	23.9
Males (Adult)	60	30	3	58	72.8	589	26.9
Children	120	60	3	58	75.8	589	29.9
Total	239	120	-	-	78.2	-	32.4

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	959		
@ 493 feet	240	120	33.9
@ 524 feet	240	120	33.4
@ 575 feet	240	120	32.6
@ 589 feet	239	120	32.4
Amplified Speakers	-	-	65.1
Total	959	480	65.1

670 Mesquit

Open Space Noise Calculation - Work/Breakout Deck

Work/Breakout Deck (SW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	642	26.2
Males (Adult)	119	60	3	58	75.8	642	29.2
Total	238	120	-	-	77.5	-	30.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (SE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	665	25.9
Males (Adult)	119	60	3	58	75.8	665	28.9
Total	238	120	-	-	77.5	-	30.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (NW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	707	25.3
Males (Adult)	119	60	3	58	75.8	707	28.3
Total	238	120	-	-	77.5	-	30.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (NE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	726	25.1
Males (Adult)	119	60	3	58	75.8	726	28.1
Total	238	120	-	-	77.5	-	29.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	952		
@ 642 feet	238	120	30.9
@ 665 feet	238	120	30.6
@ 707 feet	238	120	30.1
@ 726 feet	238	120	29.9
Total	952	480	36.4

670 Mesquit

Open Space Noise Calculation - 7th Street Terrace - Mitigated

7th Street Terrace

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	119						
Females (Adult)	29	15	3	55	66.8	444	23.4
Males (Adult)	30	15	3	58	69.8	444	26.4
Children	60	30	3	58	72.8	444	29.4
Total	119	60	-	-	75.2	-	31.8
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	444	60.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

7th Street Terrace (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity @ 444 feet	474		
Amplified Speakers @ 365 feet	119	60	31.8
Total w/ Shielding	119	60	50.0
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - 7th Street Terrace

7th Street Terrace							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	119						
Females (Adult)	29	15	3	55	66.8	444	23.4
Males (Adult)	30	15	3	58	69.8	444	26.4
Children	60	30	3	58	72.8	444	29.4
Total	119	60	-	-	75.2	-	31.8
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	444	66.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

7th Street Terrace (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity @ 444 feet	474		
Amplified Speakers @ 365 feet	119	60	31.8
Total w/ Shielding	119	60	56.0
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Special Programming with Deck - Mitigated

Special Programming with Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2934						
Females (Adult)	733	367	3	55	80.6	531	35.7
Males (Adult)	734	367	3	58	83.6	531	38.7
Children	1467	734	3	58	86.7	531	41.7
Total	2934	1468	-	-	89.1	-	44.1
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	531	58.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	721	33.0
Males (Adult)	733	367	3	58	83.6	721	36.0
Children	1467	734	3	58	86.7	721	39.0
Total	2933	1468	-	-	89.1	-	41.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	721	33.0
Males (Adult)	733	367	3	58	83.6	721	36.0
Children	1467	734	3	58	86.7	721	39.0
Total	2933	1468	-	-	89.1	-	41.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	8800		
@ 531 feet	2934	1468	44.1
@ 721 feet	2933	1468	41.5
@ 721 feet	2933	1468	41.5
Amplified Speakers @180 feet	-	-	58.5
Total w/ Shielding	8800	4404	48.8
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Fitness Deck - Mitigated

Fitness Deck (SW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	453	27.0
Males (Adult)	72	36	3	58	73.6	453	30.0
Children	143	72	3	58	76.6	453	33.0
Total	286	144	-	-	79.0	-	35.4
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	453	59.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (SE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	542	25.4
Males (Adult)	72	36	3	58	73.6	542	28.4
Children	143	72	3	58	76.6	542	31.4
Total	286	144	-	-	79.0	-	33.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	462	26.8
Males (Adult)	72	36	3	58	73.6	462	29.8
Children	143	72	3	58	76.6	462	32.8
Total	286	144	-	-	79.0	-	35.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	547	25.3
Males (Adult)	72	36	3	58	73.6	547	28.3
Children	143	72	3	58	76.6	547	31.4
Total	286	144	-	-	79.0	-	33.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1144		
@ 453 feet	286	144	35.4
@ 542 feet	572	288	36.8
@ 462 feet	286	144	35.3
Amplified Speakers	-	-	59.8
Total	1144	576	59.9

670 Mesquit
Open Space Noise Calculation - Fitness Deck

Fitness Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	453	27.0
Males (Adult)	72	36	3	58	73.6	453	30.0
Children	143	72	3	58	76.6	453	33.0
Total	286	144	-	-	79.0	-	35.4
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	453	65.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	542	25.4
Males (Adult)	72	36	3	58	73.6	542	28.4
Children	143	72	3	58	76.6	542	31.4
Total	286	144	-	-	79.0	-	33.9

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	462	26.8
Males (Adult)	72	36	3	58	73.6	462	29.8
Children	143	72	3	58	76.6	462	32.8
Total	286	144	-	-	79.0	-	35.3

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	547	25.3
Males (Adult)	72	36	3	58	73.6	547	28.3
Children	143	72	3	58	76.6	547	31.4
Total	286	144	-	-	79.0	-	33.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1144		
@ 453 feet	286	144	35.4
@ 542 feet	572	288	36.8
@ 462 feet	286	144	35.3
Amplified Speakers	-	-	65.8
Total	1144	576	65.9

670 Mesquit

Open Space Noise Calculation - Mesquit Paseo - Mitigated

Mesquit Paseo (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft)¹	Reference Noise Level (dBA)¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	330	31.0
Males (Adult)	97	49	3	58	74.9	330	34.1
Children	194	97	3	58	77.9	330	37.0
Total	387	194	-	-	80.3	-	39.5
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	330	62.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft)¹	Reference Noise Level (dBA)¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	370	30.0
Males (Adult)	97	49	3	58	74.9	370	33.1
Children	194	97	3	58	77.9	370	36.0
Total	387	194	-	-	80.3	-	38.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft)¹	Reference Noise Level (dBA)¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	465	28.0
Males (Adult)	96	48	3	58	74.8	465	31.0
Children	194	97	3	58	77.9	465	34.1
Total	386	193	-	-	80.3	-	36.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1161		
@ 330 feet	387	194	39.5
@ 370 feet	387	194	38.5
@ 465 feet	386	193	36.5
Amplified Speakers	-	-	62.6
Total w/ Shielding	1160	581	52.6
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Mesquit Paseo

Mesquit Paseo (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	330	31.0
Males (Adult)	97	49	3	58	74.9	330	34.1
Children	194	97	3	58	77.9	330	37.0
Total	387	194	-	-	80.3	-	39.5
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	330	68.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	370	30.0
Males (Adult)	97	49	3	58	74.9	370	33.1
Children	194	97	3	58	77.9	370	36.0
Total	387	194	-	-	80.3	-	38.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	387						
Females (Adult)	96	48	3	55	71.8	465	28.0
Males (Adult)	96	48	3	58	74.8	465	31.0
Children	194	97	3	58	77.9	465	34.1
Total	386	193	-	-	80.3	-	36.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Mesquit Paseo (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1161		
@ 330 feet	387	194	39.5
@ 370 feet	387	194	38.5
@ 465 feet	386	193	36.5
Amplified Speakers	-	-	68.6
Total w/ Shielding	1160	581	58.6
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Northern Landscape Area

Northern Landscaped Area (Southern Boundary W)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	930	19.0
Males (Adult)	48	24	3	58	71.8	930	22.0
Children	95	48	3	58	74.8	930	25.0
Total	190	96	-	-	77.2	-	27.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	945	18.8
Males (Adult)	48	24	3	58	71.8	945	21.8
Children	95	48	3	58	74.8	945	24.8
Total	190	96	-	-	77.2	-	27.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary E)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	950	18.8
Males (Adult)	48	24	3	58	71.8	950	21.8
Children	95	48	3	58	74.8	950	24.8
Total	190	96	-	-	77.2	-	27.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center W)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	985	18.5
Males (Adult)	48	24	3	58	71.8	985	21.5
Children	95	48	3	58	74.8	985	24.5
Total	190	96	-	-	77.2	-	26.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1000	18.3
Males (Adult)	48	24	3	58	71.8	1000	21.3
Children	95	48	3	58	74.8	1000	24.4
Total	190	96	-	-	77.2	-	26.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center E)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1010	18.3
Males (Adult)	48	24	3	58	71.8	1010	21.3
Children	95	48	3	58	74.8	1010	24.3
Total	190	96	-	-	77.2	-	26.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Northern Boundary W)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1030	18.1
Males (Adult)	48	24	3	58	71.8	1030	21.1
Children	95	48	3	58	74.8	1030	24.1
Total	190	96	-	-	77.2	-	26.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Northern Boundary Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	1045	18.0
Males (Adult)	48	24	3	58	71.8	1045	21.0
Children	95	48	3	58	74.8	1045	24.0
Total	190	96	-	-	77.2	-	26.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary E)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	189						
Females (Adult)	47	24	3	55	68.8	1050	17.9
Males (Adult)	47	24	3	58	71.8	1050	20.9
Children	95	48	3	58	74.8	1050	23.9
Total	189	96	-	-	77.2	-	26.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1709		
@ 930 feet	190	96	27.4
@ 945 & 950 feet	380	192	30.3
@ 985 feet	190	96	26.9
@ 1000 & 1010 feet	380	192	29.8
@ 1030 feet	190	96	26.5
@ 1045 & 1050 feet	379	192	29.4
Total w/ Shielding	1709	864	26.4
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Hotel Rooftop Bar/Pool Deck - DAY Mitigated

Hotel Rooftop Bar/Pool Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	649	23.1
Males (Adult)	60	30	3	58	72.8	649	26.1
Children	120	60	3	58	75.8	649	29.1
Total	240	120	-	-	78.2	-	31.5
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	649	56.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	688	22.6
Males (Adult)	60	30	3	58	72.8	688	25.6
Children	120	60	3	58	75.8	688	28.6
Total	240	120	-	-	78.2	-	31.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	710	22.3
Males (Adult)	60	30	3	58	72.8	710	25.3
Children	120	60	3	58	75.8	710	28.3
Total	239	120	-	-	78.2	-	30.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Rooftop Bar/Pool Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	719		
@ 649 feet	240	120	31.5
@ 688 feet	240	120	31.0
@ 710 feet	239	120	30.7
Amplified Speakers	-	-	56.7
Total	719	360	56.7

670 Mesquit

Open Space Noise Calculation - Hotel Rooftop Bar/Pool Deck - NIGHT Mitigated

Hotel Rooftop Bar/Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	649	23.1
Males (Adult)	60	30	3	58	72.8	649	26.1
Children	120	60	3	58	75.8	649	29.1
Total	240	120	-	-	78.2	-	31.5
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	649	56.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	688	22.6
Males (Adult)	60	30	3	58	72.8	688	25.6
Children	120	60	3	58	75.8	688	28.6
Total	240	120	-	-	78.2	-	31.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	710	22.3
Males (Adult)	60	30	3	58	72.8	710	25.3
Children	120	60	3	58	75.8	710	28.3
Total	239	120	-	-	78.2	-	30.7

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Rooftop Bar/Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	719		
@ 649 feet	240	120	31.5
@ 688 feet	240	120	31.0
@ 710 feet	239	120	30.7
Amplified Speakers	-	-	56.7
Total	719	360	56.7

670 Mesquit

Open Space Noise Calculation - Hotel Rooftop Bar/Pool Deck

Hotel Rooftop Bar/Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	649	23.1
Males (Adult)	60	30	3	58	72.8	649	26.1
Children	120	60	3	58	75.8	649	29.1
Total	240	120	-	-	78.2	-	31.5
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	649	62.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	688	22.6
Males (Adult)	60	30	3	58	72.8	688	25.6
Children	120	60	3	58	75.8	688	28.6
Total	240	120	-	-	78.2	-	31.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	710	22.3
Males (Adult)	60	30	3	58	72.8	710	25.3
Children	120	60	3	58	75.8	710	28.3
Total	239	120	-	-	78.2	-	30.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Rooftop Bar/Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	719		
@ 649 feet	240	120	31.5
@ 688 feet	240	120	31.0
@ 710 feet	239	120	30.7
Amplified Speakers	-	-	62.7
Total	719	360	62.7

670 Mesquit
Open Space Noise Calculation - Public Plaza Flex Deck

Public Plaza Flex Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	444	27.2
Males (Adult)	73	37	3	58	73.7	444	30.3
Children	145	73	3	58	76.6	444	33.2
Total	290	146	-	-	79.1	-	35.7
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	444	66.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	531	25.6
Males (Adult)	73	37	3	58	73.7	531	28.7
Children	145	73	3	58	76.6	531	31.7
Total	290	146	-	-	79.1	-	34.1

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	477	26.5
Males (Adult)	73	37	3	58	73.7	477	29.7
Children	145	73	3	58	76.6	477	32.6
Total	290	146	-	-	79.1	-	35.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	550	25.3
Males (Adult)	73	37	3	58	73.7	550	28.4
Children	145	73	3	58	76.6	550	31.4
Total	290	146	-	-	79.1	-	33.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1155		
@ 444 feet	290	146	35.7
@ 531 feet	289	146	34.1
@ 477 feet	289	146	35.0
@ 550 feet	289	146	33.8
Amplified Speakers	-	-	66.0
Total	1157	584	66.0

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - DAY Mitigated

Residential Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	572	24.4
Males (Adult)	64	32	3	58	73.1	572	27.4
Children	127	64	3	58	76.1	572	30.5
Total	254	128	-	-	78.5	-	32.9
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	572	57.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	594	24.1
Males (Adult)	64	32	3	58	73.1	594	27.1
Children	127	64	3	58	76.1	594	30.1
Total	254	128	-	-	78.5	-	32.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	607	23.9
Males (Adult)	63	32	3	58	73.1	607	26.9
Children	127	64	3	58	76.1	607	29.9
Total	253	128	-	-	78.5	-	32.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 572 feet	254	128	32.9
@ 594 feet	254	128	32.6
@ 607 feet	253	128	32.4
Amplified Speakers	-	-	57.8
Total	761	384	57.9

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - NIGHT

Residential Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	572	24.4
Males (Adult)	64	32	3	58	73.1	572	27.4
Children	127	64	3	58	76.1	572	30.5
Total	254	128	-	-	78.5	-	32.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	294	30.2
Males (Adult)	63	32	3	58	73.1	294	33.2
Children	127	64	3	58	76.1	294	36.2
Total	253	128	-	-	78.5	-	38.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	294	30.2
Males (Adult)	63	32	3	58	73.1	294	33.2
Children	127	64	3	58	76.1	294	36.2
Total	253	128	-	-	78.5	-	38.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 572 feet	254	128	32.9
@ 294 feet	253	128	38.7
@ 294 feet	253	128	38.7
Total	760	384	42.2

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - DAY

Residential Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	572	24.4
Males (Adult)	64	32	3	58	73.1	572	27.4
Children	127	64	3	58	76.1	572	30.5
Total	254	128	-	-	78.5	-	32.9
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	572	63.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	594	24.1
Males (Adult)	64	32	3	58	73.1	594	27.1
Children	127	64	3	58	76.1	594	30.1
Total	254	128	-	-	78.5	-	32.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	607	23.9
Males (Adult)	63	32	3	58	73.1	607	26.9
Children	127	64	3	58	76.1	607	29.9
Total	253	128	-	-	78.5	-	32.4

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 572 feet	254	128	32.9
@ 594 feet	254	128	32.6
@ 607 feet	253	128	32.4
Amplified Speakers	-	-	63.8
Total	761	384	63.8

670 Mesquit

Open Space Noise Calculation - River Balcony North - DAY Mitigated

River Balcony North (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	731	18.7
Males (Adult)	28	14	3	58	69.5	731	21.7
Children	54	27	3	58	72.3	731	24.6
Total	109	55	-	-	74.8	-	27.1
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	731	55.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	796	18.0
Males (Adult)	27	14	3	58	69.5	796	21.0
Children	54	27	3	58	72.3	796	23.8
Total	108	55	-	-	74.8	-	26.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	108						
Females (Adult)	27	14	3	55	66.5	846	17.5
Males (Adult)	27	14	3	58	69.5	846	20.5
Children	54	27	3	58	72.3	846	23.3
Total	108	55	-	-	74.8	-	25.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	325		
@ 731 feet	109	55	27.1
@ 796 feet	108	55	26.3
@ 846 feet	108	55	25.8
Amplified Speakers	-	-	55.7
Total w/ Shielding	325	165	45.7
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony North - NIGHT

River Balcony North (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	731	18.7
Males (Adult)	28	14	3	58	69.5	731	21.7
Children	54	27	3	58	72.3	731	24.6
Total	109	55	-	-	74.8	-	27.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	796	18.0
Males (Adult)	27	14	3	58	69.5	796	21.0
Children	54	27	3	58	72.3	796	23.8
Total	108	55	-	-	74.8	-	26.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	108						
Females (Adult)	27	14	3	55	66.5	846	17.5
Males (Adult)	27	14	3	58	69.5	846	20.5
Children	54	27	3	58	72.3	846	23.3
Total	108	55	-	-	74.8	-	25.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	325		
@ 731 feet	109	55	27.1
@ 796 feet	108	55	26.3
@ 846 feet	108	55	25.8
Amplified Speakers	-	-	0.0
Total w/ Shielding	325	165	21.2
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony North - DAY

River Balcony North (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	731	18.7
Males (Adult)	28	14	3	58	69.5	731	21.7
Children	54	27	3	58	72.3	731	24.6
Total	109	55	-	-	74.8	-	27.1
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	731	61.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	796	18.0
Males (Adult)	27	14	3	58	69.5	796	21.0
Children	54	27	3	58	72.3	796	23.8
Total	108	55	-	-	74.8	-	26.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	108						
Females (Adult)	27	14	3	55	66.5	846	17.5
Males (Adult)	27	14	3	58	69.5	846	20.5
Children	54	27	3	58	72.3	846	23.3
Total	108	55	-	-	74.8	-	25.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	325		
@ 731 feet	109	55	27.1
@ 796 feet	108	55	26.3
@ 846 feet	108	55	25.8
Amplified Speakers	-	-	61.7
Total w/ Shielding	325	165	51.7
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony South - DAY Mitigated

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	561	15.6
Males (Adult)	9	5	3	58	65.0	561	19.6
Children	17	9	3	58	67.5	561	22.1
Total	34	18	-	-	70.0	-	24.6
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	561	58.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	586	15.2
Males (Adult)	8	4	3	58	64.0	586	18.2
Children	16	8	3	58	67.0	586	21.2
Total	32	16	-	-	69.5	-	23.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	619	14.7
Males (Adult)	8	4	3	58	64.0	619	17.7
Children	16	8	3	58	67.0	619	20.7
Total	32	16	-	-	69.5	-	23.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 561 feet	34	18	24.6
@ 586 feet	32	16	23.6
@ 619 feet	32	16	23.2
Amplified Speakers	-	-	58.0
Total w/ Shielding	98	50	48.0
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony South - NIGHT

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	561	15.6
Males (Adult)	9	5	3	58	65.0	561	19.6
Children	17	9	3	58	67.5	561	22.1
Total	34	18	-	-	70.0	-	24.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	586	15.2
Males (Adult)	8	4	3	58	64.0	586	18.2
Children	16	8	3	58	67.0	586	21.2
Total	32	16	-	-	69.5	-	23.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	619	14.7
Males (Adult)	8	4	3	58	64.0	619	17.7
Children	16	8	3	58	67.0	619	20.7
Total	32	16	-	-	69.5	-	23.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 561 feet	34	18	24.6
@ 586 feet	32	16	23.6
@ 619 feet	32	16	23.2
Amplified Speakers	-	-	0.0
Total w/ Shielding	98	50	18.6
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony South - DAY

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	561	15.6
Males (Adult)	9	5	3	58	65.0	561	19.6
Children	17	9	3	58	67.5	561	22.1
Total	34	18	-	-	70.0	-	24.6
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	561	64.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	586	15.2
Males (Adult)	8	4	3	58	64.0	586	18.2
Children	16	8	3	58	67.0	586	21.2
Total	32	16	-	-	69.5	-	23.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	619	14.7
Males (Adult)	8	4	3	58	64.0	619	17.7
Children	16	8	3	58	67.0	619	20.7
Total	32	16	-	-	69.5	-	23.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 561 feet	34	18	24.6
@ 586 feet	32	16	23.6
@ 619 feet	32	16	23.2
Amplified Speakers	-	-	64.0
Total w/ Shielding	98	50	54.0
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Sculpture Garden

Sculpture Garden (SW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	484	25.6
Males (Adult)	60	30	3	58	72.8	484	28.6
Children	120	60	3	58	75.8	484	31.6
Total	240	120	-	-	78.2	-	34.1
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	484	65.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (SE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	547	24.6
Males (Adult)	60	30	3	58	72.8	547	27.6
Children	120	60	3	58	75.8	547	30.6
Total	240	120	-	-	78.2	-	33.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	488	25.5
Males (Adult)	60	30	3	58	72.8	488	28.5
Children	120	60	3	58	75.8	488	31.6
Total	240	120	-	-	78.2	-	34.0

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	543	24.6
Males (Adult)	60	30	3	58	72.8	543	27.6
Children	120	60	3	58	75.8	543	30.6
Total	239	120	-	-	78.2	-	33.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	959		
@ 484 feet	240	120	34.1
@ 547 feet	240	120	33.0
@ 488 feet	240	120	34.0
@ 543 feet	239	120	33.1
Amplified Speakers	-	-	65.3
Total	959	480	65.3

670 Mesquit
Open Space Noise Calculation - Work/Breakout Deck

Work/Breakout Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	534	27.8
Males (Adult)	119	60	3	58	75.8	534	30.8
Total	238	120	-	-	77.5	-	32.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	583	27.0
Males (Adult)	119	60	3	58	75.8	583	30.0
Total	238	120	-	-	77.5	-	31.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	552	27.5
Males (Adult)	119	60	3	58	75.8	552	30.5
Total	238	120	-	-	77.5	-	32.2

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	601	26.7
Males (Adult)	119	60	3	58	75.8	601	29.7
Total	238	120	-	-	77.5	-	31.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	952		
@ 534 feet	238	120	32.5
@ 583 feet	238	120	31.8
@ 552 feet	238	120	32.2
@ 601 feet	238	120	31.5
Total	952	480	38.1

670 Mesquit

Open Space Noise Calculation - 7th Street Terrace - Mitigated

7th Street Terrace

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	119						
Females (Adult)	29	15	3	55	66.8	1383	13.5
Males (Adult)	30	15	3	58	69.8	1383	16.5
Children	60	30	3	58	72.8	1383	19.5
Total	119	60	-	-	75.2	-	21.9
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	1383	50.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

7th Street Terrace (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	474		
@ 1383 feet	119	60	21.9
Amplified Speakers @ 365 feet	-	-	50.1
Total w/ Shielding	119	60	40.1
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - 7th Street Terrace

7th Street Terrace

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	119						
Females (Adult)	29	15	3	55	66.8	1383	13.5
Males (Adult)	30	15	3	58	69.8	1383	16.5
Children	60	30	3	58	72.8	1383	19.5
Total	119	60	-	-	75.2	-	21.9
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	1383	56.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

7th Street Terrace (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity @ 1383 feet	474		
Amplified Speakers @ 365 feet	119	60	21.9
Total w/ Shielding	119	60	46.1
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Special Programming with Deck - Mitigated

Special Programming with Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2934						
Females (Adult)	733	367	3	55	80.6	486	36.5
Males (Adult)	734	367	3	58	83.6	486	39.5
Children	1467	734	3	58	86.7	486	42.5
Total	2934	1468	-	-	89.1	-	44.9
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	486	59.2

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	981	30.4
Males (Adult)	733	367	3	58	83.6	981	33.4
Children	1467	734	3	58	86.7	981	36.4
Total	2933	1468	-	-	89.1	-	38.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	1431	27.1
Males (Adult)	733	367	3	58	83.6	1431	30.1
Children	1467	734	3	58	86.7	1431	33.1
Total	2933	1468	-	-	89.1	-	35.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	8800		
@ 486 feet	2934	1468	44.9
@ 981 feet	2933	1468	38.8
@ 1431 feet	2933	1468	35.5
Amplified Speakers @180 feet	-	-	59.2
Total w/ Shielding	8800	4404	49.4
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Special Programming with Deck

Special Programming with Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2934						
Females (Adult)	733	367	3	55	80.6	486	36.5
Males (Adult)	734	367	3	58	83.6	486	39.5
Children	1467	734	3	58	86.7	486	42.5
Total	2934	1468	-	-	89.1	-	44.9
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	486	65.2

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	981	30.4
Males (Adult)	733	367	3	58	83.6	981	33.4
Children	1467	734	3	58	86.7	981	36.4
Total	2933	1468	-	-	89.1	-	38.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Special Programming with Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	2933						
Females (Adult)	733	367	3	55	80.6	1431	27.1
Males (Adult)	733	367	3	58	83.6	1431	30.1
Children	1467	734	3	58	86.7	1431	33.1
Total	2933	1468	-	-	89.1	-	35.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	8800		
@ 486 feet	2934	1468	44.9
@ 981 feet	2933	1468	38.8
@ 1431 feet	2933	1468	35.5
Amplified Speakers @180 feet	-	-	65.2
Total w/ Shielding	8800	4404	55.3
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Fitness Deck - Mitigated

Fitness Deck (SW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	1133	19.0
Males (Adult)	72	36	3	58	73.6	1133	22.0
Children	143	72	3	58	76.6	1133	25.0
Total	286	144	-	-	79.0	-	27.5
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	1133	51.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (SE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	1128	19.1
Males (Adult)	72	36	3	58	73.6	1128	22.1
Children	143	72	3	58	76.6	1128	25.1
Total	286	144	-	-	79.0	-	27.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NW Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	1212	18.4
Males (Adult)	72	36	3	58	73.6	1212	21.4
Children	143	72	3	58	76.6	1212	24.4
Total	286	144	-	-	79.0	-	26.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NE Quadrant)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	1217	18.4
Males (Adult)	72	36	3	58	73.6	1217	21.4
Children	143	72	3	58	76.6	1217	24.4
Total	286	144	-	-	79.0	-	26.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1144		
@ 1133 feet	286	144	27.5
@ 1128 feet	572	288	30.2
@ 1212 feet	286	144	26.9
Amplified Speakers	-	-	51.9
Total w/ Shielding	1144	576	41.9
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Fitness Deck

Fitness Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	1133	19.0
Males (Adult)	72	36	3	58	73.6	1133	22.0
Children	143	72	3	58	76.6	1133	25.0
Total	286	144	-	-	79.0	-	27.5
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	1133	57.9

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	1128	19.1
Males (Adult)	72	36	3	58	73.6	1128	22.1
Children	143	72	3	58	76.6	1128	25.1
Total	286	144	-	-	79.0	-	27.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	1212	18.4
Males (Adult)	72	36	3	58	73.6	1212	21.4
Children	143	72	3	58	76.6	1212	24.4
Total	286	144	-	-	79.0	-	26.9

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	286						
Females (Adult)	71	36	3	55	70.6	1217	18.4
Males (Adult)	72	36	3	58	73.6	1217	21.4
Children	143	72	3	58	76.6	1217	24.4
Total	286	144	-	-	79.0	-	26.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Fitness Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1144		
@ 1133 feet	286	144	27.5
@ 1128 feet	572	288	30.2
@ 1212 feet	286	144	26.9
Amplified Speakers	-	-	57.9
Total w/ Shielding	1144	576	47.9
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Northern Landscape Area

Northern Landscaped Area (Southern Boundary W)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	10	58.3
Males (Adult)	48	24	3	58	71.8	10	61.3
Children	95	48	3	58	74.8	10	64.4
Total	190	96	-	-	77.2	-	66.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	50	44.4
Males (Adult)	48	24	3	58	71.8	50	47.4
Children	95	48	3	58	74.8	50	50.4
Total	190	96	-	-	77.2	-	52.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary E)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	50	44.4
Males (Adult)	48	24	3	58	71.8	50	47.4
Children	95	48	3	58	74.8	50	50.4
Total	190	96	-	-	77.2	-	52.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center W)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	70	41.4
Males (Adult)	48	24	3	58	71.8	70	44.4
Children	95	48	3	58	74.8	70	47.5
Total	190	96	-	-	77.2	-	49.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	90	39.3
Males (Adult)	48	24	3	58	71.8	90	42.3
Children	95	48	3	58	74.8	90	45.3
Total	190	96	-	-	77.2	-	47.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Center E)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	90	39.3
Males (Adult)	48	24	3	58	71.8	90	42.3
Children	95	48	3	58	74.8	90	45.3
Total	190	96	-	-	77.2	-	47.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Northern Boundary W)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	140	35.4
Males (Adult)	48	24	3	58	71.8	140	38.4
Children	95	48	3	58	74.8	140	41.4
Total	190	96	-	-	77.2	-	43.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Northern Boundary Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	190						
Females (Adult)	47	24	3	55	68.8	160	34.3
Males (Adult)	48	24	3	58	71.8	160	37.3
Children	95	48	3	58	74.8	160	40.3
Total	190	96	-	-	77.2	-	42.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Southern Boundary E)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	189						
Females (Adult)	47	24	3	55	68.8	160	34.3
Males (Adult)	47	24	3	58	71.8	160	37.3
Children	95	48	3	58	74.8	160	40.3
Total	189	96	-	-	77.2	-	42.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Northern Landscaped Area (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1709		
@ 10 feet	190	96	66.8
@ 50 feet	380	192	55.8
@ 70 feet	190	96	49.9
@ 90 feet	380	192	50.7
@ 140 feet	190	96	43.9
@ 160 feet	379	192	45.7
Total	1709	864	67.3

670 Mesquit
Open Space Noise Calculation - Hotel Rooftop Bar/Pool Deck - NIGHT Mitigated

Hotel Rooftop Bar/Pool Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	624	23.4
Males (Adult)	60	30	3	58	72.8	624	26.4
Children	120	60	3	58	75.8	624	29.4
Total	240	120	-	-	78.2	-	31.9
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	624	57.1

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	684	22.6
Males (Adult)	60	30	3	58	72.8	684	25.6
Children	120	60	3	58	75.8	684	28.6
Total	240	120	-	-	78.2	-	31.1

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	737	22.0
Males (Adult)	60	30	3	58	72.8	737	25.0
Children	120	60	3	58	75.8	737	28.0
Total	239	120	-	-	78.2	-	30.4

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Rooftop Bar/Pool Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	719		
@ 624 feet	240	120	31.9
@ 684 feet	240	120	31.1
@ 737 feet	239	120	30.4
Amplified Speakers	-	-	57.1
Total w/ Shielding	719	360	47.1
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Hotel Rooftop Bar/Pool Deck

Hotel Rooftop Bar/Pool Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	624	23.4
Males (Adult)	60	30	3	58	72.8	624	26.4
Children	120	60	3	58	75.8	624	29.4
Total	240	120	-	-	78.2	-	31.9
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	624	63.1

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	684	22.6
Males (Adult)	60	30	3	58	72.8	684	25.6
Children	120	60	3	58	75.8	684	28.6
Total	240	120	-	-	78.2	-	31.1

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Hotel Rooftop Bar/Pool Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	737	22.0
Males (Adult)	60	30	3	58	72.8	737	25.0
Children	120	60	3	58	75.8	737	28.0
Total	239	120	-	-	78.2	-	30.4

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Rooftop Bar/Pool Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	719		
@ 624 feet	240	120	31.9
@ 684 feet	240	120	31.1
@ 737 feet	239	120	30.4
Amplified Speakers	-	-	63.1
Total w/ Shielding	719	360	53.1
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Public Plaza Flex Deck

Public Plaza Flex Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	1277	18.0
Males (Adult)	73	37	3	58	73.7	1277	21.1
Children	145	73	3	58	76.6	1277	24.1
Total	290	146	-	-	79.1	-	26.5
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	1277	56.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	1267	18.0
Males (Adult)	73	37	3	58	73.7	1267	21.2
Children	145	73	3	58	76.6	1267	24.1
Total	290	146	-	-	79.1	-	26.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	1356	17.5
Males (Adult)	73	37	3	58	73.7	1356	20.6
Children	145	73	3	58	76.6	1356	23.5
Total	290	146	-	-	79.1	-	26.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	289						
Females (Adult)	72	36	3	55	70.6	1356	17.5
Males (Adult)	73	37	3	58	73.7	1356	20.6
Children	145	73	3	58	76.6	1356	23.5
Total	290	146	-	-	79.1	-	26.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Public Plaza Flex Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	1155		
@ 1277 feet	290	146	26.5
@ 1267 feet	289	146	26.6
@ 1356 feet	289	146	26.0
@ 1356 feet	289	146	26.0
Amplified Speakers	-	-	56.8
Total w/ Shielding	1157	584	46.9
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - DAY Mitigated

Residential Pool Deck (Southern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	741	22.2
Males (Adult)	64	32	3	58	73.1	741	25.2
Children	127	64	3	58	76.1	741	28.2
Total	254	128	-	-	78.5	-	30.6
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	741	55.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	787	21.7
Males (Adult)	64	32	3	58	73.1	787	24.7
Children	127	64	3	58	76.1	787	27.7
Total	254	128	-	-	78.5	-	30.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Northern Boundary)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	848	21.0
Males (Adult)	63	32	3	58	73.1	848	24.0
Children	127	64	3	58	76.1	848	27.0
Total	253	128	-	-	78.5	-	29.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 741 feet	254	128	30.6
@ 787 feet	254	128	30.1
@ 848 feet	253	128	29.5
Amplified Speakers	-	-	55.6
Total w/ Shielding	761	384	45.6
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - NIGHT

Residential Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	741	22.2
Males (Adult)	64	32	3	58	73.1	741	25.2
Children	127	64	3	58	76.1	741	28.2
Total	254	128	-	-	78.5	-	30.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	294	30.2
Males (Adult)	63	32	3	58	73.1	294	33.2
Children	127	64	3	58	76.1	294	36.2
Total	253	128	-	-	78.5	-	38.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	294	30.2
Males (Adult)	63	32	3	58	73.1	294	33.2
Children	127	64	3	58	76.1	294	36.2
Total	253	128	-	-	78.5	-	38.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 741 feet	254	128	30.6
@ 294 feet	253	128	38.7
@ 294 feet	253	128	38.7
Total w/ Shielding	760	384	32.0
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - Residential Pool Deck - DAY

Residential Pool Deck (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	741	22.2
Males (Adult)	64	32	3	58	73.1	741	25.2
Children	127	64	3	58	76.1	741	28.2
Total	254	128	-	-	78.5	-	30.6
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	741	61.6

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	254						
Females (Adult)	63	32	3	55	70.1	787	21.7
Males (Adult)	64	32	3	58	73.1	787	24.7
Children	127	64	3	58	76.1	787	27.7
Total	254	128	-	-	78.5	-	30.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	253						
Females (Adult)	63	32	3	55	70.1	848	21.0
Males (Adult)	63	32	3	58	73.1	848	24.0
Children	127	64	3	58	76.1	848	27.0
Total	253	128	-	-	78.5	-	29.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Residential Pool Deck (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	761		
@ 741 feet	254	128	30.6
@ 787 feet	254	128	30.1
@ 848 feet	253	128	29.5
Amplified Speakers	-	-	61.6
Total w/ Shielding	761	384	51.6
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony North - DAY Mitigated

River Balcony North (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	291	26.7
Males (Adult)	28	14	3	58	69.5	291	29.7
Children	54	27	3	58	72.3	291	32.6
Total	109	55	-	-	74.8	-	35.1
Amplified Music (85 dBA Leq at 25 feet)			25	75	75.0	291	53.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	376	24.5
Males (Adult)	27	14	3	58	69.5	376	27.5
Children	54	27	3	58	72.3	376	30.4
Total	108	55	-	-	74.8	-	32.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	108						
Females (Adult)	27	14	3	55	66.5	461	22.7
Males (Adult)	27	14	3	58	69.5	461	25.7
Children	54	27	3	58	72.3	461	28.6
Total	108	55	-	-	74.8	-	31.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	325		
@ 291 feet	109	55	35.1
@ 376 feet	108	55	32.9
@ 461 feet	108	55	31.1
Amplified Speakers	-	-	53.7
Total	325	165	53.8

670 Mesquit

Open Space Noise Calculation - River Balcony North - NIGHT

River Balcony North (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	291	26.7
Males (Adult)	28	14	3	58	69.5	291	29.7
Children	54	27	3	58	72.3	291	32.6
Total	109	55	-	-	74.8	-	35.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	376	24.5
Males (Adult)	27	14	3	58	69.5	376	27.5
Children	54	27	3	58	72.3	376	30.4
Total	108	55	-	-	74.8	-	32.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	108						
Females (Adult)	27	14	3	55	66.5	461	22.7
Males (Adult)	27	14	3	58	69.5	461	25.7
Children	54	27	3	58	72.3	461	28.6
Total	108	55	-	-	74.8	-	31.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	325		
@ 291 feet	109	55	35.1
@ 376 feet	108	55	32.9
@ 461 feet	108	55	31.1
Amplified Speakers	-	-	0.0
Total	325	165	38.1

670 Mesquit

Open Space Noise Calculation - River Balcony North - DAY

River Balcony North (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	291	26.7
Males (Adult)	28	14	3	58	69.5	291	29.7
Children	54	27	3	58	72.3	291	32.6
Total	109	55	-	-	74.8	-	35.1
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	291	69.7

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	109						
Females (Adult)	27	14	3	55	66.5	376	24.5
Males (Adult)	27	14	3	58	69.5	376	27.5
Children	54	27	3	58	72.3	376	30.4
Total	108	55	-	-	74.8	-	32.9

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	108						
Females (Adult)	27	14	3	55	66.5	461	22.7
Males (Adult)	27	14	3	58	69.5	461	25.7
Children	54	27	3	58	72.3	461	28.6
Total	108	55	-	-	74.8	-	31.1

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony North (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	325		
@ 291 feet	109	55	35.1
@ 376 feet	108	55	32.9
@ 461 feet	108	55	31.1
Amplified Speakers	-	-	69.7
Total	325	165	69.7

670 Mesquit

Open Space Noise Calculation - River Balcony South - DAY Mitigated

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	1276	8.4
Males (Adult)	9	5	3	58	65.0	1276	12.4
Children	17	9	3	58	67.5	1276	15.0
Total	34	18	-	-	70.0	-	17.5
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	1276	50.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	1366	7.9
Males (Adult)	8	4	3	58	64.0	1366	10.9
Children	16	8	3	58	67.0	1366	13.9
Total	32	16	-	-	69.5	-	16.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	1146	9.4
Males (Adult)	8	4	3	58	64.0	1146	12.4
Children	16	8	3	58	67.0	1146	15.4
Total	32	16	-	-	69.5	-	17.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 1276 feet	34	18	17.5
@ 1366 feet	32	16	16.3
@ 1146 feet	32	16	17.8
Amplified Speakers	-	-	50.8
Total w/ Shielding	98	50	40.8
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony South - NIGHT

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	1276	8.4
Males (Adult)	9	5	3	58	65.0	1276	12.4
Children	17	9	3	58	67.5	1276	15.0
Total	34	18	-	-	70.0	-	17.5

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	1366	7.9
Males (Adult)	8	4	3	58	64.0	1366	10.9
Children	16	8	3	58	67.0	1366	13.9
Total	32	16	-	-	69.5	-	16.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	1146	9.4
Males (Adult)	8	4	3	58	64.0	1146	12.4
Children	16	8	3	58	67.0	1146	15.4
Total	32	16	-	-	69.5	-	17.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 1276 feet	34	18	17.5
@ 1366 feet	32	16	16.3
@ 1146 feet	32	16	17.8
Amplified Speakers	-	-	0.0
Total w/ Shielding	98	50	12.0
Reduction provided by shielding			-10

670 Mesquit

Open Space Noise Calculation - River Balcony South - DAY

River Balcony South (Northern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	33						
Females (Adult)	8	4	3	55	61.0	1276	8.4
Males (Adult)	9	5	3	58	65.0	1276	12.4
Children	17	9	3	58	67.5	1276	15.0
Total	34	18	-	-	70.0	-	17.5
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	1276	56.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Center)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	1366	7.9
Males (Adult)	8	4	3	58	64.0	1366	10.9
Children	16	8	3	58	67.0	1366	13.9
Total	32	16	-	-	69.5	-	16.3

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Southern Boundary)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	32						
Females (Adult)	8	4	3	55	61.0	1146	9.4
Males (Adult)	8	4	3	58	64.0	1146	12.4
Children	16	8	3	58	67.0	1146	15.4
Total	32	16	-	-	69.5	-	17.8

Source:

¹ American Journal of Audiology Vol. 7, p. 3 (1998)

River Balcony South (Total)

Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	98		
@ 1276 feet	34	18	17.5
@ 1366 feet	32	16	16.3
@ 1146 feet	32	16	17.8
Amplified Speakers	-	-	56.8
Total w/ Shielding	98	50	46.8
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Sculpture Garden - Mitigated

Sculpture Garden (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	993	19.4
Males (Adult)	60	30	3	58	72.8	993	22.4
Children	120	60	3	58	75.8	993	25.4
Total	240	120	-	-	78.2	-	27.8
Amplified Music (85 dBA Leq at 25 feet)			25	85	85.0	993	53.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	993	19.4
Males (Adult)	60	30	3	58	72.8	993	22.4
Children	120	60	3	58	75.8	993	25.4
Total	240	120	-	-	78.2	-	27.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	1086	18.6
Males (Adult)	60	30	3	58	72.8	1086	21.6
Children	120	60	3	58	75.8	1086	24.6
Total	240	120	-	-	78.2	-	27.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	1076	18.7
Males (Adult)	60	30	3	58	72.8	1076	21.7
Children	120	60	3	58	75.8	1076	24.7
Total	239	120	-	-	78.2	-	27.1

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	959		
@ 993 feet	240	120	27.8
@ 993 feet	240	120	27.8
@ 1086 feet	240	120	27.0
@ 1076 feet	239	120	27.1
Amplified Speakers	-	-	53.0
Total w/ Shielding	959	480	43.1
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Sculpture Garden

Sculpture Garden (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	993	19.4
Males (Adult)	60	30	3	58	72.8	993	22.4
Children	120	60	3	58	75.8	993	25.4
Total	240	120	-	-	78.2	-	27.8
Amplified Music (91 dBA Leq at 25 feet)			25	91	91.0	993	59.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	993	19.4
Males (Adult)	60	30	3	58	72.8	993	22.4
Children	120	60	3	58	75.8	993	25.4
Total	240	120	-	-	78.2	-	27.8

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	240						
Females (Adult)	60	30	3	55	69.8	1086	18.6
Males (Adult)	60	30	3	58	72.8	1086	21.6
Children	120	60	3	58	75.8	1086	24.6
Total	240	120	-	-	78.2	-	27.0

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	239						
Females (Adult)	59	30	3	55	69.8	1076	18.7
Males (Adult)	60	30	3	58	72.8	1076	21.7
Children	120	60	3	58	75.8	1076	24.7
Total	239	120	-	-	78.2	-	27.1

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Sculpture Garden (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	959		
@ 993 feet	240	120	27.8
@ 993 feet	240	120	27.8
@ 1086 feet	240	120	27.0
@ 1076 feet	239	120	27.1
Amplified Speakers	-	-	59.0
Total w/ Shielding	959	480	49.0
Reduction provided by shielding			-10

670 Mesquit
Open Space Noise Calculation - Work/Breakout Deck

Work/Breakout Deck (NW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	873	23.5
Males (Adult)	119	60	3	58	75.8	873	26.5
Total	238	120	-	-	77.5	-	28.3

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (NE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	868	23.6
Males (Adult)	119	60	3	58	75.8	868	26.6
Total	238	120	-	-	77.5	-	28.3

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (SW Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	950	22.8
Males (Adult)	119	60	3	58	75.8	950	25.8
Total	238	120	-	-	77.5	-	27.5

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (SE Quadrant)							
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Reference Distance (ft) ¹	Reference Noise Level (dBA) ¹	Combined Noise Level (dBA)	Distance to Receptor (ft)	Noise Level at Receptor (dBA)
Total Capacity	238						
Females (Adult)	119	60	3	55	72.8	945	22.8
Males (Adult)	119	60	3	58	75.8	945	25.8
Total	238	120	-	-	77.5	-	27.6

Source:
¹ American Journal of Audiology Vol. 7, p. 3 (1998)

Work/Breakout Deck (Total)			
Category	# of Individuals (estimated capacity)	# of Individuals Speaking (half of estimated capacity)	Noise Level at Receptor (dBA)
Total Capacity	952		
@ 873 feet	238	120	28.3
@ 868 feet	238	120	28.3
@ 950 feet	238	120	27.5
@ 945 feet	238	120	27.6
Total w/ Shielding	952	480	24.0
Reduction provided by shielding			-10

ESTIMATE OF MECHANICAL EQUIPMENT NOISE LEVELS (L_{EQ})

Receptor Location	Distance (feet)	Existing Ambient Noise Levels, dBA (L _{eq}) ^b	Estimated Mechanical Equipment Noise Levels, dBA (L _{eq})	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
R1	361	67.5	34.7	67.5	72.5	No
R2	158	70.2	36.9	70.2	75.2	No
R3	422	63.3	33.4	63.3	68.3	No
R4	412	47.1	23.6	47.1	52.1	No

^a Equipment would be located on building rooftops. Therefore, distances account for building height.

^b The lowest measured ambient nighttime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project mechanical equipment could operate during nighttime hours.

SOURCE: ESA, 2021.

Project: 670 Mesquit

Mechanical Equipment Noise Calculations

Receptor Location	R1		
Mechanical Equipment Noise Levels	81.9	dB	A
Reference Distance	5	ft	
Distance to R1	361	ft	
	-37	dB	A
	44.7	dB	A
Noise Reduction by NOISE-PDF-2	10	dB	A
Noise Reduction by Existing Buildings	0	dB	A
Noise Levels at R1	34.7	dB	A

Receptor Location	R2		
Mechanical Equipment Noise Levels	81.9	dB	A
Reference Distance	5	ft	
Distance to R2	158	ft	
	-30	dB	A
	51.9	dB	A
Noise Reduction by NOISE-PDF-2	10	dB	A
Noise Reduction by Existing Buildings	5	dB	A
Noise Levels at R2	36.9	dB	A

Receptor Location	R3		
Mechanical Equipment Noise Levels	81.9	dB	A
Reference Distance	5	ft	
Distance to R3	422	ft	
	-39	dB	A
	43.4	dB	A
Noise Reduction by NOISE-PDF-2	10	dB	A
Noise Reduction by Existing Buildings	0	dB	A
Noise Levels at R3	33.4	dB	A

Receptor Location	R4		
Mechanical Equipment Noise Levels	81.9	dB	A
Reference Distance	5	ft	
Distance to R4	412	ft	
	-38	dB	A
	43.6	dB	A
Noise Reduction by NOISE-PDF-2	10	dB	A
Noise Reduction by Existing Buildings	10	dB	A
Noise Levels at R4	23.6	dB	A

* Exterior reference noise levels for air condenser units, fans, and related equipment, the primary sources of noise from fixed mechanical equipment, would be 81.9 dBA Leq measured at a distance of 5 feet (based on noise data from large shopping center projects in Southern California). Refer to: City of Moreno Valley, Moreno Valley Walmart Noise Impact Analysis, Table 9-1, Page 71, February 10, 2015; and City of Pomona, Pomona Ranch Plaza Walmart Expansion Project, Table 4.4-5, Pg. 4.4-33, August 2014.

** Distance to receptors assumes that mechanical equipment would be located on the rooftop of the nearest Project Building. Distance of the receptor to the nearest Building rooftop calculated using the Pythagorean theorem ($a^2 + b^2 = c^2$)

ESTIMATE OF PARKING STRUCTURE NOISE LEVELS (L_{EQ})

Receptor Location	Distance (feet)	Existing Ambient Noise Levels, dBA (L _{eq}) ^a	Estimated Parking Structure Noise Levels, dBA (L _{eq})	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
R1	32	67.5	62.6	68.7	72.5	No
R2	160	70.2	49.0	70.2	75.2	No
R3	200	63.3	46.6	63.4	68.3	No
R4	1,200	47.1	31.1	47.2	52.1	No

^a The lowest measured ambient nighttime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project uses would operate during nighttime hours resulting in nighttime parking structure activity.

SOURCE: ESA, 2021.

Project: 670 Mesquit

Parking Structure Noise

Receptor Location	R1		
Parking Structure Noise Level	58.7		dBA
Reference Distance	50		ft
Distance to R1	32		ft
	4		dBA
	62.6		dBA
Noise Reduction by NOISE-PDF-2			dBA
Noise Reduction by Existing Buildings	0		dBA
Noise Levels at R1	63		dBA

Receptor Location	R2		
Parking Structure Noise Level	58.7		dBA
Reference Distance	50		ft
Distance to R2	160		ft
	-10		dBA
	48.6		dBA
Noise Reduction by NOISE-PDF-2			dBA
Noise Reduction by Existing Buildings			dBA
Noise Levels at R2	49		dBA

Receptor Location	R3		
Parking Structure Noise Level	58.7		dBA
Reference Distance	50		ft
Distance to R3	200		ft
	-12		dBA
	46.6		dBA
Noise Reduction by NOISE-PDF-2			dBA
Noise Reduction by Existing Buildings	0		dBA
Noise Levels at R3	46.6		dBA

Receptor Location	R4		
Parking Structure Noise Level	58.7		dBA
Reference Distance	50		ft
Distance to R4	1200		ft
	-28		dBA
	31.1		dBA
Noise Reduction by NOISE-PDF-2			dBA
Noise Reduction by Existing Buildings			dBA
Noise Levels at R4	31.1		dBA

AM or PM Peak Hour Trips	1688	trips
Leq	58.7	dBA

$$Leq(h) = SEL_{ref} + 10\log(NA/1000) - 35.6$$

Where: Leq(h) = hourly Leq noise level at 50 feet

SEL_{ref} (92 dBA SEL) = reference noise level for stationary noise source represented in

NA = number of automobiles per hour

ESTIMATE OF PARKING STRUCTURE NOISE LEVELS (L_{EQ}) – PROJECT WITH DECK CONCEPT

Receptor Location	Distance (feet) ^a	Existing Ambient Noise Levels, dBA (L _{eq}) ^b	Estimated Parking Structure Noise Levels, dBA (L _{eq})	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
R1	32	67.5	63.0	68.8	72.5	No
R2	160	70.2	49.0	70.2	75.2	No
R3	200	63.3	47.0	63.4	68.3	No
R4	1,200	47.1	31.4	47.8	52.7	No

^a Distance measured from each receptor to the nearest parking garage façade.

^b The lowest measured ambient nighttime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project uses would operate during nighttime hours resulting in nighttime parking structure activity.

SOURCE: ESA, 2021.

Project: 670 Mesquit

Parking Structure Noise - Deck

Receptor Location	R1	
Parking Structure Noise Level	59.0	dBA
Reference Distance	50	ft
Distance to R1	32	ft
	4	dBA
	62.9	dBA
Noise Reduction by NOISE-PDF-2		dBA
Noise Reduction by Existing Buildings	0	dBA
Noise Levels at R1	63	dBA

Receptor Location	R2	
Parking Structure Noise Level	59.0	dBA
Reference Distance	50	ft
Distance to R2	160	ft
	-10	dBA
	48.9	dBA
Noise Reduction by NOISE-PDF-2		dBA
Noise Reduction by Existing Buildings		dBA
Noise Levels at R2	49	dBA

Receptor Location	R3	
Parking Structure Noise Level	59.0	dBA
Reference Distance	50	ft
Distance to R3	200	ft
	-12	dBA
	47.0	dBA
Noise Reduction by NOISE-PDF-2		dBA
Noise Reduction by Existing Buildings	0	dBA
Noise Levels at R3	47.0	dBA

Receptor Location	R4	
Parking Structure Noise Level	59.0	dBA
Reference Distance	50	ft
Distance to R4	1200	ft
	-28	dBA
	31.4	dBA
Noise Reduction by NOISE-PDF-2		dBA
Noise Reduction by Existing Buildings		dBA
Noise Levels at R4	31.4	dBA

AM or PM Peak Hour Trips
Leq

1805	trips
59	dBA

$$Leq(h) = SEL_{ref} + 10\log(NA/1000) - 35.6$$

Where: Leq(h) = hourly Leq noise level at 50 feet

SEL_{ref} (92 dBA SEL) = reference noise level for stationary noise source represented in

NA = number of automobiles per hour

ESTIMATE OF LOADING DOCK AND TRASH COLLECTION AREA NOISE LEVELS (L_{EQ})

Receptor Location	Distance (feet) ^a	Existing Ambient Noise Levels, dBA (L _{eq}) ^b	Estimated Loading Dock and Trash Collection Area Noise Levels, dBA (L _{eq})	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
R1	150	67.5	46.0	67.5	72.5	No
R2	150	70.2	46.0	70.2	75.2	No
R3	330	63.3	39.1	63.3	68.3	No
R4	280	47.1	45.5	49.5	52.1	No

^a The distance is measured from the nearest potential loading dock area.

^b The lowest measured ambient nighttime noise level was used to calculate the significance threshold (ambient plus 5 dBA) because project mechanical equipment could operate during nighttime hours.

SOURCE: ESA, 2021.

Project: 670 Mesquit

Loading Dock and Trash Collection Area Noise Calculations

Receptor Location	R1	
Loading Dock and Trash Collection		
Area Noise Levels	70.5	dBA
Reference Distance	50	ft
Distance to R1	150	ft
	-10	dBA
	61.0	dBA
Noise Reduction by Project buildings	15	dBA
Noise Reduction by Existing Buildings	0	dBA
Noise Levels at R1	46.0	dBA

Receptor Location	R2	
Loading Dock and Trash Collection		
Area Noise Levels	70.5	dBA
Reference Distance	50	ft
Distance to R2	150	ft
	-10	dBA
	61.0	dBA
Noise Reduction by Project buildings	15	dBA
Noise Reduction by Existing Buildings	0	dBA
Noise Levels at R2	46.0	dBA

Receptor Location	R3	
Loading Dock and Trash Collection		
Area Noise Levels	70.5	dBA
Reference Distance	50	ft
Distance to R3	330	ft
	-16	dBA
	54.1	dBA
Noise Reduction by Project buildings	15	dBA
Noise Reduction by Existing Buildings	0	dBA
Noise Levels at R3	39.1	dBA

Receptor Location	R4	
Loading Dock and Trash Collection		
Area Noise Levels	70.5	dBA
Reference Distance	50	ft
Distance to R4	280	ft
	-15	dBA
	55.5	dBA
Noise Reduction by Project buildings	0	dBA
Noise Reduction by Existing Buildings	10	dBA
Noise Levels at R4	45.5	dBA

* Reference noise level of 70.5 dBA Leq is combine noise levels of loading dock activity (namely idling semi-trucks and backup alarm beeps) noise levels of approximately 70 dBA Leq and trash compactors noise levels of approximately 66 dBA Leq.

ESTIMATE OF EMERGENCY GENERATOR NOISE LEVELS (L_{EQ})

Receptor Location	Distance (feet)	Existing Ambient Noise Levels, dBA (L _{eq})	Estimated Emergency Generator Noise Levels, dBA (L _{eq})	Ambient + Project Noise Levels, dBA (L _{eq})	Significance Threshold, dBA (L _{eq})	Exceed Significance Threshold
R1	10	70.7	71.2	74.0	75.7	No
R2	150	76.3	47.7	76.3	81.3	No
R3	200	76.6	45.2	76.6	81.6	No
R4	650	66.6	35.0	66.6	71.6	No

SOURCE: ESA, 2021.

Project: 670 Mesquit

Generator Noise Calculations

Receptor Location	R1	
Generator Noise Levels	79.0	dBA
Reference Distance	23	ft
Distance to R1	10	ft
	7	dBA
	86.2	dBA
Noise Reduction by Existing Buildings	15	dBA
Noise Levels at R1	71.2	dBA

Receptor Location	R2	
Generator Noise Levels	79.0	dBA
Reference Distance	23	ft
Distance to R2	150	ft
	-16	dBA
	62.7	dBA
Noise Reduction by Existing Buildings	15	dBA
Noise Levels at R2	47.7	dBA

Receptor Location	R3	
Generator Noise Levels	79.0	dBA
Reference Distance	23	ft
Distance to R3	200	ft
	-19	dBA
	60.2	dBA
Noise Reduction by Existing Buildings	15	dBA
Noise Levels at R3	45.2	dBA

Receptor Location	R4	
Generator Noise Levels	79.0	dBA
Reference Distance	23	ft
Distance to R4	650	ft
	-29	dBA
	50.0	dBA
Noise Reduction by Existing Buildings	15	dBA
Noise Levels at R4	35.0	dBA

http://resources.kohler.com/power/kohler/industrial/pdf/KD800-2500_G6154.pdf

OFF-SITE TRAFFIC NOISE IMPACTS – EXISTING PLUS PROJECT CONDITIONS

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Existing (A)	Existing with Project (B)	Project Increment (B-A)	
4th Street					
Between S. Alameda Street and Molino Street	Commercial	69.1	69.2	0.1	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	68.4	68.7	0.3	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.1	68.7	0.6	No
Between Mateo Street and Santa Fe Avenue	Commercial	66.6	67.2	0.6	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	68.1	68.6	0.5	No
Between S. Alameda Street and Mateo Street	Commercial	67.9	68.8	0.9	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	69.0	69.4	0.4	No
Between S. Central Avenue and S. Alameda Street	Commercial/Residential	68.3	68.6	0.3	No
Between Rio Street and Anderson Street	Commercial	68.4	68.9	0.5	No
Between Santa Fe Avenue and S. Rio Street	Commercial	68.6	69.0	0.4	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	66.7	67.2	0.5	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	65.4	65.5	0.1	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	58.6	62.9	4.3	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.6	4.4	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial/Residential	62.6	63.7	1.1	No
Between E. 4 th Place and Willow Street	Commercial/Residential	62.1	62.8	0.7	No
Between Jesse Street and 7 th Street	Commercial	63.7	64.7	1.0	No
Between Willow Street and 6 th Street	Commercial	62.6	63.2	0.6	No
N. Alameda Street					
Between Aliso Street and Temple Street	Commercial	70.8	71.0	0.2	No

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Existing (A)	Existing with Project (B)	Project Increment (B-A)	
Between Temple Street and East 1 st Street	Residential/Commercial	70.8	71.0	0.2	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	69.6	69.9	0.3	No
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	65.9	66.1	0.2	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	69.9	70.3	0.4	No
Between 4 th Street and 6 th Street	Industrial	70.3	70.6	0.3	No
Between 6 th Street and 7 th Street	Industrial	70.5	70.7	0.2	No
Between E. 2 nd Street and 3 rd Street	Residential	70.2	70.5	0.3	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	67.2	67.7	0.5	No
Between 8 th Street and Porter Street	Commercial	67.6	68.1	0.5	No
Between Jesse Street and 7 th Street	Commercial/Residential	66.2	66.7	0.5	No
Between Mesquit Street and Jesse Street	Commercial	66.8	67.0	0.2	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.1	70.2	0.1	No
Between Porter and Olympic Boulevard	Commercial	69.0	69.3	0.3	No
Between Willow Street and Mesquit Street	Commercial	63.4	64.4	1.0	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	55.2	56.8	1.6	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.3	3.5	No

Note: Existing and Existing with Project traffic noise levels are based on intersection turning movement volumes included in Appendix E of the Transportation Assessment for the Project (see Appendix M-1 of this Draft EIR).

SOURCE: ESA, 2021.

OFF-SITE TRAFFIC NOISE IMPACTS – FUTURE (2026) PLUS PROJECT CONDITIONS

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Future (A)	Future with Project (B)	Project Increment (B-A)	
4th Street					
Between S. Alameda Street and Molino Street	Commercial	70.0	70.1	0.1	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	69.7	69.9	0.2	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.8	69.2	0.4	No
Between Mateo Street and Santa Fe Avenue	Commercial	67.7	68.2	0.5	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	70.2	70.5	0.3	No
Between S. Alameda Street and Mateo Street	Commercial	70.3	70.8	0.5	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	70.7	71.0	0.3	No
Between S. Central Avenue and S. Alameda Street	Commercial/Residential	70.4	70.6	0.2	No
Between Rio Street and Anderson Street	Commercial	70.3	70.6	0.3	No
Between Santa Fe Avenue and S. Rio Street	Commercial	70.4	70.7	0.3	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	68.3	68.7	0.4	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	66.5	66.6	0.1	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	59.6	63.2	3.6	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.6	4.4	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial/Residential	65.3	65.9	0.6	No
Between E. 4 th Place and Willow Street	Commercial/Residential	66.2	66.5	0.3	No
Between Jesse Street and 7 th Street	Commercial	65.6	66.3	0.7	No
Between Willow Street and 6 th Street	Commercial	66.7	66.9	0.2	No
N. Alameda Street					
Between Aliso Street and Temple Street	Commercial	72.4	72.6	0.2	No

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Future (A)	Future with Project (B)	Project Increment (B-A)	Exceed Threshold?
Between Temple Street and East 1 st Street	Residential/Commercial	72.8	72.9	0.1	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	72.8	72.9	0.1	No
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	67.0	67.2	0.2	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	72.3	72.5	0.2	No
Between 4 th Street and 6 th Street	Industrial	72.4	72.6	0.2	No
Between 6 th Street and 7 th Street	Industrial	72.5	72.6	0.1	No
Between E. 2 nd Street and 3 rd Street	Residential	72.3	72.5	0.2	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	69.7	70.0	0.3	No
Between 8 th Street and Porter Street	Commercial	69.1	69.5	0.4	No
Between Jesse Street and 7 th Street	Commercial/Residential	67.8	68.1	0.3	No
Between Mesquit Street and Jesse Street	Commercial	68.5	68.7	0.2	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.4	70.6	0.2	No
Between Porter and Olympic Boulevard	Commercial	70.2	70.4	0.2	No
Between Willow Street and Mesquit Street	Commercial	65.1	66.1	1.0	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	56.8	57.9	1.1	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.3	3.5	No

Note: Future and Future with Project traffic noise levels are based on intersection turning movement volumes included in Appendix E of the Transportation Assessment for the Project (see Appendix M-1 of this Draft EIR).

SOURCE: ESA, 2021.

OFF-SITE TRAFFIC NOISE IMPACTS – FUTURE (2040) PLUS PROJECT CONDITIONS

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Future (A)	Future with Project (B)	Project Increment (B-A)	Exceed Threshold?
4th Street					
Between S. Alameda Street and Molino Street	Commercial	70.1	70.2	0.1	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	69.8	70.0	0.2	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.9	69.3	0.4	No
Between Mateo Street and Santa Fe Avenue	Commercial	67.8	68.3	0.5	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	70.2	70.5	0.3	No
Between S. Alameda Street and Mateo Street	Commercial	70.4	70.9	0.5	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	70.8	71.1	0.3	No
Between S. Central Avenue and S. Alameda Street	Commercial/Residential	70.5	70.7	0.2	No
Between Rio Street and Anderson Street	Commercial	70.4	70.7	0.3	No
Between Santa Fe Avenue and S. Rio Street	Commercial	70.5	70.8	0.3	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	68.4	68.7	0.3	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	66.6	66.7	0.1	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	59.6	63.3	3.7	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.6	4.4	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial/Residential	65.3	65.9	0.6	No
Between E. 4 th Place and Willow Street	Commercial/Residential	66.2	66.6	0.4	No
Between Jesse Street and 7 th Street	Commercial	65.7	66.4	0.7	No
Between Willow Street and 6 th Street	Commercial	66.7	67.0	0.3	No
N. Alameda Street					
Between Aliso Street and Temple Street	Commercial	72.5	72.6	0.1	No

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Future (A)	Future with Project (B)	Project Increment (B-A)	Exceed Threshold?
Between Temple Street and East 1 st Street	Residential/Commercial	72.9	73.0	0.1	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	72.8	73.0	0.2	No
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	67.1	67.2	0.1	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	72.4	72.6	0.2	No
Between 4 th Street and 6 th Street	Industrial	72.5	72.7	0.2	No
Between 6 th Street and 7 th Street	Industrial	72.6	72.7	0.1	No
Between E. 2 nd Street and 3 rd Street	Residential	72.3	72.5	0.2	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	69.8	70.1	0.3	No
Between 8 th Street and Porter Street	Commercial	69.2	69.6	0.4	No
Between Jesse Street and 7 th Street	Commercial/Residential	67.8	70.1	0.4	No
Between Mesquit Street and Jesse Street	Commercial	68.5	68.8	0.3	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.5	70.7	0.2	No
Between Porter and Olympic Boulevard	Commercial	70.3	70.5	0.2	No
Between Willow Street and Mesquit Street	Commercial	65.2	66.1	0.9	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	56.8	57.9	1.1	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.3	3.5	No

Note: Future and Future with Project traffic noise levels are based on intersection turning movement volumes included in Appendix E of the Transportation Assessment for the Project (see Appendix M-1 of this Draft EIR).

SOURCE: ESA, 2021.

**OFF-SITE TRAFFIC NOISE IMPACTS – EXISTING PLUS PROJECT WITH THE DECK CONCEPT
CONDITIONS**

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Existing (A)	Existing with Project (B)	Project Increment (B-A)	
4th Street					
Between S. Alameda Street and Molino Street	Commercial	69.1	69.2	0.1	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	68.4	68.7	0.3	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.1	68.7	0.6	No
Between Mateo Street and Santa Fe Avenue	Commercial	66.6	67.2	0.6	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	68.1	68.7	0.6	No
Between S. Alameda Street and Mateo Street	Commercial	67.9	68.8	0.9	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	69.0	69.5	0.5	No
Between S. Central Avenue and S. Alameda Street	Commercial	68.3	68.6	0.3	No
Between Rio Street and Anderson Street	Commercial	68.4	68.9	0.5	No
Between Santa Fe Avenue and S. Rio Street	Commercial	68.6	69.0	0.4	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	66.7	67.2	0.5	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	65.4	65.5	0.1	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	58.6	63.1	4.5	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.8	4.6	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial	62.6	63.8	1.2	No
Between E. 4 th Place and Willow Street	Commercial	62.1	62.8	0.7	No
Between Jesse Street and 7 th Street	Commercial	63.7	64.8	1.1	No
Between Willow Street and 6 th Street	Commercial	62.6	63.2	0.6	No
N. Alameda Street					
Between Aliso Street and Temple Street	Commercial	70.8	71.0	0.2	No

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Existing (A)	Existing with Project (B)	Project Increment (B-A)	
Between Temple Street and East 1 st Street	Residential/Commercial	70.8	71.0	0.2	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	69.6	69.9	0.3	No
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	65.9	66.1	0.2	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	69.9	70.3	0.4	No
Between 4 th Street and 6 th Street	Industrial	70.3	70.7	0.4	No
Between 6 th Street and 7 th Street	Industrial	70.5	70.7	0.2	No
Between E. 2 nd Street and 3 rd Street		70.2	70.5	0.3	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	67.2	67.7	0.5	No
Between 8 th Street and Porter Street	Commercial	67.6	68.1	0.5	No
Between Jesse Street and 7 th Street	Commercial	66.2	66.7	0.5	No
Between Mesquit Street and Jesse Street	Commercial	66.8	67.1	0.3	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.1	70.2	0.1	No
Between Porter and Olympic Boulevard	Commercial	69.0	69.3	0.3	No
Between Willow Street and Mesquit Street	Commercial	63.4	64.6	1.2	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	55.2	56.9	1.7	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.6	3.8	No

SOURCE: ESA, 2021.

**OFF-SITE TRAFFIC NOISE IMPACTS – FUTURE (2026) PLUS PROJECT WITH THE DECK
CONCEPT CONDITIONS**

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Future (A)	Future with Project (B)	Project Increment (B-A)	
4th Street					
Between S. Alameda Street and Molino Street	Commercial	70.0	70.1	0.1	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	69.7	69.9	0.2	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.8	69.3	0.5	No
Between Mateo Street and Santa Fe Avenue	Commercial	67.7	68.3	0.5	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	70.2	70.5	0.3	No
Between S. Alameda Street and Mateo Street	Commercial	70.3	70.8	0.5	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	70.7	71.0	0.3	No
Between S. Central Avenue and S. Alameda Street	Commercial	70.4	70.6	0.2	No
Between Rio Street and Anderson Street	Commercial	70.3	70.6	0.3	No
Between Santa Fe Avenue and S. Rio Street	Commercial	70.4	70.7	0.3	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	68.3	68.6	0.3	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	66.5	66.6	0.1	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	59.6	63.3	3.7	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.7	4.5	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial	65.3	65.9	0.6	No
Between E. 4 th Place and Willow Street	Commercial	66.2	66.5	0.3	No
Between Jesse Street and 7 th Street	Commercial	65.6	66.3	0.7	No
Between Willow Street and 6 th Street	Commercial	66.7	66.9	0.2	No
N. Alameda Street					
Between Aliso Street and Temple Street	Commercial	72.4	72.5	0.1	No

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Future (A)	Future with Project (B)	Project Increment (B-A)	
Between Temple Street and East 1 st Street	Residential/Commercial	72.8	72.9	0.1	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	72.8	72.9	0.1	No
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	67.0	67.1	0.1	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	72.3	72.5	0.2	No
Between 4 th Street and 6 th Street	Industrial	72.4	72.6	0.2	No
Between 6 th Street and 7 th Street	Industrial	72.5	72.6	0.1	No
Between E. 2 nd Street and 3 rd Street		72.3	72.5	0.2	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	69.7	70.0	0.3	No
Between 8 th Street and Porter Street	Commercial	69.1	69.5	0.4	No
Between Jesse Street and 7 th Street	Commercial	67.8	68.1	0.3	No
Between Mesquit Street and Jesse Street	Commercial	68.5	68.7	0.2	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.4	70.6	0.2	No
Between Porter and Olympic Boulevard	Commercial	70.2	70.4	0.2	No
Between Willow Street and Mesquit Street	Commercial	65.1	66.1	1.0	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	56.8	57.9	1.1	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.4	3.6	No

SOURCE: ESA, 2021.

**OFF-SITE TRAFFIC NOISE IMPACTS – FUTURE (2040) PLUS PROJECT WITH THE DECK
CONCEPT CONDITIONS**

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Future (A)	Future with Project (B)	Project Increment (B-A)	
4th Street					
Between S. Alameda Street and Molino Street	Commercial	70.1	70.2	0.1	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	69.8	70.0	0.2	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.9	69.4	0.5	No
Between Mateo Street and Santa Fe Avenue	Commercial	67.8	68.3	0.5	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	70.2	70.6	0.4	No
Between S. Alameda Street and Mateo Street	Commercial	70.4	70.9	0.5	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	70.8	71.1	0.3	No
Between S. Central Avenue and S. Alameda Street	Commercial	70.5	70.7	0.2	No
Between Rio Street and Anderson Street	Commercial	70.4	70.7	0.3	No
Between Santa Fe Avenue and S. Rio Street	Commercial	70.5	70.8	0.3	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	68.4	68.8	0.4	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	66.6	66.7	0.1	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	59.6	63.5	3.9	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.8	4.6	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial	65.3	66.0	0.7	No
Between E. 4 th Place and Willow Street	Commercial	66.2	66.6	0.4	No
Between Jesse Street and 7 th Street	Commercial	65.7	66.4	0.7	No
Between Willow Street and 6 th Street	Commercial	66.7	67.0	0.3	No
N. Alameda Street					
Between Aliso Street and Temple Street	Commercial	72.5	72.6	0.1	No

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Future (A)	Future with Project (B)	Project Increment (B-A)	
Between Temple Street and East 1 st Street	Residential/Commercial	72.9	73.0	0.1	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	72.8	73.0	0.2	No
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	67.1	67.2	0.1	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	72.4	72.6	0.2	No
Between 4 th Street and 6 th Street	Industrial	72.5	72.7	0.2	No
Between 6 th Street and 7 th Street	Industrial	72.6	72.7	0.1	No
Between E. 2 nd Street and 3 rd Street		72.3	72.5	0.2	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	69.8	70.1	0.3	No
Between 8 th Street and Porter Street	Commercial	69.2	69.6	0.4	No
Between Jesse Street and 7 th Street	Commercial	67.8	68.2	0.4	No
Between Mesquit Street and Jesse Street	Commercial	68.5	68.8	0.3	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.5	70.7	0.2	No
Between Porter and Olympic Boulevard	Commercial	70.3	70.5	0.2	No
Between Willow Street and Mesquit Street	Commercial	65.2	66.2	1.0	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	56.8	58.0	1.2	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.6	3.8	No

SOURCE: ESA, 2021.

OFF-SITE TRAFFIC NOISE IMPACTS – EXISTING PROJECT CUMULATIVE INCREMENT

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			Exceed Threshold?
		Existing (A)	Existing Plus Project Plus Related Projects (B)	Project Plus Related Projects Increment (B-A)	
4th Street					
Between S. Alameda Street and Molino Street	Commercial	69.1	70.1	1.0	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	68.4	69.9	1.5	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.1	69.2	1.1	No
Between Mateo Street and Santa Fe Avenue	Commercial	66.6	68.1	1.5	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	68.1	70.4	2.3	No
Between S. Alameda Street and Mateo Street	Commercial	67.9	70.8	2.8	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	69.0	70.9	1.9	No
Between S. Central Avenue and S. Alameda Street	Commercial/Residential	68.3	70.6	2.3	No
Between Rio Street and Anderson Street	Commercial	68.4	70.5	2.1	No
Between Santa Fe Avenue and S. Rio Street	Commercial	68.6	70.6	2.0	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	66.7	68.6	1.9	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	65.4	66.5	1.1	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	58.6	63.2	4.6	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.6	4.4	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial/Residential	62.6	65.9	3.3	No
Between E. 4 th Place and Willow Street	Commercial/Residential	62.1	66.5	4.4	No
Between Jesse Street and 7 th Street	Commercial	63.7	66.3	2.6	No
Between Willow Street and 6 th Street	Commercial	62.6	66.9	4.3	No
N. Alameda Street					

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Existing (A)	Existing Plus Project Plus Related Projects (B)	Project Plus Related Projects Increment (B-A)	Exceed Threshold?
Between Aliso Street and Temple Street	Commercial	70.8	72.5	1.7	No
Between Temple Street and East 1 st Street	Residential/Commercial	70.8	72.9	2.1	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	69.6	72.9	3.3	Yes
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	65.9	67.1	1.2	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	69.9	72.5	2.6	No
Between 4 th Street and 6 th Street	Industrial	70.3	72.6	2.3	No
Between 6 th Street and 7 th Street	Industrial	70.5	72.6	2.1	No
Between E. 2 nd Street and 3 rd Street	Residential	70.2	72.4	2.2	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	67.2	70.0	2.8	No
Between 8 th Street and Porter Street	Commercial	67.6	69.5	1.9	No
Between Jesse Street and 7 th Street	Commercial/Residential	66.2	68.1	1.9	No
Between Mesquit Street and Jesse Street	Commercial	66.8	68.7	1.9	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.1	70.5	0.4	No
Between Porter and Olympic Boulevard	Commercial	69.0	70.4	1.4	No
Between Willow Street and Mesquit Street	Commercial	63.4	66.0	2.6	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	55.2	57.8	2.6	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.3	3.5	No

SOURCE: ESA, 2021.

OFF-SITE TRAFFIC NOISE IMPACTS – FUTURE (2026) PROJECT CUMULATIVE INCREMENT

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Existing (A)	Future Plus Project (B)	Cumulative Increment (B-A)	Exceed Threshold?
4th Street					
Between S. Alameda Street and Molino Street	Commercial	69.1	70.1	1.0	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	68.4	69.9	1.5	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.1	69.2	1.1	No
Between Mateo Street and Santa Fe Avenue	Commercial	66.6	68.2	1.6	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	68.1	70.5	2.4	No
Between S. Alameda Street and Mateo Street	Commercial	67.9	70.8	2.9	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	69.0	71.0	2.0	No
Between S. Central Avenue and S. Alameda Street	Commercial/Residential	68.3	70.6	2.3	No
Between Rio Street and Anderson Street	Commercial	68.4	70.6	2.2	No
Between Santa Fe Avenue and S. Rio Street	Commercial	68.6	70.7	2.1	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	66.7	68.7	2.0	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	65.4	66.6	1.2	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	58.6	63.2	4.6	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.6	4.4	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial/Residential	62.6	65.9	3.3	No
Between E. 4 th Place and Willow Street	Commercial/Residential	62.1	66.5	4.4	No
Between Jesse Street and 7 th Street	Commercial	63.7	66.3	2.6	No
Between Willow Street and 6 th Street	Commercial	62.6	66.9	4.3	No
N. Alameda Street					
Between Aliso Street and Temple Street	Commercial	70.8	72.6	1.8	No

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Existing (A)	Future Plus Project (B)	Cumulative Increment (B-A)	Exceed Threshold?
Between Temple Street and East 1 st Street	Residential/Commercial	70.8	72.9	2.1	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	69.6	72.9	3.3	Yes
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	65.9	67.2	1.3	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	69.9	72.5	2.6	No
Between 4 th Street and 6 th Street	Industrial	70.3	72.6	2.3	No
Between 6 th Street and 7 th Street	Industrial	70.5	72.6	2.1	No
Between E. 2 nd Street and 3 rd Street	Residential	70.2	72.5	2.3	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	67.2	70.0	2.8	No
Between 8 th Street and Porter Street	Commercial	67.6	69.5	1.9	No
Between Jesse Street and 7 th Street	Commercial/Residential	66.2	68.1	1.9	No
Between Mesquit Street and Jesse Street	Commercial	66.8	68.7	1.9	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.1	70.6	0.5	No
Between Porter and Olympic Boulevard	Commercial	69.0	70.4	1.4	No
Between Willow Street and Mesquit Street	Commercial	63.4	66.1	2.7	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	55.2	57.9	2.7	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.3	3.5	No

SOURCE: ESA, 2021.

OFF-SITE TRAFFIC NOISE IMPACTS – FUTURE (2040) PROJECT CUMULATIVE INCREMENT

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Existing (A)	Future Plus Project (B)	Cumulative Increment (B-A)	Exceed Threshold?
4th Street					
Between S. Alameda Street and Molino Street	Commercial	69.1	70.2	1.1	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	68.4	70.0	1.6	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.1	69.3	1.2	No
Between Mateo Street and Santa Fe Avenue	Commercial	66.6	68.3	1.7	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	68.1	70.5	2.4	No
Between S. Alameda Street and Mateo Street	Commercial	67.9	70.9	3.0	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	69.0	71.1	2.1	No
Between S. Central Avenue and S. Alameda Street	Commercial/Residential	68.3	70.7	2.4	No
Between Rio Street and Anderson Street	Commercial	68.4	70.7	2.3	No
Between Santa Fe Avenue and S. Rio Street	Commercial	68.6	70.8	2.2	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	66.7	68.7	2.0	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	65.4	66.7	1.3	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	58.6	63.3	4.7	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.6	4.4	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial/Residential	62.6	65.9	3.3	No
Between E. 4 th Place and Willow Street	Commercial/Residential	62.1	66.6	4.5	No
Between Jesse Street and 7 th Street	Commercial	63.7	66.4	2.7	No
Between Willow Street and 6 th Street	Commercial	62.6	67.0	4.4	No
N. Alameda Street					
Between Aliso Street and Temple Street	Commercial	70.8	72.6	1.8	No

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Existing (A)	Future Plus Project (B)	Cumulative Increment (B-A)	Exceed Threshold?
Between Temple Street and East 1 st Street	Residential/Commercial	70.8	73.0	2.2	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	69.6	73.0	3.4	Yes
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	65.9	67.2	1.3	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	69.9	72.6	2.7	No
Between 4 th Street and 6 th Street	Industrial	70.3	72.7	2.4	No
Between 6 th Street and 7 th Street	Industrial	70.5	72.7	2.2	No
Between E. 2 nd Street and 3 rd Street	Residential	70.2	72.5	2.3	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	67.2	70.1	2.9	No
Between 8 th Street and Porter Street	Commercial	67.6	69.6	2.0	No
Between Jesse Street and 7 th Street	Commercial/Residential	66.2	68.2	2.0	No
Between Mesquit Street and Jesse Street	Commercial	66.8	68.8	2.0	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.1	70.7	0.6	No
Between Porter and Olympic Boulevard	Commercial	69.0	70.5	1.5	No
Between Willow Street and Mesquit Street	Commercial	63.4	66.1	2.7	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	55.2	57.9	2.7	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.3	3.5	No

SOURCE: ESA, 2021.

OFF-SITE TRAFFIC NOISE IMPACTS – EXISTING PROJECT WITH DECK CONCEPT CUMULATIVE INCREMENT

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Existing (A)	Existing Plus Project Plus Related Projects (B)	Project Plus Related Projects Increment (B-A)	Exceed Threshold?
4th Street					
Between S. Alameda Street and Molino Street	Commercial	69.1	70.1	1.0	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	68.4	69.9	1.5	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.1	69.2	1.1	No
Between Mateo Street and Santa Fe Avenue	Commercial	66.6	68.2	1.6	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	68.1	70.5	2.4	No
Between S. Alameda Street and Mateo Street	Commercial	67.9	70.8	2.9	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	69.0	70.9	1.9	No
Between S. Central Avenue and S. Alameda Street	Commercial	68.3	70.6	2.3	No
Between Rio Street and Anderson Street	Commercial	68.4	70.5	2.1	No
Between Santa Fe Avenue and S. Rio Street	Commercial	68.6	70.7	2.1	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	66.7	68.6	1.9	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	65.4	66.5	1.1	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	58.6	63.4	4.8	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.8	4.6	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial	62.6	65.9	3.3	No
Between E. 4 th Place and Willow Street	Commercial	62.1	66.5	4.4	No
Between Jesse Street and 7 th Street	Commercial	63.7	66.3	2.6	No
Between Willow Street and 6 th Street	Commercial	62.6	66.9	4.3	No
N. Alameda Street					

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Existing (A)	Existing Plus Project Plus Related Projects (B)	Project Plus Related Projects Increment (B-A)	Exceed Threshold?
Between Aliso Street and Temple Street	Commercial	70.8	72.5	1.7	No
Between Temple Street and East 1 st Street	Residential/Commercial	70.8	72.9	2.1	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	69.6	72.9	3.3	Yes
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	65.9	67.1	1.2	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	69.9	72.5	2.6	No
Between 4 th Street and 6 th Street	Industrial	70.3	72.6	2.3	No
Between 6 th Street and 7 th Street	Industrial	70.5	72.6	2.1	No
Between E. 2 nd Street and 3 rd Street		70.2	72.4	2.2	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	67.2	70.0	2.8	No
Between 8 th Street and Porter Street	Commercial	67.6	69.5	1.9	No
Between Jesse Street and 7 th Street	Commercial	66.2	68.1	1.9	No
Between Mesquit Street and Jesse Street	Commercial	66.8	68.7	1.9	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.1	70.5	0.4	No
Between Porter and Olympic Boulevard	Commercial	69.0	70.4	1.4	No
Between Willow Street and Mesquit Street	Commercial	63.4	66.1	2.7	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	55.2	58.0	2.8	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.6	3.8	No

SOURCE: ESA, 2021.

**OFF-SITE TRAFFIC NOISE IMPACTS – FUTURE (2026) PROJECT WITH THE DECK CONCEPT
CUMULATIVE INCREMENT**

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Existing (A)	Future Plus Project (B)	Cumulative Increment (B-A)	Exceed Threshold?
4th Street					
Between S. Alameda Street and Molino Street	Commercial	69.1	70.1	1.0	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	68.4	69.9	1.5	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.1	69.3	1.2	No
Between Mateo Street and Santa Fe Avenue	Commercial	66.6	68.2	1.6	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	68.1	70.5	2.4	No
Between S. Alameda Street and Mateo Street	Commercial	67.9	70.8	2.9	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	69.0	71.0	2.0	No
Between S. Central Avenue and S. Alameda Street	Commercial	68.3	70.6	2.3	No
Between Rio Street and Anderson Street	Commercial	68.4	70.6	2.2	No
Between Santa Fe Avenue and S. Rio Street	Commercial	68.6	70.7	2.1	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	66.7	68.6	1.9	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	65.4	66.6	1.2	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	58.6	63.3	4.7	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.7	4.5	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial	62.6	65.9	3.3	No
Between E. 4 th Place and Willow Street	Commercial	62.1	66.5	4.4	No
Between Jesse Street and 7 th Street	Commercial	63.7	66.3	2.6	No
Between Willow Street and 6 th Street	Commercial	62.6	66.9	4.3	No
N. Alameda Street					
Between Aliso Street and Temple Street	Commercial	70.8	72.5	1.7	No

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Existing (A)	Future Plus Project (B)	Cumulative Increment (B-A)	Exceed Threshold?
Between Temple Street and East 1 st Street	Residential/Commercial	70.8	72.9	2.1	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	69.6	72.9	3.3	Yes
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	65.9	67.1	1.2	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	69.9	72.5	2.6	No
Between 4 th Street and 6 th Street	Industrial	70.3	72.6	2.3	No
Between 6 th Street and 7 th Street	Industrial	70.5	72.6	2.1	No
Between E. 2 nd Street and 3 rd Street		70.2	72.5	2.3	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	67.2	70.0	2.8	No
Between 8 th Street and Porter Street	Commercial	67.6	69.5	1.9	No
Between Jesse Street and 7 th Street	Commercial	66.2	68.1	1.9	No
Between Mesquit Street and Jesse Street	Commercial	66.8	68.7	2.1	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.1	70.6	0.5	No
Between Porter and Olympic Boulevard	Commercial	69.0	70.4	1.4	No
Between Willow Street and Mesquit Street	Commercial	63.4	66.1	2.7	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	55.2	57.9	2.7	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.4	3.6	No

SOURCE: ESA, 2021.

**OFF-SITE TRAFFIC NOISE IMPACTS – FUTURE (2040) PROJECT WITH THE DECK CONCEPT
CUMULATIVE INCREMENT**

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Existing (A)	Future Plus Project (B)	Cumulative Increment (B-A)	Exceed Threshold?
4th Street					
Between S. Alameda Street and Molino Street	Commercial	69.1	70.2	1.1	No
6th Street					
Between S. Alameda Street and Mateo Street	Industrial	68.4	70.0	1.6	No
Between Santa Fe Avenue and Boyle Avenue	Industrial	68.1	69.4	1.3	No
Between Mateo Street and Santa Fe Avenue	Commercial	66.6	68.3	1.7	No
7th Street					
Between Mateo Street and Santa Fe Avenue	Commercial	68.1	70.6	2.5	No
Between S. Alameda Street and Mateo Street	Commercial	67.9	70.9	3.0	No
Between S. Anderson Street and US-101 Southbound Ramp	Commercial	69.0	71.1	2.1	No
Between S. Central Avenue and S. Alameda Street	Commercial	68.3	70.7	2.4	No
Between Rio Street and Anderson Street	Commercial	68.4	70.7	2.3	No
Between Santa Fe Avenue and S. Rio Street	Commercial	68.6	70.8	2.2	No
Between US-101 Southbound Ramp and Boyle Avenue	Open Spaces	66.7	68.8	2.1	No
E. 8th Street					
Between I-10 Westbound Ramp and Santa Fe Avenue	Industrial	65.4	66.7	1.3	No
Jesse Street					
Between Mateo Street and Santa Fe Avenue	Industrial/Residential	58.6	63.5	4.9	No
Between Santa Fe Avenue and Mesquit Street	Industrial	60.2	64.8	4.6	No
Mateo Street					
Between 6 th Street and Jesse Street	Commercial	62.6	66.0	3.4	No
Between E. 4 th Place and Willow Street	Commercial	62.1	66.6	4.5	No
Between Jesse Street and 7 th Street	Commercial	63.7	66.4	2.7	No
Between Willow Street and 6 th Street	Commercial	62.6	67.0	4.4	No
N. Alameda Street					
Between Aliso Street and Temple Street	Commercial	70.8	72.6	1.8	No

Roadway Segment	Existing Land Uses Located Along Roadway Segment	CNEL (dBA)			
		Existing (A)	Future Plus Project (B)	Cumulative Increment (B-A)	Exceed Threshold?
Between Temple Street and East 1 st Street	Residential/Commercial	70.8	73.0	2.2	No
Between E. 1 st Street and E. 2 nd Street	Residential/Commercial	69.6	73.0	3.4	Yes
Porter Street					
Between I-10 Eastbound Ramp and Santa Fe Avenue	Industrial	65.9	67.2	1.3	No
S. Alameda Street					
Between 3 rd Street and 4 th Street	Commercial	69.9	72.6	2.7	No
Between 4 th Street and 6 th Street	Industrial	70.3	72.7	2.4	No
Between 6 th Street and 7 th Street	Industrial	70.5	72.7	2.2	No
Between E. 2 nd Street and 3 rd Street		70.2	72.5	2.3	No
Santa Fe Avenue					
Between 7 th Street and 8 th Street	Commercial	67.2	70.1	2.9	No
Between 8 th Street and Porter Street	Commercial	67.6	69.6	2.0	No
Between Jesse Street and 7 th Street	Commercial	66.2	68.2	2.0	No
Between Mesquit Street and Jesse Street	Commercial	66.8	68.8	2.0	No
Between Olympic Boulevard and E. 15 th Street	Commercial	70.1	70.7	0.6	No
Between Porter and Olympic Boulevard	Commercial	69.0	70.5	1.5	No
Between Willow Street and Mesquit Street	Commercial	63.4	66.2	2.8	No
Willow Street					
Between Mateo Street and Santa Fe Avenue	Commercial	55.2	58.0	2.8	No
Mesquit Street					
Between E. 6 th Street and E. 7 th Street	Industrial	60.8	64.6	3.8	No

SOURCE: ESA, 2021.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
 Analysis Scenario: Existing Baseline
 Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	3017	62	31	68.8	69.1
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	1770	36	18	68.1	68.4
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	1652	34	17	67.8	68.1
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1166	24	12	66.3	66.6
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1666	34	17	67.8	68.1
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	1593	33	16	67.6	67.9
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	2054	42	21	68.7	69.0
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	1724	35	18	68.0	68.3
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	1771	36	18	68.1	68.4
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	1848	38	19	68.3	68.6
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	1191	24	12	66.4	66.7
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	2145	44	22	70.5	70.8
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	893	18	9	65.1	65.4
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	268	5	3	58.3	58.6
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	27	13	12	59.9	60.2
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	670	14	7	62.3	62.6
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	590	12	6	61.8	62.1
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	864	18	9	63.4	63.7
Mateo St between Willow St and 6th St	Hard	30	25	25	25	674	14	7	62.3	62.6
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	2132	44	22	70.5	70.8
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	1633	34	17	69.3	69.6
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	998	20	10	65.6	65.9
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	1753	36	18	69.6	69.9
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	1900	39	20	70.0	70.3
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	1989	41	21	70.2	70.5
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	1875	39	19	69.9	70.2
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	1348	28	14	66.9	67.2
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	1472	30	15	67.3	67.6
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	774	30	20	65.9	66.2
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	783	20	11	66.5	66.8
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	2600	53	27	69.8	70.1
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	2051	42	21	68.7	69.0
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	788	17	8	63.1	63.4
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	123	3	1	54.9	55.2
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	9	16	13	60.5	60.8

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
 Analysis Scenario: Existing Plus Project without Deck
 Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	3072	63	31	68.9	69.2
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	1910	39	19	68.4	68.7
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	1879	38	19	68.4	68.7
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1330	27	14	66.9	67.2
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1856	38	19	68.3	68.6
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	1929	39	20	68.5	68.8
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	2251	46	23	69.1	69.4
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	1855	38	19	68.3	68.6
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	1967	40	20	68.6	68.9
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	2027	41	21	68.7	69.0
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	1348	28	14	66.9	67.2
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	2248	46	23	70.7	71.0
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	913	19	9	65.2	65.5
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	711	15	7	62.6	62.9
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	1054	22	11	64.3	64.6
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	858	18	9	63.4	63.7
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	691	14	7	62.5	62.8
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	1089	22	11	64.4	64.7
Mateo St between Willow St and 6th St	Hard	30	25	25	25	761	16	8	62.9	63.2
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	2232	46	23	70.7	71.0
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	1738	36	18	69.6	69.9
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	1043	21	11	65.8	66.1
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	1903	39	20	70.0	70.3
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	2061	43	21	70.3	70.6
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	2069	43	21	70.4	70.7
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	1984	41	20	70.2	70.5
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	1520	31	16	67.4	67.7
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	1662	34	17	67.8	68.1
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	1194	24	12	66.4	66.7
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	899	18	9	66.7	67.0
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	2689	55	27	69.9	70.2
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	2185	45	22	69.0	69.3
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	1018	21	10	64.1	64.4
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	174	4	2	56.5	56.8
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	985	20	10	64.0	64.3

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
Analysis Scenario: Existing Plus Project Plus Related Projects without Deck
Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	3726	76	38	69.8	70.1
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	2490	51	25	69.6	69.9
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	2124	43	22	68.9	69.2
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1666	34	17	67.8	68.1
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	2819	58	29	70.1	70.4
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	3062	62	31	70.5	70.8
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	3180	65	32	70.6	70.9
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	2932	60	30	70.3	70.6
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	2896	59	30	70.2	70.5
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	2967	61	30	70.3	70.6
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	1863	38	19	68.3	68.6
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	3468	72	36	72.6	72.9
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	1152	24	12	66.2	66.5
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	770	16	8	62.9	63.2
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	1054	22	11	64.3	64.6
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	1414	29	14	65.6	65.9
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	1634	34	17	66.2	66.5
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	1558	32	16	66.0	66.3
Mateo St between Willow St and 6th St	Hard	30	25	25	25	1789	37	18	66.6	66.9
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	3165	65	33	72.2	72.5
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	3440	71	35	72.6	72.9
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	1317	27	13	66.8	67.1
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	3162	65	33	72.2	72.5
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	3200	66	33	72.3	72.6
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	3199	66	33	72.3	72.6
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	3108	64	32	72.1	72.4
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	2565	52	26	69.7	70.0
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	2265	46	23	69.2	69.5
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	1642	34	17	67.8	68.1
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	1304	27	13	68.4	68.7
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	2872	59	29	70.2	70.5
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	2775	57	28	70.1	70.4
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	1472	30	15	65.7	66.0
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	223	5	2	57.5	57.8
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	985	20	10	64.0	64.3

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
Analysis Scenario: Existing Plus Project with Deck
Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	3079	63	31	68.9	69.2
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	1915	39	20	68.4	68.7
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	1900	39	19	68.4	68.7
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1342	27	14	66.9	67.2
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1878	38	19	68.4	68.7
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	1949	40	20	68.5	68.8
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	2255	46	23	69.2	69.5
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	1860	38	19	68.3	68.6
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	1972	40	20	68.6	68.9
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	2032	41	21	68.7	69.0
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	1352	28	14	66.9	67.2
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	2251	46	23	70.7	71.0
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	914	19	9	65.2	65.5
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	747	15	8	62.8	63.1
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	1115	23	11	64.5	64.8
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	877	18	9	63.5	63.8
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	704	15	7	62.5	62.8
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	1106	23	11	64.5	64.8
Mateo St between Willow St and 6th St	Hard	30	25	25	25	769	16	8	62.9	63.2
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	2238	46	23	70.7	71.0
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	1742	36	18	69.6	69.9
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	1043	21	11	65.8	66.1
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	1906	39	20	70.0	70.3
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	2065	43	21	70.4	70.7
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	2073	43	21	70.4	70.7
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	1987	41	20	70.2	70.5
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	1524	31	16	67.4	67.7
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	1666	34	17	67.8	68.1
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	1209	25	12	66.4	66.7
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	916	19	9	66.8	67.1
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	2693	55	27	69.9	70.2
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	2188	45	22	69.0	69.3
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	1052	21	11	64.3	64.6
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	180	4	2	56.6	56.9
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	1047	21	11	64.3	64.6

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
Analysis Scenario: Existing Plus Project Plus Related Projects with Deck
Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	3733	76	38	69.8	70.1
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	2496	51	25	69.6	69.9
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	2145	44	22	68.9	69.2
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1678	34	17	67.9	68.2
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	2841	58	29	70.2	70.5
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	3082	63	31	70.5	70.8
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	3184	65	32	70.6	70.9
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	2937	60	30	70.3	70.6
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	2901	59	30	70.2	70.5
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	2972	61	30	70.4	70.7
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	1867	38	19	68.3	68.6
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	3470	72	36	72.6	72.9
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	1152	24	12	66.2	66.5
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	807	16	8	63.1	63.4
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	1115	23	11	64.5	64.8
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	1434	29	15	65.6	65.9
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	1648	34	17	66.2	66.5
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	1574	32	16	66.0	66.3
Mateo St between Willow St and 6th St	Hard	30	25	25	25	1796	37	18	66.6	66.9
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	3171	65	33	72.2	72.5
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	3443	71	35	72.6	72.9
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	1317	27	13	66.8	67.1
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	3165	65	33	72.2	72.5
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	3204	66	33	72.3	72.6
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	3203	66	33	72.3	72.6
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	3110	64	32	72.1	72.4
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	2569	52	26	69.7	70.0
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	2269	46	23	69.2	69.5
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	1657	34	17	67.8	68.1
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	1321	27	13	68.4	68.7
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	2876	59	29	70.2	70.5
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	2778	57	28	70.1	70.4
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	1505	31	15	65.8	66.1
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	229	5	2	57.7	58.0
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	1047	21	11	64.3	64.6

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
 Analysis Scenario: Future 2026 Baseline
 Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	3696	75	38	69.7	70.0
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	2373	48	24	69.4	69.7
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	1924	39	20	68.5	68.8
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1521	31	16	67.4	67.7
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	2656	54	27	69.9	70.2
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	2752	56	28	70.0	70.3
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	3015	62	31	70.4	70.7
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	2808	57	29	70.1	70.4
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	2727	56	28	70.0	70.3
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	2818	58	29	70.1	70.4
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	1724	35	18	68.0	68.3
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	3378	70	35	72.5	72.8
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	1146	23	12	66.2	66.5
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	331	7	3	59.3	59.6
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	27	13	12	59.9	60.2
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	1237	25	13	65.0	65.3
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	1507	31	16	65.9	66.2
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	1329	27	14	65.3	65.6
Mateo St between Willow St and 6th St	Hard	30	25	25	25	1713	35	17	66.4	66.7
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	3099	64	32	72.1	72.4
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	3345	69	34	72.5	72.8
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	1284	26	13	66.7	67.0
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	3040	63	31	72.0	72.3
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	3069	63	32	72.1	72.4
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	3151	65	32	72.2	72.5
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	3004	62	31	72.0	72.3
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	2414	49	25	69.4	69.7
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	2098	43	21	68.8	69.1
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	1234	40	25	67.5	67.8
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	1183	28	15	68.2	68.5
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	2824	58	29	70.1	70.4
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	2674	55	27	69.9	70.2
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	1191	25	12	64.8	65.1
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	174	4	2	56.5	56.8
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	9	16	13	60.5	60.8

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
 Analysis Scenario: Future 2026 Plus Project without Deck
 Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	3769	77	38	69.8	70.1
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	2515	51	26	69.6	69.9
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	2150	44	22	68.9	69.2
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1685	34	17	67.9	68.2
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	2846	58	29	70.2	70.5
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	3087	63	32	70.5	70.8
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	3212	66	33	70.7	71.0
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	2960	60	30	70.3	70.6
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	2923	60	30	70.3	70.6
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	2997	61	31	70.4	70.7
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	1882	38	19	68.4	68.7
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	3498	72	36	72.6	72.9
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	1166	24	12	66.3	66.6
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	774	16	8	62.9	63.2
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	1054	22	11	64.3	64.6
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	1424	29	15	65.6	65.9
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	1642	34	17	66.2	66.5
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	1567	32	16	66.0	66.3
Mateo St between Willow St and 6th St	Hard	30	25	25	25	1800	37	18	66.6	66.9
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	3199	66	33	72.3	72.6
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	3465	71	36	72.6	72.9
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	1330	27	14	66.9	67.2
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	3190	66	33	72.2	72.5
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	3230	67	33	72.3	72.6
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	3230	67	33	72.3	72.6
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	3132	65	32	72.2	72.5
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	2585	53	26	69.7	70.0
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	2288	47	23	69.2	69.5
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	1654	34	17	67.8	68.1
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	1316	27	13	68.4	68.7
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	2914	59	30	70.3	70.6
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	2809	57	29	70.1	70.4
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	1484	30	15	65.8	66.1
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	226	5	2	57.6	57.9
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	985	20	10	64.0	64.3

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
 Analysis Scenario: Future 2026 Plus Project with Deck
 Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	3770	77	38	69.8	70.1
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	2510	51	26	69.6	69.9
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	2155	44	22	69.0	69.3
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1684	34	17	67.9	68.2
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	2857	58	29	70.2	70.5
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	3077	63	31	70.5	70.8
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	3196	65	33	70.7	71.0
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	2950	60	30	70.3	70.6
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	2907	59	30	70.3	70.6
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	2981	61	30	70.4	70.7
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	1871	38	19	68.3	68.6
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	3490	72	36	72.6	72.9
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	1163	24	12	66.3	66.6
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	779	16	8	63.0	63.3
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	1078	22	11	64.4	64.7
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	1431	29	15	65.6	65.9
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	1643	34	17	66.2	66.5
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	1556	32	16	66.0	66.3
Mateo St between Willow St and 6th St	Hard	30	25	25	25	1802	37	18	66.6	66.9
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	3191	66	33	72.2	72.5
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	3457	71	36	72.6	72.9
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	1325	27	14	66.8	67.1
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	3180	66	33	72.2	72.5
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	3220	66	33	72.3	72.6
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	3227	67	33	72.3	72.6
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	3122	64	32	72.2	72.5
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	2572	52	26	69.7	70.0
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	2276	46	23	69.2	69.5
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	1642	34	17	67.8	68.1
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	1328	27	14	68.4	68.7
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	2909	59	30	70.3	70.6
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	2801	57	29	70.1	70.4
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	1498	31	15	65.8	66.1
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	228	5	2	57.6	57.9
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	1012	21	10	64.1	64.4

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
 Analysis Scenario: Future 2040 Baseline
 Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	3773	77	39	69.8	70.1
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	2419	49	25	69.5	69.8
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	1970	40	20	68.6	68.9
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1553	32	16	67.5	67.8
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	2702	55	28	69.9	70.2
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	2797	57	29	70.1	70.4
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	3073	63	31	70.5	70.8
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	2855	58	29	70.2	70.5
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	2778	57	28	70.1	70.4
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	2871	59	29	70.2	70.5
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	1758	36	18	68.1	68.4
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	3430	71	35	72.6	72.9
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	1169	24	12	66.3	66.6
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	338	7	3	59.3	59.6
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	29	13	12	59.9	60.2
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	1256	26	13	65.0	65.3
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	1524	31	16	65.9	66.2
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	1352	28	14	65.4	65.7
Mateo St between Willow St and 6th St	Hard	30	25	25	25	1732	35	18	66.4	66.7
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	3159	65	33	72.2	72.5
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	3390	70	35	72.5	72.8
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	1313	27	13	66.8	67.1
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	3089	64	32	72.1	72.4
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	3123	64	32	72.2	72.5
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	3207	66	33	72.3	72.6
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	3049	63	31	72.0	72.3
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	2453	50	25	69.5	69.8
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	2140	44	22	68.9	69.2
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	1256	40	25	67.5	67.8
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	1202	29	15	68.2	68.5
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	2898	59	30	70.2	70.5
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	2732	56	28	70.0	70.3
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	1211	26	12	64.9	65.2
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	176	4	2	56.5	56.8
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	11	16	13	60.5	60.8

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
 Analysis Scenario: Future 2040 Plus Project without Deck
 Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	3847	79	39	69.9	70.2
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	2561	52	26	69.7	70.0
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	2196	45	22	69.0	69.3
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1717	35	18	68.0	68.3
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	2892	59	30	70.2	70.5
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	3132	64	32	70.6	70.9
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	3270	67	33	70.8	71.1
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	3007	61	31	70.4	70.7
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	2974	61	30	70.4	70.7
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	3050	62	31	70.5	70.8
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	1916	39	20	68.4	68.7
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	3550	73	37	72.7	73.0
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	1190	24	12	66.4	66.7
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	781	16	8	63.0	63.3
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	1054	22	11	64.3	64.6
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	1444	29	15	65.6	65.9
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	1659	34	17	66.3	66.6
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	1587	32	16	66.1	66.4
Mateo St between Willow St and 6th St	Hard	30	25	25	25	1819	37	19	66.7	67.0
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	3259	67	34	72.3	72.6
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	3510	72	36	72.7	73.0
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	1358	28	14	66.9	67.2
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	3240	67	33	72.3	72.6
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	3284	68	34	72.4	72.7
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	3286	68	34	72.4	72.7
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	3177	66	33	72.2	72.5
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	2624	54	27	69.8	70.1
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	2330	48	24	69.3	69.6
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	1676	34	17	67.9	68.2
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	1336	27	14	68.5	68.8
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	2987	61	30	70.4	70.7
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	2867	59	29	70.2	70.5
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	1504	31	15	65.8	66.1
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	228	5	2	57.6	57.9
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	986	20	10	64.0	64.3

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

TRAFFIC NOISE ANALYSIS TOOL



Project Name: 670 Mesquit
 Analysis Scenario: Future 2040 Plus Project with Deck
 Source of Traffic Volumes: Fehr & Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	Noise Level dBA CNEL
			Auto	MT	HT	Auto	MT	HT		
4th St between S Alameda St and Molino St	Hard	30	25	25	25	3853	79	39	69.9	70.2
6th St between S Alameda St and Mateo St	Hard	30	30	30	30	2567	52	26	69.7	70.0
6th St/Whittier Blvd between Santa Fe Ave and Boyle Ave	Hard	30	30	30	30	2218	45	23	69.1	69.4
6th Street between Mateo St and Santa Fe Ave	Hard	30	30	30	30	1729	35	18	68.0	68.3
7th St between Mateo St and Santa Fe Ave	Hard	30	30	30	30	2914	59	30	70.3	70.6
7th St between S Alameda St and Mateo St	Hard	30	30	30	30	3153	64	32	70.6	70.9
7th St between S Anderson St and US-101 Southbound ramp	Hard	30	30	30	30	3274	67	33	70.8	71.1
7th St between S Central Ave and S Alameda St	Hard	30	30	30	30	3012	61	31	70.4	70.7
7th St between S Rio St and S Anderson St	Hard	30	30	30	30	2979	61	30	70.4	70.7
7th St between Santa Fe Ave and S Rio St	Hard	30	30	30	30	3055	62	31	70.5	70.8
7th St between US-101 Southbound ramp and Boyle Ave	Hard	30	30	30	30	1920	39	20	68.5	68.8
N Alameda St between Temple St and E 1st St	Hard	30	35	35	35	3552	73	37	72.7	73.0
E 8th St between I-10 Westbound ramp and Santa Fe Ave	Hard	30	30	30	30	1191	24	12	66.4	66.7
Jesse St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	817	17	8	63.2	63.5
Jesse St between Santa Fe Ave and Mesquit St	Hard	30	25	25	25	1116	23	11	64.5	64.8
Mateo St between 6th St and Jesse St	Hard	30	25	25	25	1463	30	15	65.7	66.0
Mateo St between E 4th Pl and Willow St	Hard	30	25	25	25	1672	34	17	66.3	66.6
Mateo St between Jesse St and 7th St	Hard	30	25	25	25	1602	33	16	66.1	66.4
Mateo St between Willow St and 6th St	Hard	30	25	25	25	1827	37	19	66.7	67.0
N Alameda St between Aliso St and Temple St	Hard	30	35	35	35	3265	67	34	72.3	72.6
N Alameda St between E 1st St and E 2nd St	Hard	30	35	35	35	3513	72	36	72.7	73.0
Porter St between I-10 Eastbound ramp and Santa Fe Ave	Hard	30	30	30	30	1358	28	14	66.9	67.2
S Alameda St between 3rd St and 4th St	Hard	30	35	35	35	3243	67	33	72.3	72.6
S Alameda St between 4th St and 6th St	Hard	30	35	35	35	3288	68	34	72.4	72.7
S Alameda St between 6th St and 7th St	Hard	30	35	35	35	3290	68	34	72.4	72.7
S Alameda St between E 2nd St and 3rd St	Hard	30	35	35	35	3179	66	33	72.2	72.5
Santa Fe Ave between 7th St and 8th St	Hard	30	30	30	30	2628	54	27	69.8	70.1
Santa Fe Ave between 8th St and Porter St	Hard	30	30	30	30	2334	48	24	69.3	69.6
Santa Fe Ave between Jesse St and 7th St	Hard	30	30	30	30	1691	35	17	67.9	68.2
Santa Fe Ave between Mesquit St and Jesse St	Hard	30	35	35	35	1352	28	14	68.5	68.8
Santa Fe Ave between Olympic Blvd and E 15th St	Hard	30	30	30	30	2991	61	31	70.4	70.7
Santa Fe Ave between Porter St and Olympic Blvd	Hard	30	30	30	30	2869	59	29	70.2	70.5
Santa Fe Ave between Willow St and Mesquit St	Hard	30	25	25	25	1538	31	16	65.9	66.2
Willow St between Mateo St and Santa Fe Ave	Hard	30	25	25	25	234	5	2	57.7	58.0
Mesquit St between E 6th St and E 7th St	Hard	30	25	25	25	1048	21	11	64.3	64.6

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
 The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
 Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
 Noise propagation greater than 50 feet is based on the following assumptions:
 For hard ground, the propagation rate is 3 dB per doubling the distance.
 For soft ground, the propagation rate is 4.5 dB per doubling the distance.
 Vehicles are assumed to be on a long straight roadway with cruise speed.
 Roadway grade is less than 1.5%.
 CNEL levels were obtained based on Figure 2-19, on page 2-58 Caltran's TeNS 2013.

CNEL Operations

COMPOSITE NOISE LEVELS FROM PROJECT OPERATIONS - UNMITIGATED

Operational Noise Sources	Noise Levels, dBA CNEL			
	R1	R2	R3	R4
Existing (Ambient) Noise Level (A) ^a	74.7	79.6	76.9	70.9
Project Composite Noise Sources				
Open spaces	78.3	82.7	74.4	73.0
Mechanical equipment	41.4	43.6	40.1	30.3
Parking Structure	69.7	55.7	53.3	37.8
Loading dock areas	47.6	47.6	40.7	47.1
Emergency generator	71.2	47.7	45.2	35.0
Heliport	60.0	55.0	55.0	45.0
Offsite traffic ^c				
<i>Future without Project traffic noise level</i>	70.5	70.5	67.8	60.8
<i>Future plus Project traffic noise level</i>	70.8	70.8	68.2	64.3
Estimated Project-only traffic noise level	59.0	59.0	57.6	61.7
Project Composite Noise Level (B)	79.6	82.7	74.6	73.3
Existing Plus Project Composite Noise Level (C)	80.8	84.4	78.9	75.3
Project Increment (C minus A)	6.1	4.8	2.0	4.4
Exceeds Threshold?	Yes	No	No	No

^a CNEL level is from Appendix J. Ambient noise levels at R1, R2, R3, R4 correspond to measurement locations M1, M5, M6, and M3, respectively.

^b CNEL levels for each noise source are calculated based on operational hours of each noise source.

^c R1: 7th Street between Santa Fe Avenue and S. Rio Street. R2: 7th Street between Santa Fe Avenue and S. Rio Street. R3: Santa Fe Avenue between Jesse Street and 7th Street. R4: Mesquit Street between 6th Street and 7th Street.

SOURCE: ESA 2021.

COMPOSITE NOISE LEVELS FROM PROJECT OPERATIONS – PROJECT WITH DECK CONCEPT - UNMITIGATED

Operational Noise Sources	Noise Levels, dBA CNEL			
	R1	R2	R3	R4
Existing (Ambient) Noise Level (A) <small>a</small>	74.7	79.6	76.9	70.9
Project Composite Noise Sources				
Open spaces	78.4	84.3	74.6	73.2
Mechanical equipment	41.4	43.6	40.1	30.3
Parking Structure	69.7	55.7	53.7	38.1
Loading dock areas	47.6	47.6	40.7	47.1
Emergency generator	71.2	47.7	45.2	35.0
Heliport	60.0	55.0	55.0	45.0
Offsite traffic ^c				
<i>Future without Project traffic noise level</i>	70.5	70.5	67.8	60.8
<i>Future plus Project traffic noise level</i>	70.8	70.8	68.2	64.6
Estimated Project-only traffic noise level	59.0	59.0	57.6	62.3
Project Composite Noise Level (B)	79.7	84.3	74.7	73.6
Existing Plus Project Composite Noise Level (C)	80.9	85.6	79.0	75.4
Project Increment (C minus A)	6.2	6.0	2.1	4.5
Exceeds Threshold?	Yes	Yes	No	No

^a CNEL level is from Appendix J. Ambient noise levels at R1, R2, R3, R4 correspond to measurement locations M1, M5, M6, and M3, respectively.

^b CNEL levels for each noise source are calculated based on operational hours of each noise source.

^c R1: 7th Street between Santa Fe Avenue and S. Rio Street. R2: 7th Street between Santa Fe Avenue and S. Rio Street. R3: Santa Fe Avenue between Jesse Street and 7th Street. R4: Mesquit Street between 6th Street and 7th Street.

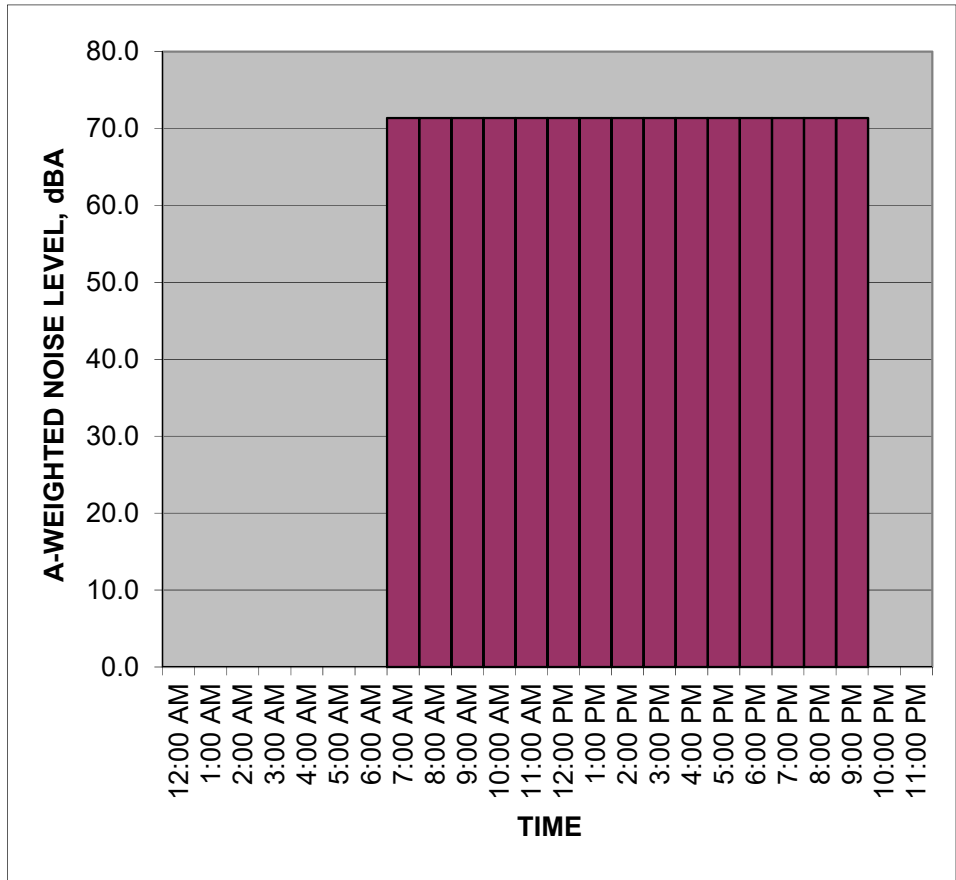
SOURCE: ESA, 2021.

Open Space CNEL

R1

Project: R1
 Location: R1
 Sources: 7th Street Terrace

TIME	HNL, dB(A)
12:00 AM	62.2
1:00 AM	62.2
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	62.2
8:00 AM	62.2
9:00 AM	62.2
10:00 AM	62.2
11:00 AM	62.2
12:00 PM	62.2
1:00 PM	62.2
2:00 PM	62.2
3:00 PM	62.2
4:00 PM	62.2
5:00 PM	62.2
6:00 PM	62.2
7:00 PM	62.2
8:00 PM	62.2
9:00 PM	62.2
10:00 PM	62.2
11:00 PM	62.2
CNEL, dB(A):	67.3

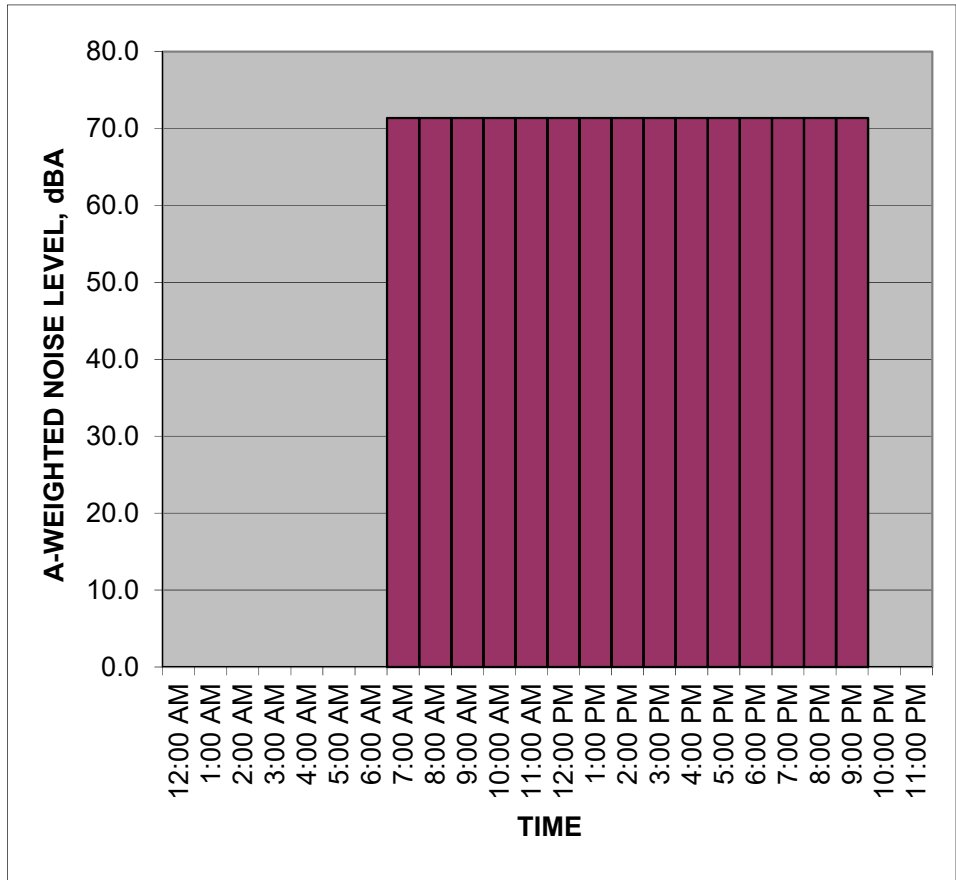


NOTES:

R1

Project: R1
 Location: R1
 Sources: Fitness Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	68.8
8:00 AM	68.8
9:00 AM	68.8
10:00 AM	68.8
11:00 AM	68.8
12:00 PM	68.8
1:00 PM	68.8
2:00 PM	68.8
3:00 PM	68.8
4:00 PM	68.8
5:00 PM	68.8
6:00 PM	68.8
7:00 PM	68.8
8:00 PM	68.8
9:00 PM	68.8
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	70.3

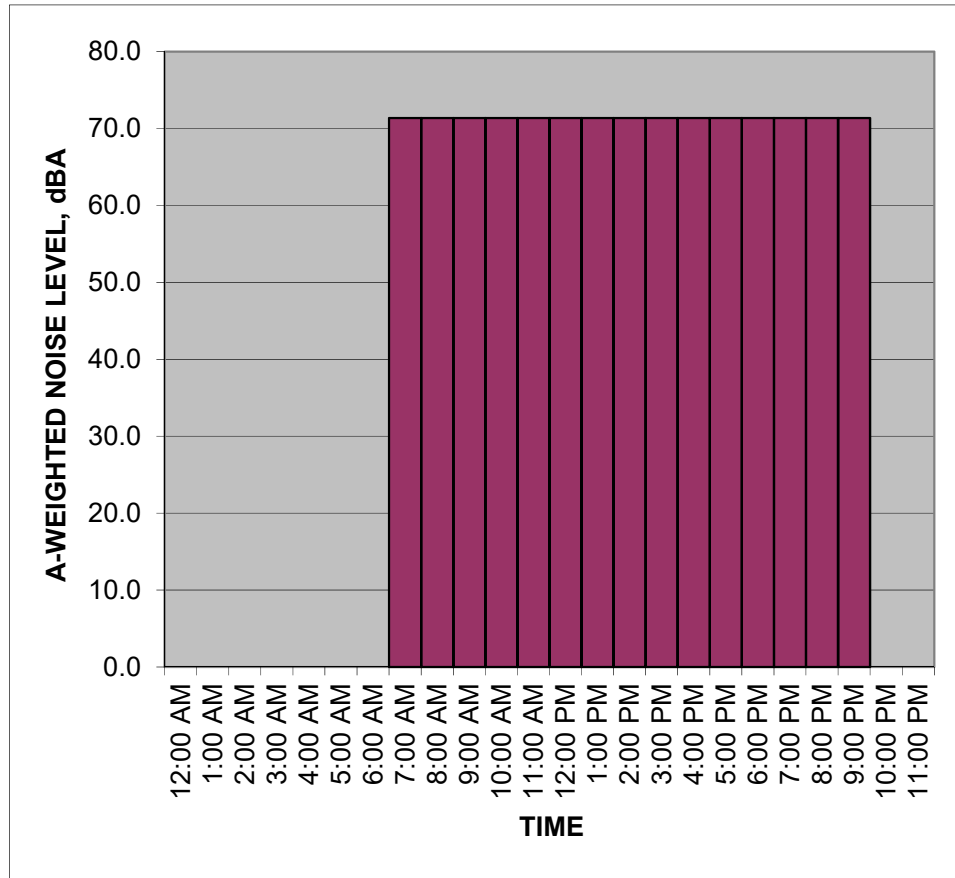


NOTES:

R1

Project: R1
 Location: R1
 Sources: Public Plaza Flex Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	70.4
8:00 AM	70.4
9:00 AM	70.4
10:00 AM	70.4
11:00 AM	70.4
12:00 PM	70.4
1:00 PM	70.4
2:00 PM	70.4
3:00 PM	70.4
4:00 PM	70.4
5:00 PM	70.4
6:00 PM	70.4
7:00 PM	70.4
8:00 PM	70.4
9:00 PM	70.4
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	72.0

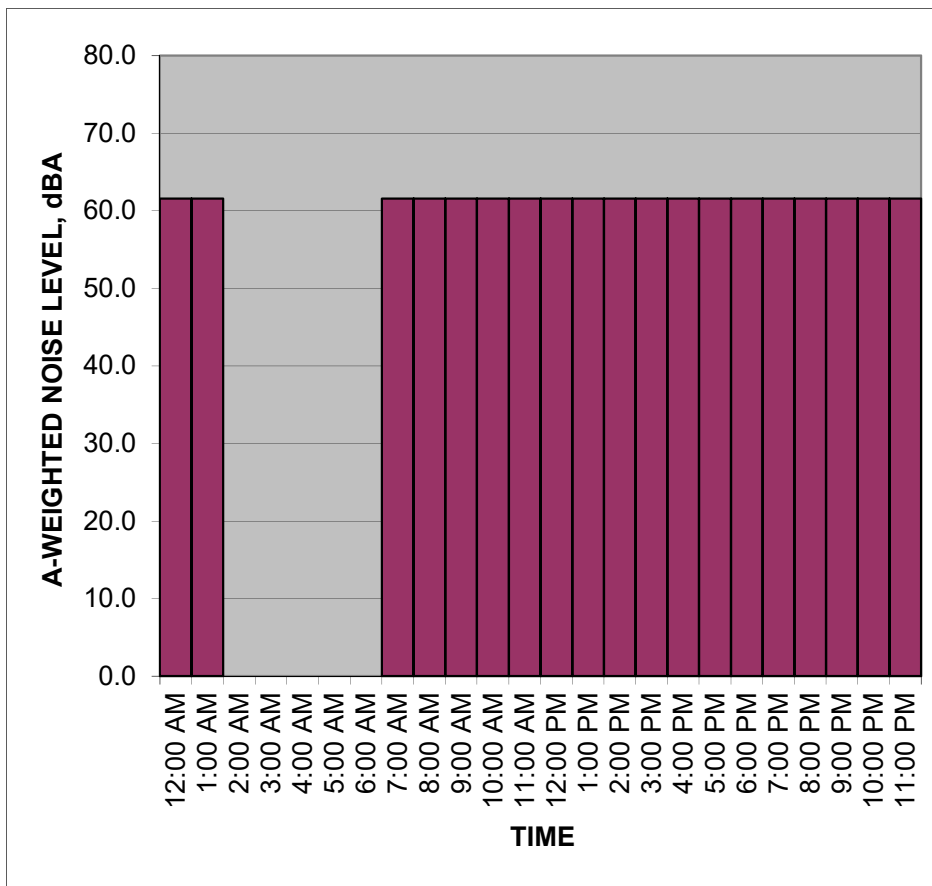


NOTES:

CNEL Calculation

Project: R1
 Location: R1
 Sources: Hotel Pool/Bar

TIME	HNL, dB(A)
12:00 AM	61.6
1:00 AM	61.6
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	61.6
8:00 AM	61.6
9:00 AM	61.6
10:00 AM	61.6
11:00 AM	61.6
12:00 PM	61.6
1:00 PM	61.6
2:00 PM	61.6
3:00 PM	61.6
4:00 PM	61.6
5:00 PM	61.6
6:00 PM	61.6
7:00 PM	61.6
8:00 PM	61.6
9:00 PM	61.6
10:00 PM	61.6
11:00 PM	61.6
CNEL, dB(A):	66.7

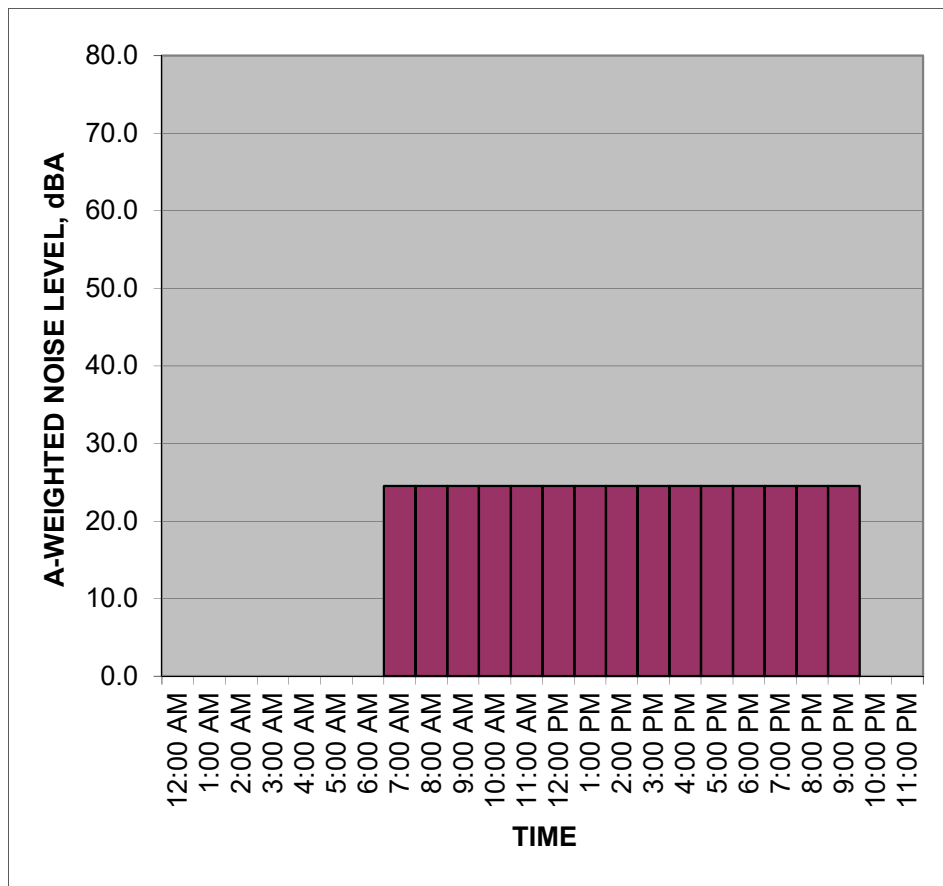


NOTES:

CNEL Calculation

Project: R1
 Location: R1
 Sources: Northern Landscaped Area

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	24.5
8:00 AM	24.5
9:00 AM	24.5
10:00 AM	24.5
11:00 AM	24.5
12:00 PM	24.5
1:00 PM	24.5
2:00 PM	24.5
3:00 PM	24.5
4:00 PM	24.5
5:00 PM	24.5
6:00 PM	24.5
7:00 PM	24.5
8:00 PM	24.5
9:00 PM	24.5
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	26.1

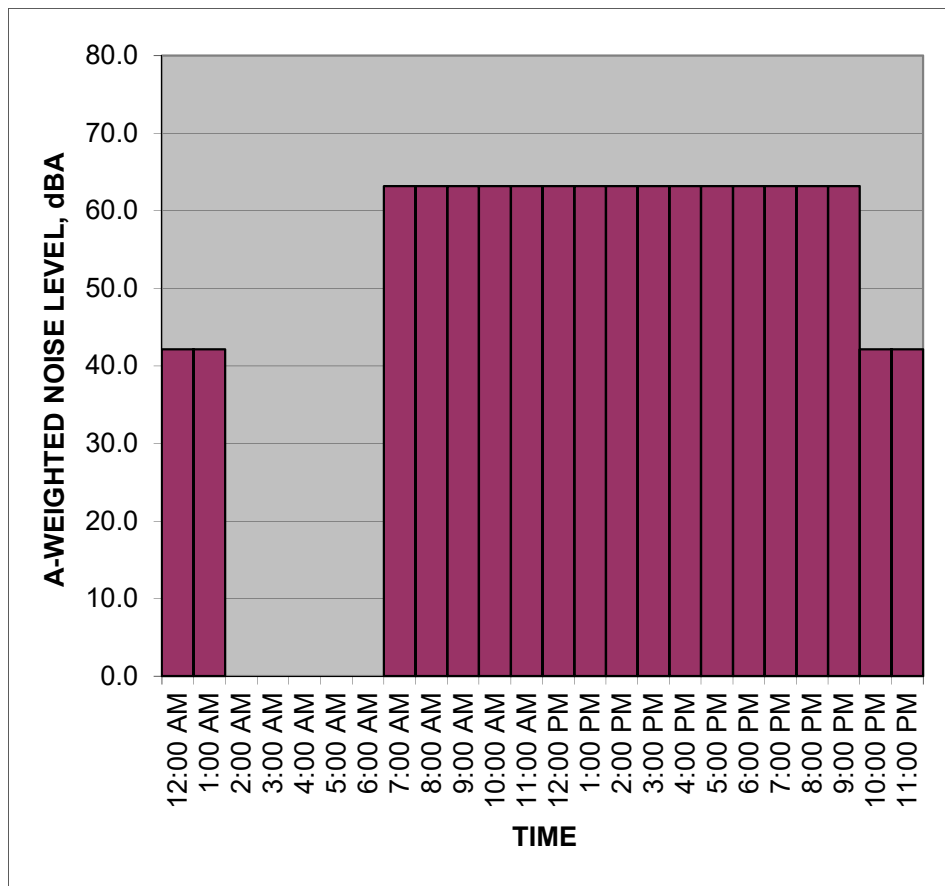


NOTES:

CNEL Calculation

Project: R1
 Location: R1
 Sources: Residential Pool

TIME	HNL, dB(A)
12:00 AM	42.1
1:00 AM	42.1
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	63.2
8:00 AM	63.2
9:00 AM	63.2
10:00 AM	63.2
11:00 AM	63.2
12:00 PM	63.2
1:00 PM	63.2
2:00 PM	63.2
3:00 PM	63.2
4:00 PM	63.2
5:00 PM	63.2
6:00 PM	63.2
7:00 PM	63.2
8:00 PM	63.2
9:00 PM	63.2
10:00 PM	42.1
11:00 PM	42.1
CNEL, dB(A):	63.8

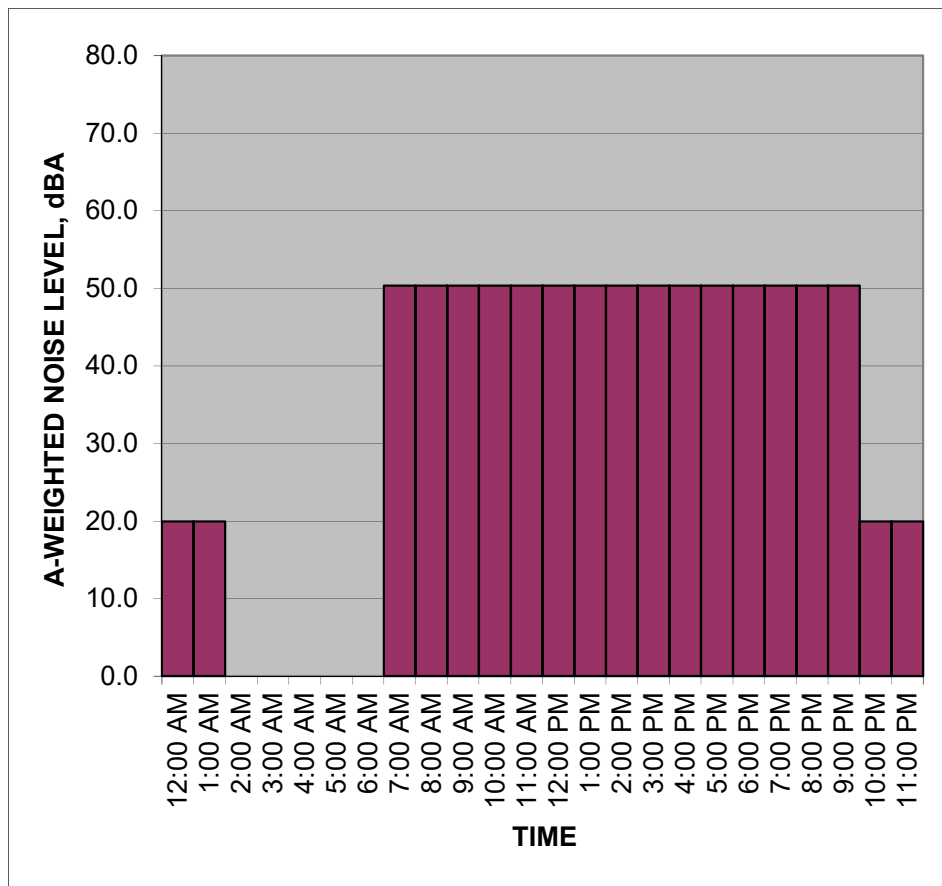


NOTES:

CNEL Calculation

Project: R1
 Location: R1
 Sources: River Balcony N

TIME	HNL, dB(A)
12:00 AM	19.9
1:00 AM	19.9
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	50.4
8:00 AM	50.4
9:00 AM	50.4
10:00 AM	50.4
11:00 AM	50.4
12:00 PM	50.4
1:00 PM	50.4
2:00 PM	50.4
3:00 PM	50.4
4:00 PM	50.4
5:00 PM	50.4
6:00 PM	50.4
7:00 PM	50.4
8:00 PM	50.4
9:00 PM	50.4
10:00 PM	19.9
11:00 PM	19.9
CNEL, dB(A):	50.9

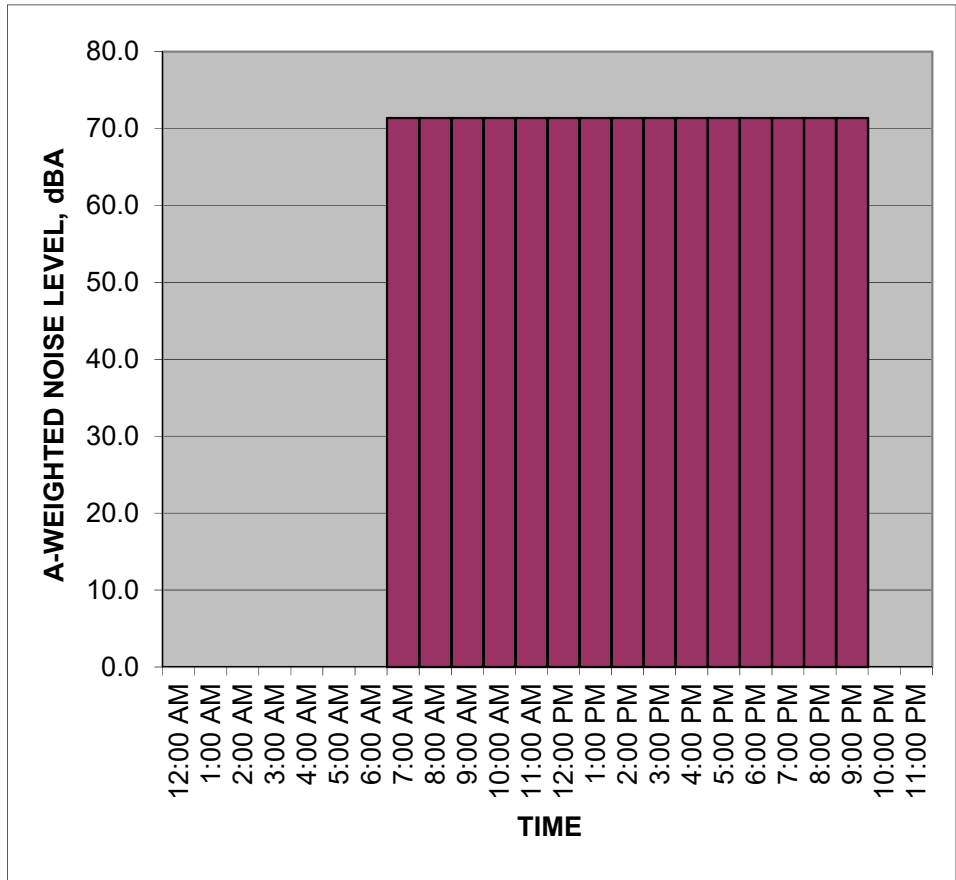


NOTES:

R1

Project: R1
 Location: R1
 Sources: River Balcony South

TIME	HNL, dB(A)
12:00 AM	22.9
1:00 AM	22.9
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	58.1
8:00 AM	58.1
9:00 AM	58.1
10:00 AM	58.1
11:00 AM	58.1
12:00 PM	58.1
1:00 PM	58.1
2:00 PM	58.1
3:00 PM	58.1
4:00 PM	58.1
5:00 PM	58.1
6:00 PM	58.1
7:00 PM	58.1
8:00 PM	58.1
9:00 PM	58.1
10:00 PM	22.9
11:00 PM	22.9
CNEL, dB(A):	58.6

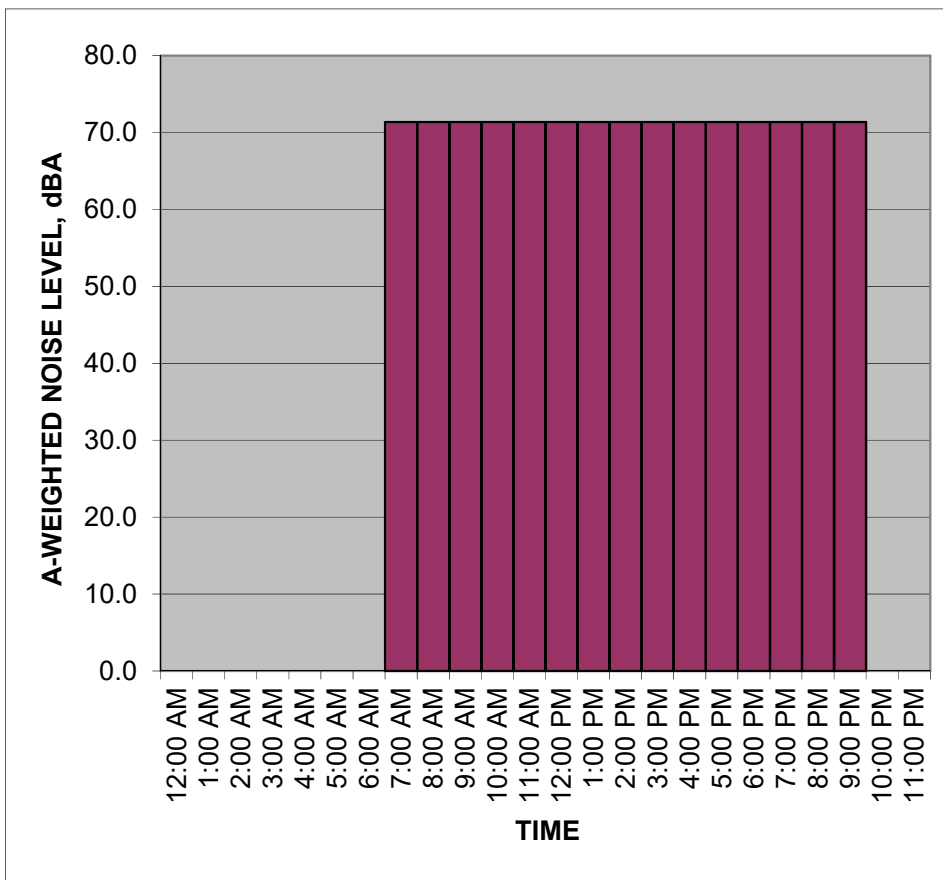


NOTES:

R1

Project: R1
 Location: R1
 Sources: Sculpture Garden

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	67.1
8:00 AM	67.1
9:00 AM	67.1
10:00 AM	67.1
11:00 AM	67.1
12:00 PM	67.1
1:00 PM	67.1
2:00 PM	67.1
3:00 PM	67.1
4:00 PM	67.1
5:00 PM	67.1
6:00 PM	67.1
7:00 PM	67.1
8:00 PM	67.1
9:00 PM	67.1
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	68.7

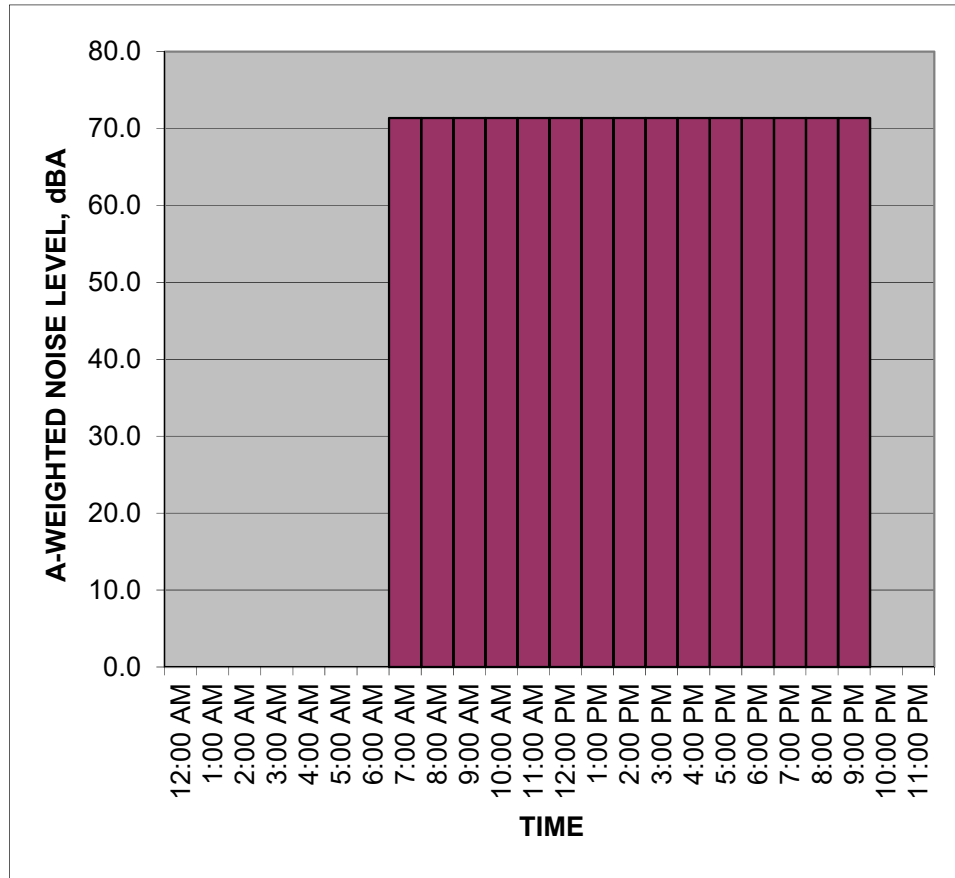


NOTES:

R1

Project: R1
 Location: R1
 Sources: Work Breakout Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	38.7
8:00 AM	38.7
9:00 AM	38.7
10:00 AM	38.7
11:00 AM	38.7
12:00 PM	38.7
1:00 PM	38.7
2:00 PM	38.7
3:00 PM	38.7
4:00 PM	38.7
5:00 PM	38.7
6:00 PM	38.7
7:00 PM	38.7
8:00 PM	38.7
9:00 PM	38.7
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	40.2

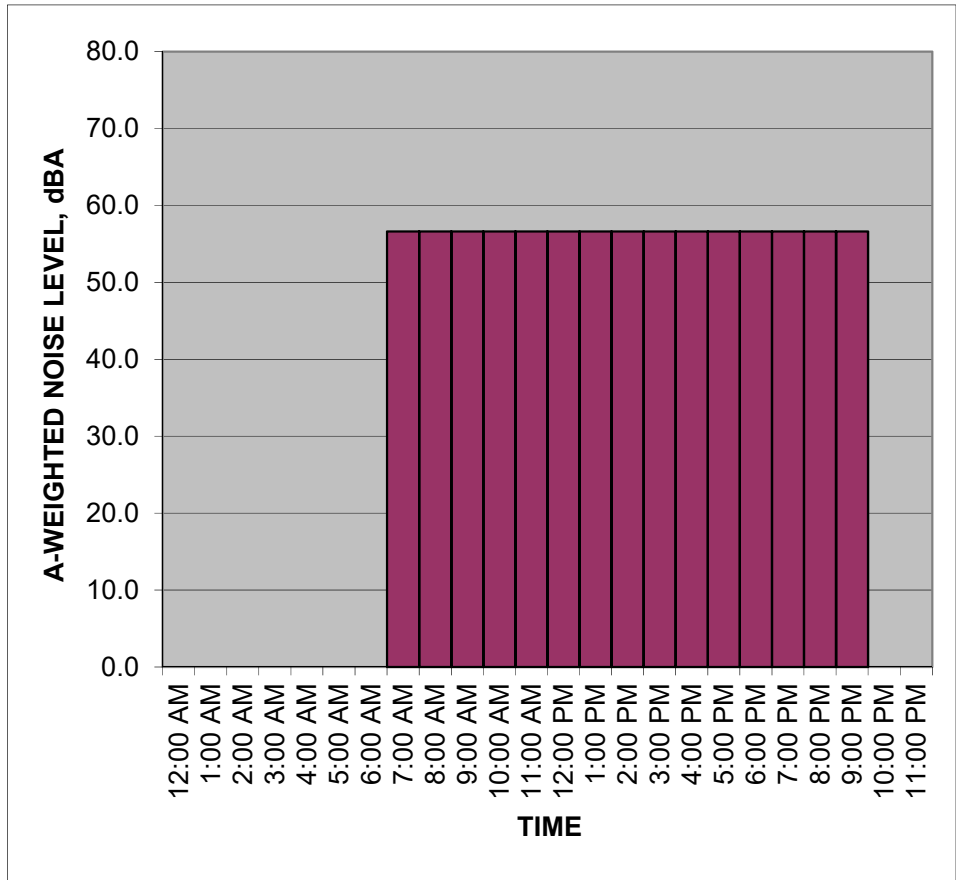


NOTES:

R2

Project: R2
 Location: R2
 Sources: 7th Street Terrace

TIME	HNL, dB(A)
12:00 AM	76.4
1:00 AM	76.4
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	76.4
8:00 AM	76.4
9:00 AM	76.4
10:00 AM	76.4
11:00 AM	76.4
12:00 PM	76.4
1:00 PM	76.4
2:00 PM	76.4
3:00 PM	76.4
4:00 PM	76.4
5:00 PM	76.4
6:00 PM	76.4
7:00 PM	76.4
8:00 PM	76.4
9:00 PM	76.4
10:00 PM	76.4
11:00 PM	76.4
CNEL, dB(A):	81.5

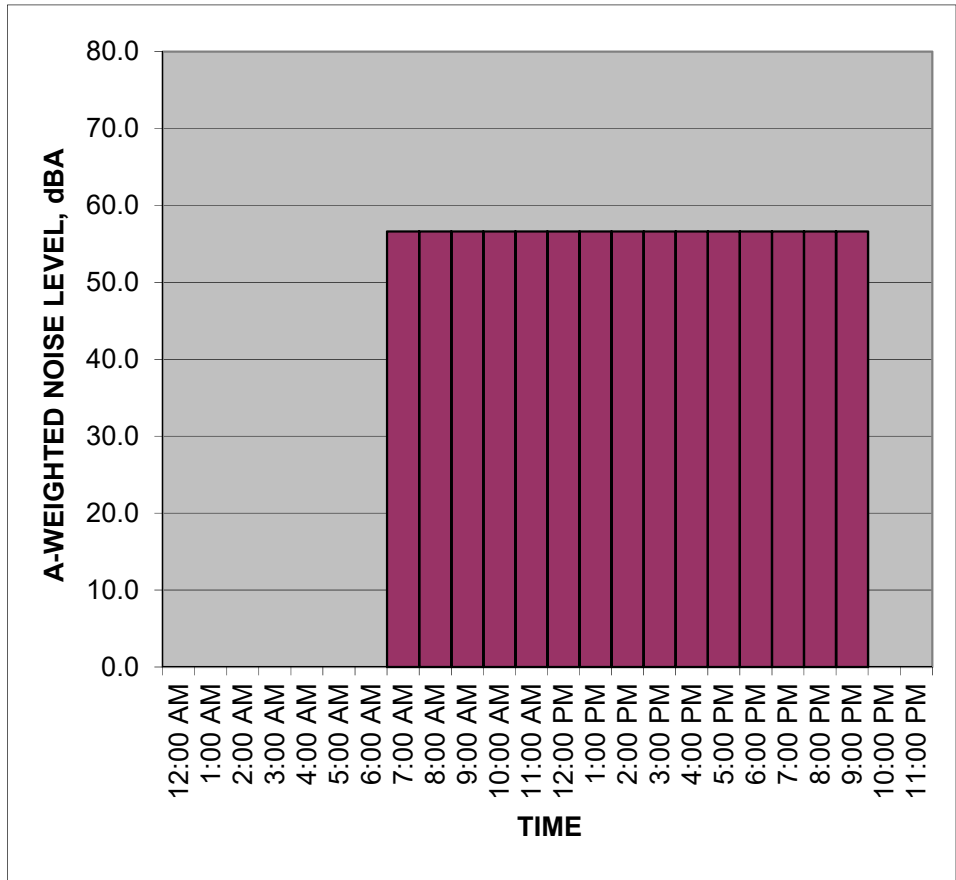


NOTES:

R2

Project: R2
 Location: R2
 Sources: Deck

TIME	HNL, dB(A)
12:00 AM	74.0
1:00 AM	74.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	74.0
8:00 AM	74.0
9:00 AM	74.0
10:00 AM	74.0
11:00 AM	74.0
12:00 PM	74.0
1:00 PM	74.0
2:00 PM	74.0
3:00 PM	74.0
4:00 PM	74.0
5:00 PM	74.0
6:00 PM	74.0
7:00 PM	74.0
8:00 PM	74.0
9:00 PM	74.0
10:00 PM	74.0
11:00 PM	74.0
CNEL, dB(A):	79.1

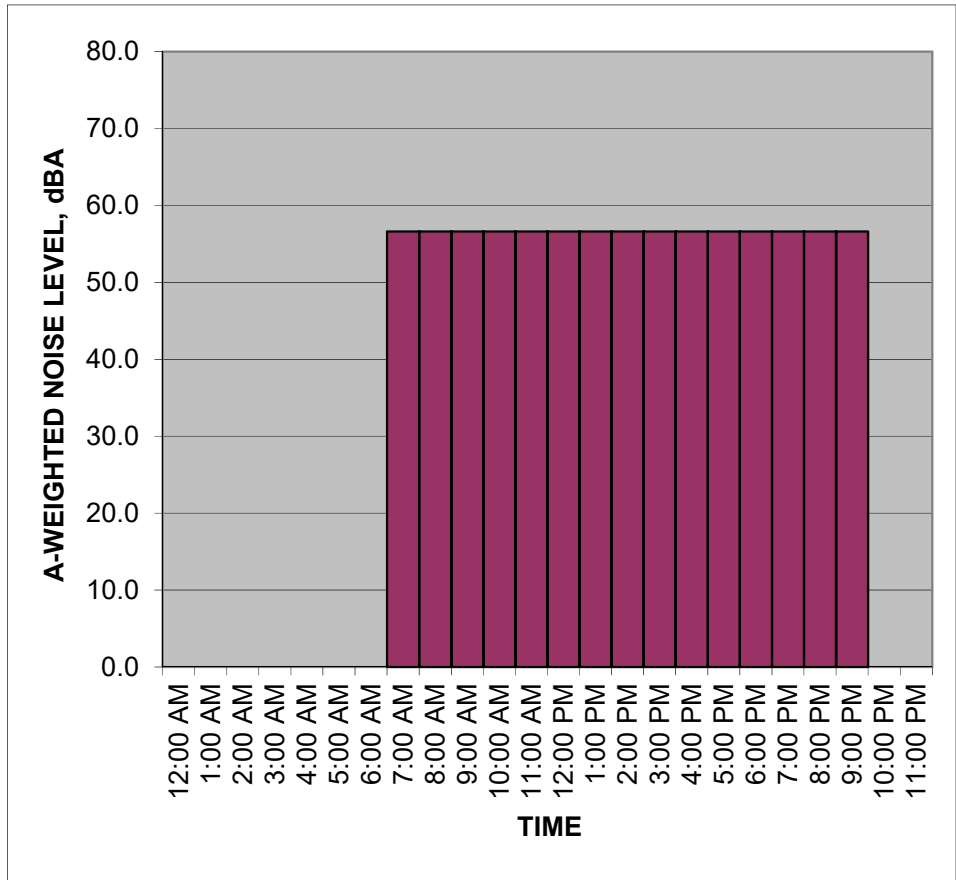


NOTES:

R2

Project: R2
 Location: R2
 Sources: Public Plaza Flex Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	72.0
8:00 AM	72.0
9:00 AM	72.0
10:00 AM	72.0
11:00 AM	72.0
12:00 PM	72.0
1:00 PM	72.0
2:00 PM	72.0
3:00 PM	72.0
4:00 PM	72.0
5:00 PM	72.0
6:00 PM	72.0
7:00 PM	72.0
8:00 PM	72.0
9:00 PM	72.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	73.5

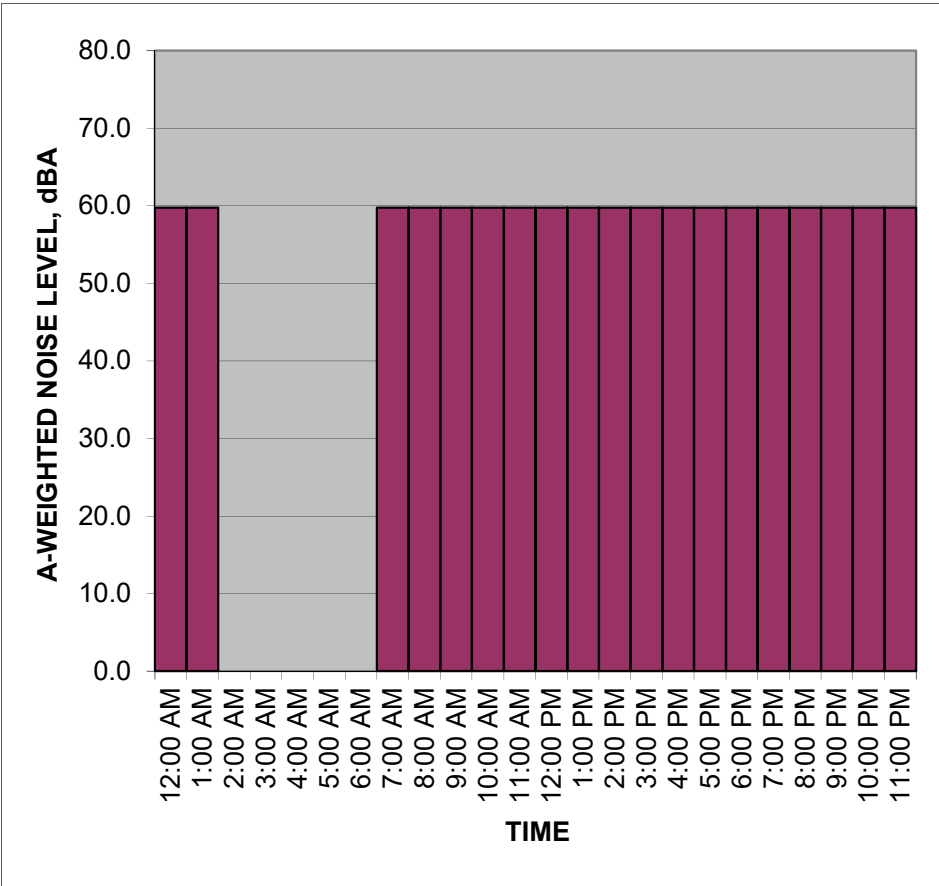


NOTES:

CNEL Calculation

Project: R2
 Location: R2
 Sources: Hotel Pool/Bar

TIME	HNL, dB(A)
12:00 AM	59.7
1:00 AM	59.7
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	59.7
8:00 AM	59.7
9:00 AM	59.7
10:00 AM	59.7
11:00 AM	59.7
12:00 PM	59.7
1:00 PM	59.7
2:00 PM	59.7
3:00 PM	59.7
4:00 PM	59.7
5:00 PM	59.7
6:00 PM	59.7
7:00 PM	59.7
8:00 PM	59.7
9:00 PM	59.7
10:00 PM	59.7
11:00 PM	59.7
CNEL, dB(A):	64.8

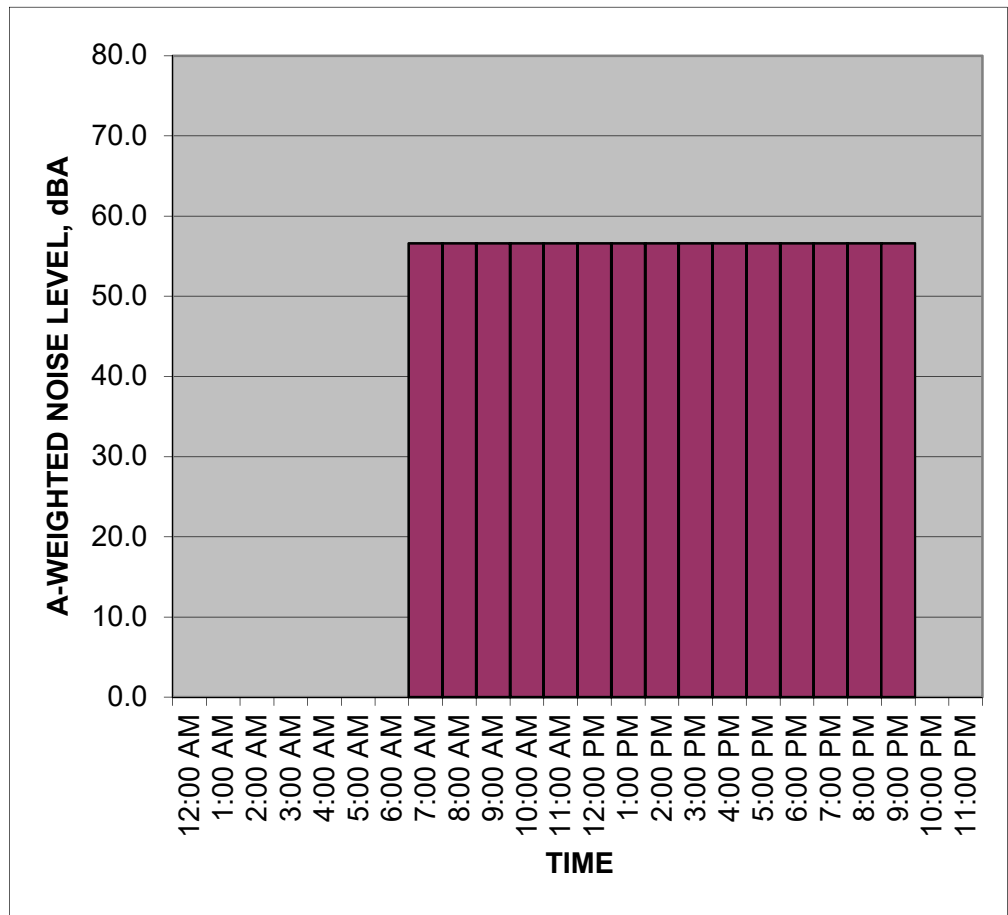


NOTES:

R2

Project: R2
 Location: R2
 Sources: Mesquit Paseo

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	56.6
8:00 AM	56.6
9:00 AM	56.6
10:00 AM	56.6
11:00 AM	56.6
12:00 PM	56.6
1:00 PM	56.6
2:00 PM	56.6
3:00 PM	56.6
4:00 PM	56.6
5:00 PM	56.6
6:00 PM	56.6
7:00 PM	56.6
8:00 PM	56.6
9:00 PM	56.6
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	58.2

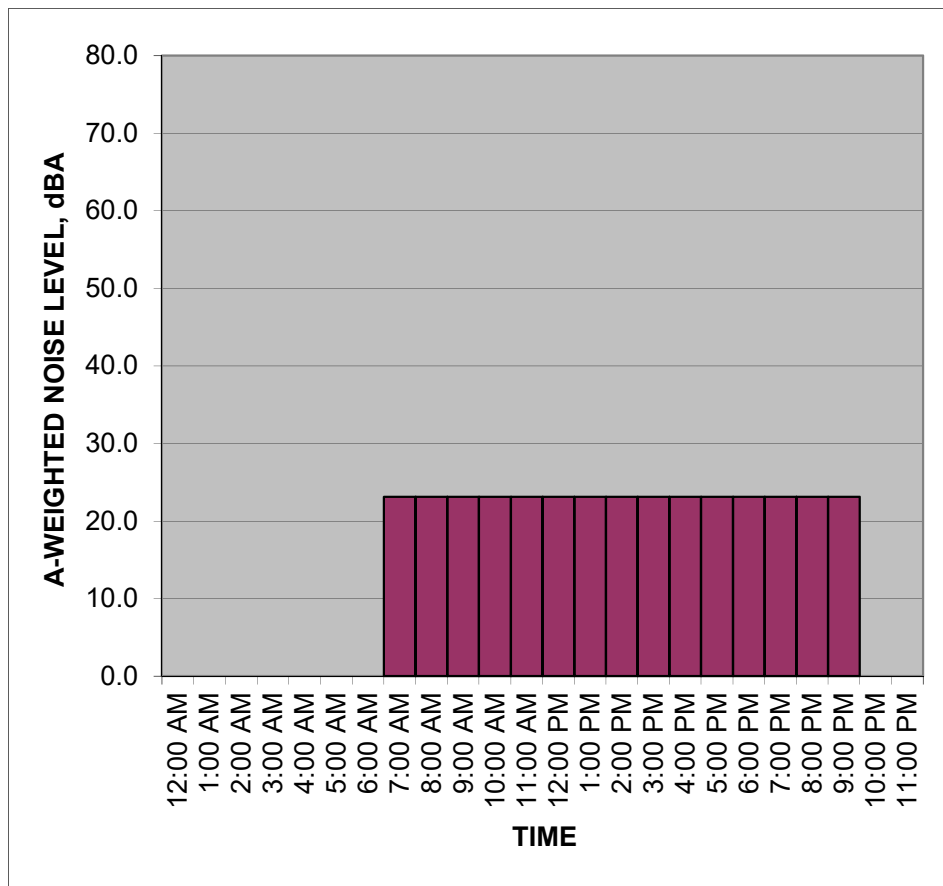


NOTES:

CNEL Calculation

Project: R2
 Location: R2
 Sources: Northern Landscaped Area

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	23.1
8:00 AM	23.1
9:00 AM	23.1
10:00 AM	23.1
11:00 AM	23.1
12:00 PM	23.1
1:00 PM	23.1
2:00 PM	23.1
3:00 PM	23.1
4:00 PM	23.1
5:00 PM	23.1
6:00 PM	23.1
7:00 PM	23.1
8:00 PM	23.1
9:00 PM	23.1
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	24.7

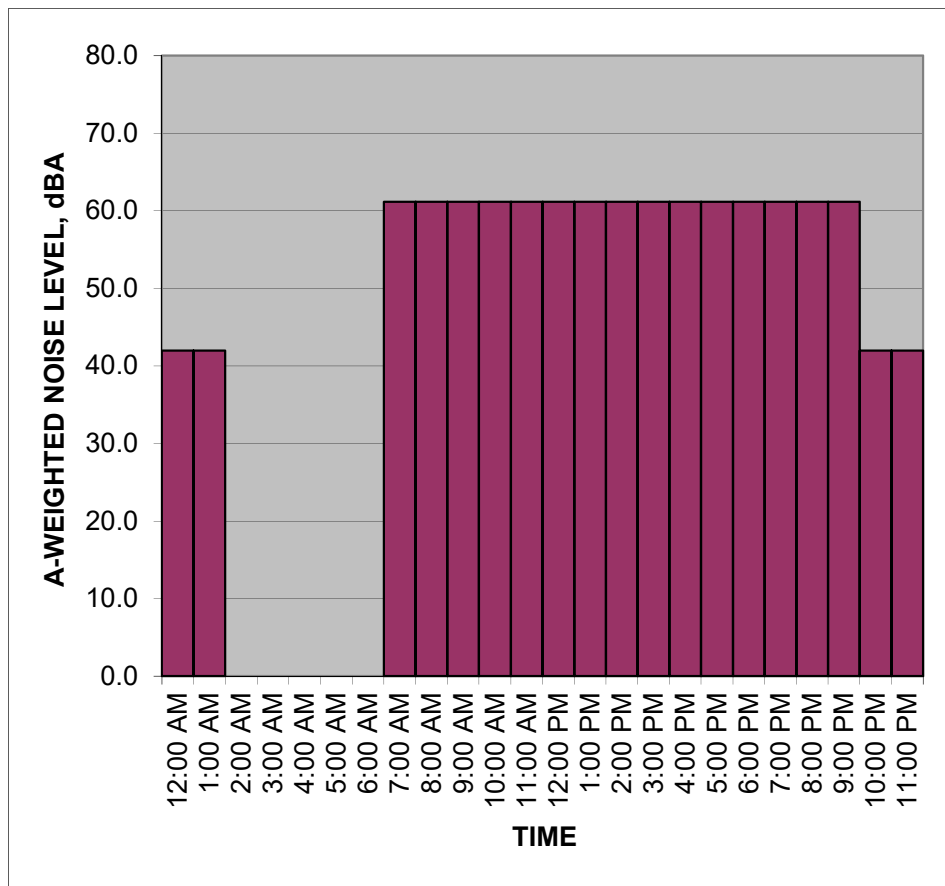


NOTES:

CNEL Calculation

Project: R2
 Location: R2
 Sources: Residential Pool

TIME	HNL, dB(A)
12:00 AM	42.0
1:00 AM	42.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	61.1
8:00 AM	61.1
9:00 AM	61.1
10:00 AM	61.1
11:00 AM	61.1
12:00 PM	61.1
1:00 PM	61.1
2:00 PM	61.1
3:00 PM	61.1
4:00 PM	61.1
5:00 PM	61.1
6:00 PM	61.1
7:00 PM	61.1
8:00 PM	61.1
9:00 PM	61.1
10:00 PM	42.0
11:00 PM	42.0
CNEL, dB(A):	61.8

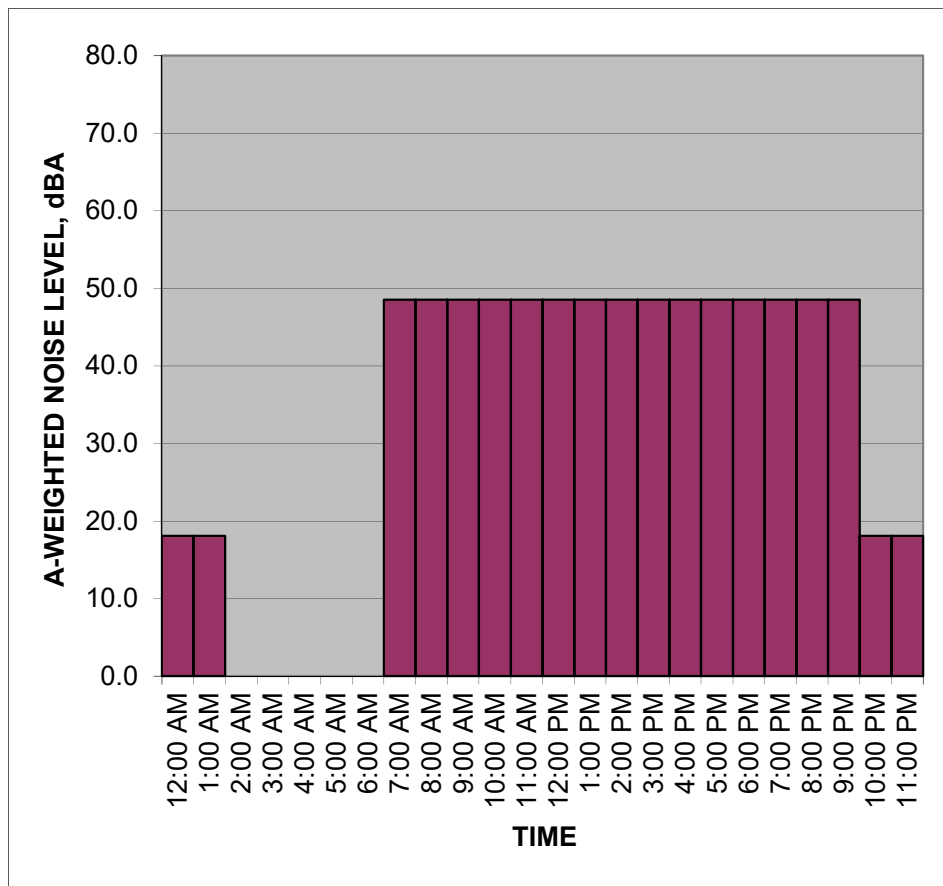


NOTES:

CNEL Calculation

Project: R2
 Location: R2
 Sources: River Balcony N

TIME	HNL, dB(A)
12:00 AM	18.1
1:00 AM	18.1
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	48.5
8:00 AM	48.5
9:00 AM	48.5
10:00 AM	48.5
11:00 AM	48.5
12:00 PM	48.5
1:00 PM	48.5
2:00 PM	48.5
3:00 PM	48.5
4:00 PM	48.5
5:00 PM	48.5
6:00 PM	48.5
7:00 PM	48.5
8:00 PM	48.5
9:00 PM	48.5
10:00 PM	18.1
11:00 PM	18.1
CNEL, dB(A):	49.1

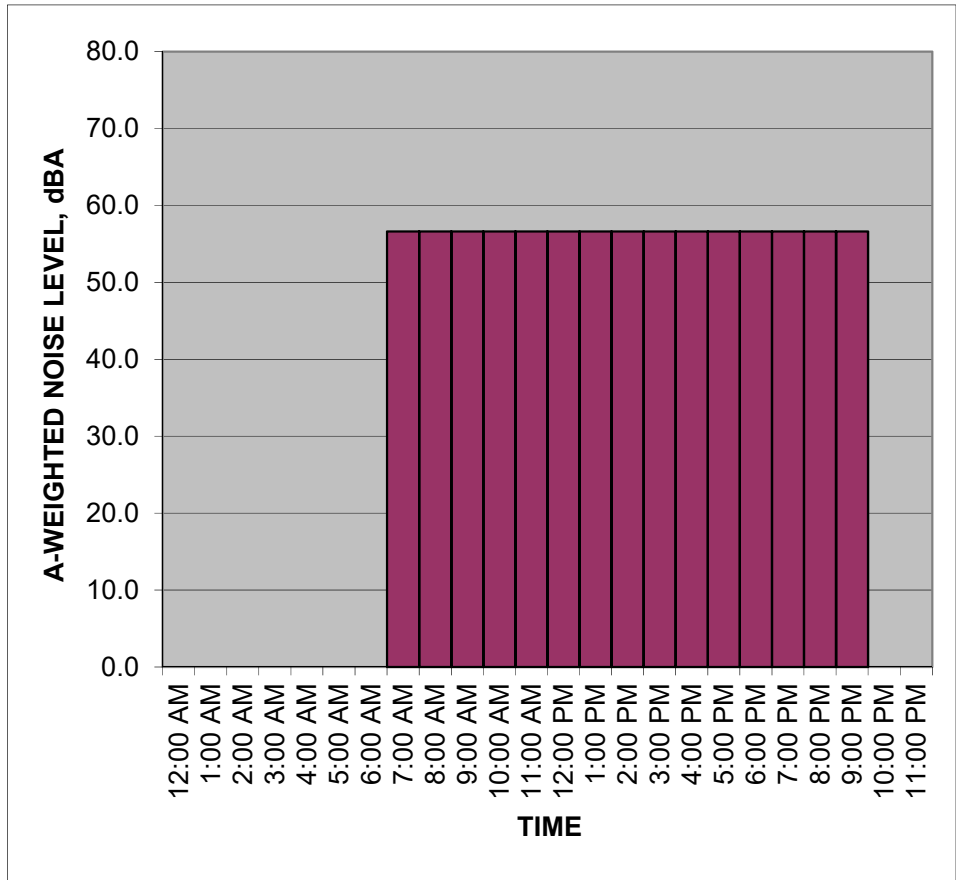


NOTES:

R2

Project: R2
 Location: R2
 Sources: River Balcony South

TIME	HNL, dB(A)
12:00 AM	27.9
1:00 AM	27.9
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	64.8
8:00 AM	64.8
9:00 AM	64.8
10:00 AM	64.8
11:00 AM	64.8
12:00 PM	64.8
1:00 PM	64.8
2:00 PM	64.8
3:00 PM	64.8
4:00 PM	64.8
5:00 PM	64.8
6:00 PM	64.8
7:00 PM	64.8
8:00 PM	64.8
9:00 PM	64.8
10:00 PM	27.9
11:00 PM	27.9
CNEL, dB(A):	65.3

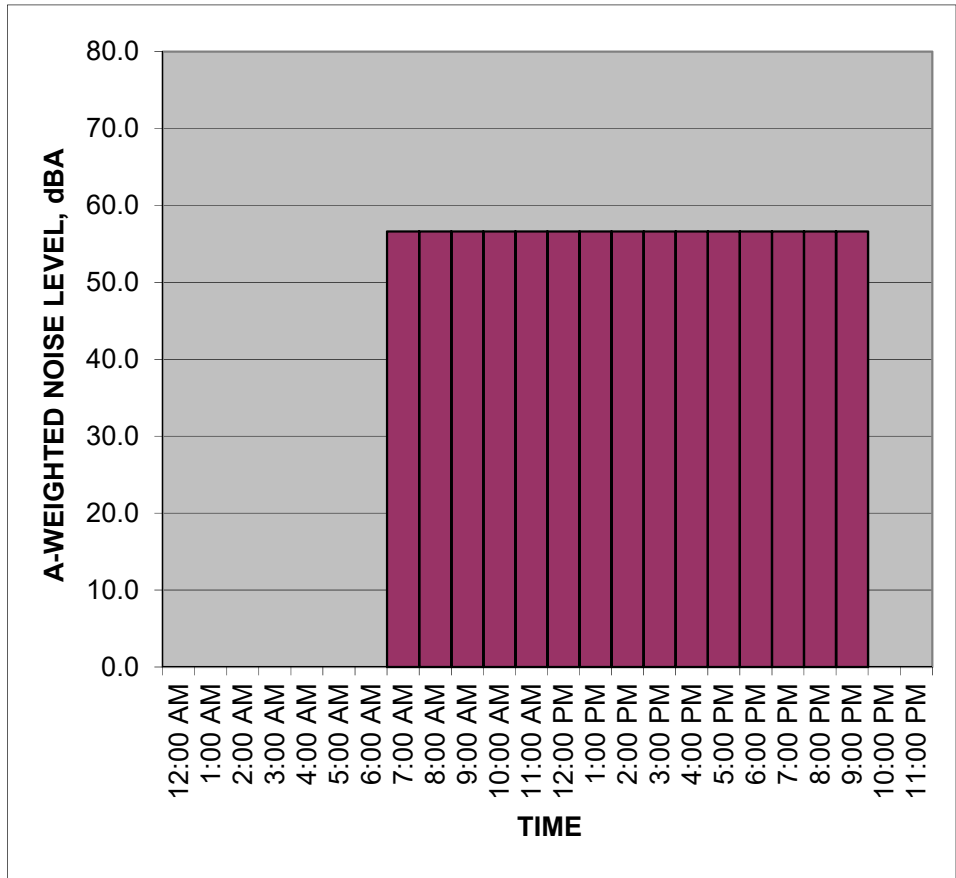


NOTES:

R2

Project: R2
 Location: R2
 Sources: Sculpture Garden

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	65.1
8:00 AM	65.1
9:00 AM	65.1
10:00 AM	65.1
11:00 AM	65.1
12:00 PM	65.1
1:00 PM	65.1
2:00 PM	65.1
3:00 PM	65.1
4:00 PM	65.1
5:00 PM	65.1
6:00 PM	65.1
7:00 PM	65.1
8:00 PM	65.1
9:00 PM	65.1
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	66.7

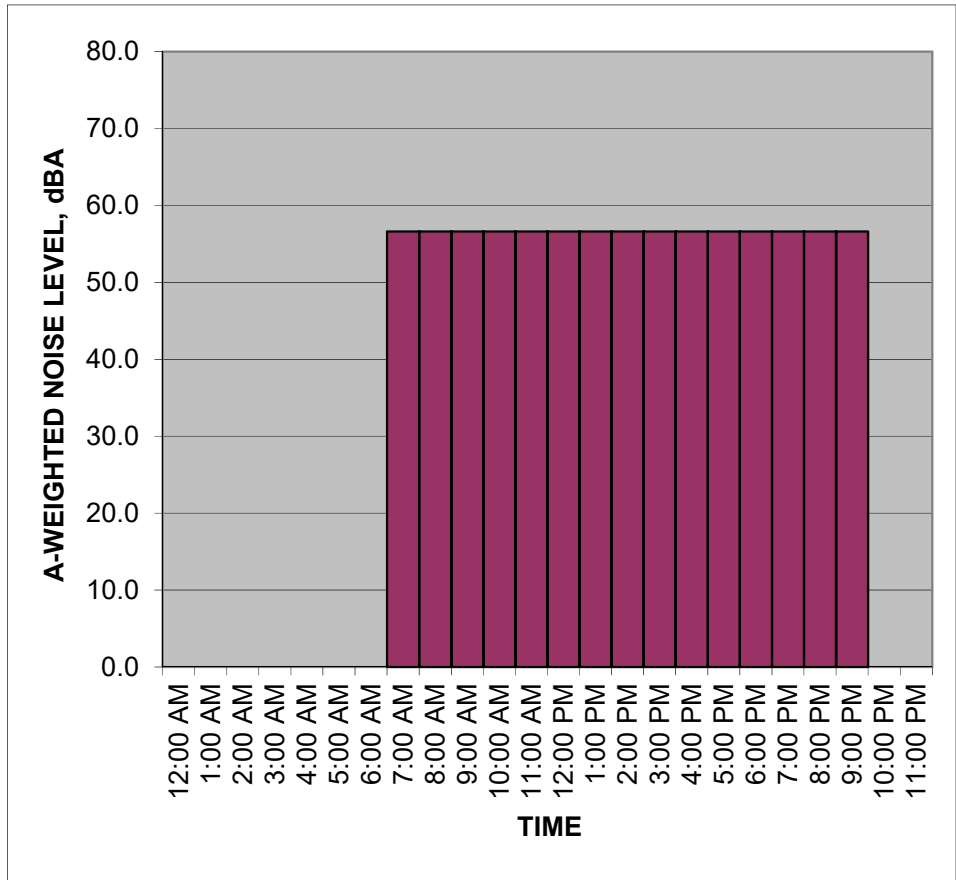


NOTES:

R2

Project: R2
 Location: R2
 Sources: Work Breakout Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	36.4
8:00 AM	36.4
9:00 AM	36.4
10:00 AM	36.4
11:00 AM	36.4
12:00 PM	36.4
1:00 PM	36.4
2:00 PM	36.4
3:00 PM	36.4
4:00 PM	36.4
5:00 PM	36.4
6:00 PM	36.4
7:00 PM	36.4
8:00 PM	36.4
9:00 PM	36.4
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	38.0

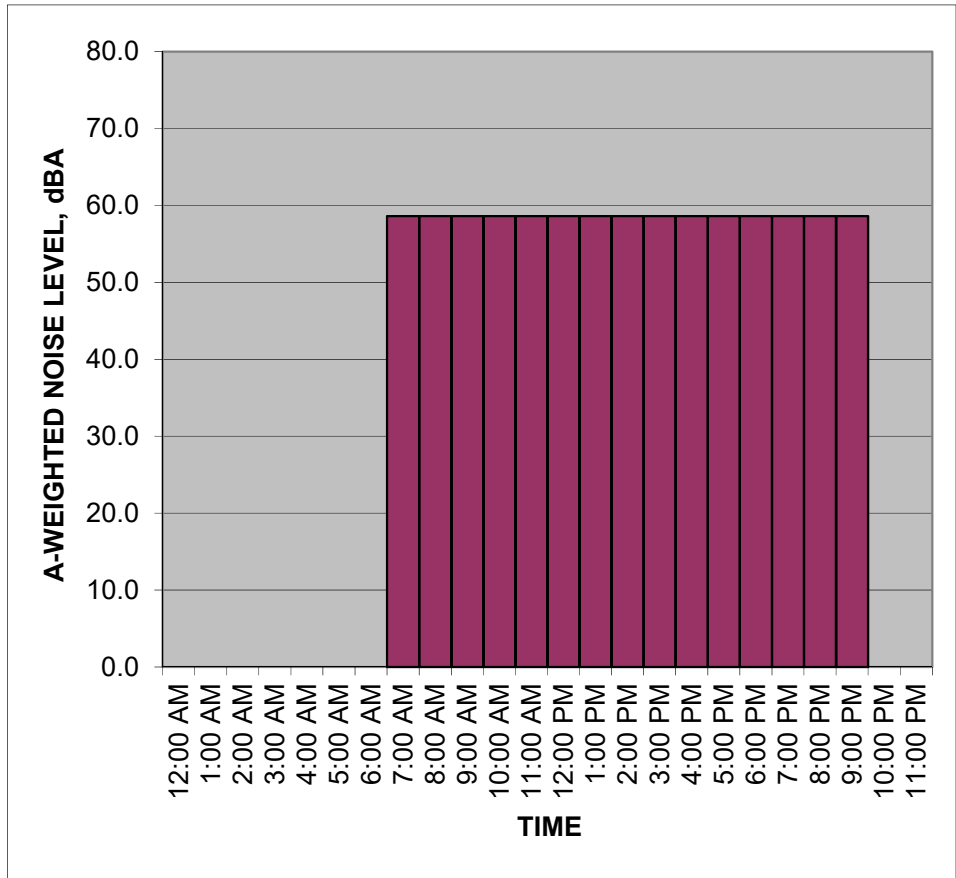


NOTES:

R3

Project: R3
 Location: R3
 Sources: 7th Street Terrace

TIME	HNL, dB(A)
12:00 AM	56.0
1:00 AM	56.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	56.0
8:00 AM	56.0
9:00 AM	56.0
10:00 AM	56.0
11:00 AM	56.0
12:00 PM	56.0
1:00 PM	56.0
2:00 PM	56.0
3:00 PM	56.0
4:00 PM	56.0
5:00 PM	56.0
6:00 PM	56.0
7:00 PM	56.0
8:00 PM	56.0
9:00 PM	56.0
10:00 PM	56.0
11:00 PM	56.0
CNEL, dB(A):	61.1

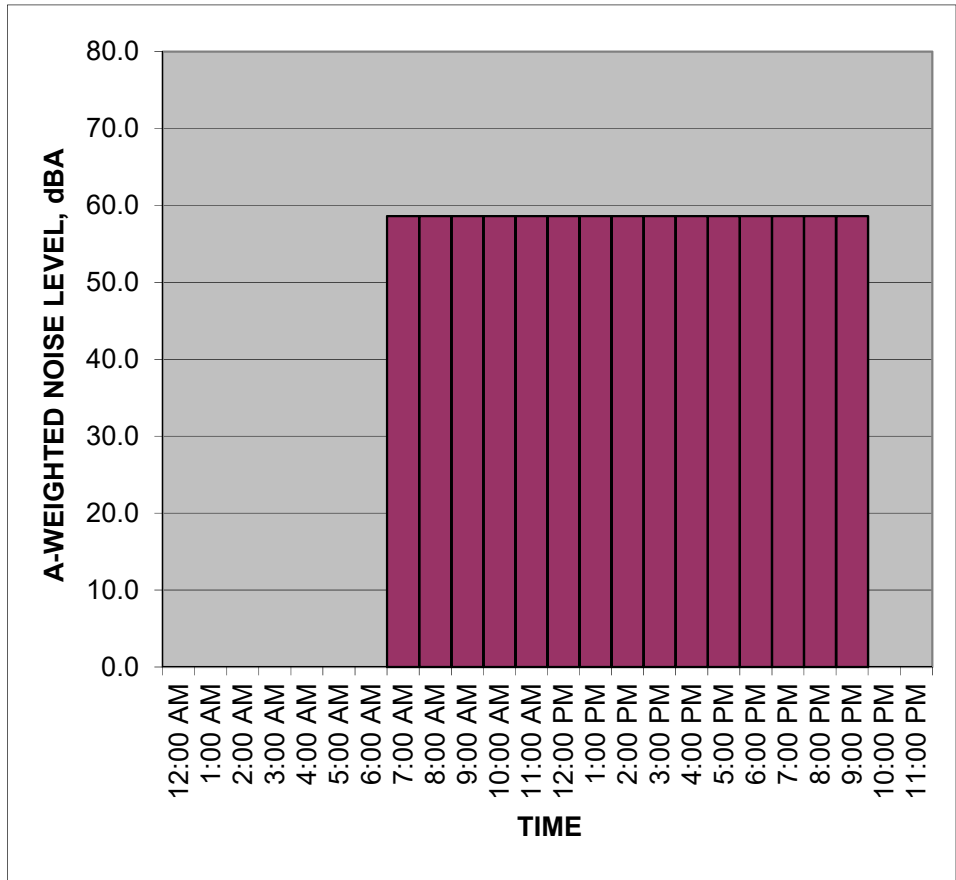


NOTES:

R3

Project: R3
 Location: R3
 Sources: Deck

TIME	HNL, dB(A)
12:00 AM	54.5
1:00 AM	54.5
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	54.5
8:00 AM	54.5
9:00 AM	54.5
10:00 AM	54.5
11:00 AM	54.5
12:00 PM	54.5
1:00 PM	54.5
2:00 PM	54.5
3:00 PM	54.5
4:00 PM	54.5
5:00 PM	54.5
6:00 PM	54.5
7:00 PM	54.5
8:00 PM	54.5
9:00 PM	54.5
10:00 PM	54.5
11:00 PM	54.5
CNEL, dB(A):	59.6

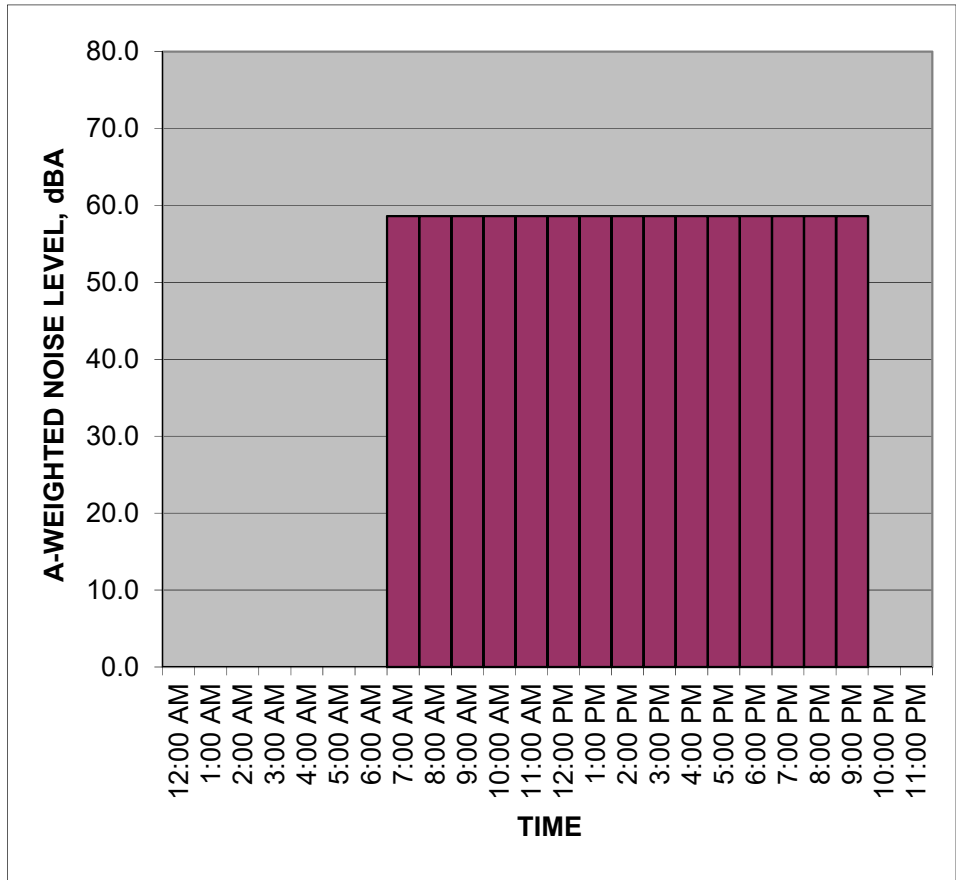


NOTES:

R3

Project: R3
 Location: R3
 Sources: Fitness Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	65.9
8:00 AM	65.9
9:00 AM	65.9
10:00 AM	65.9
11:00 AM	65.9
12:00 PM	65.9
1:00 PM	65.9
2:00 PM	65.9
3:00 PM	65.9
4:00 PM	65.9
5:00 PM	65.9
6:00 PM	65.9
7:00 PM	65.9
8:00 PM	65.9
9:00 PM	65.9
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	67.4

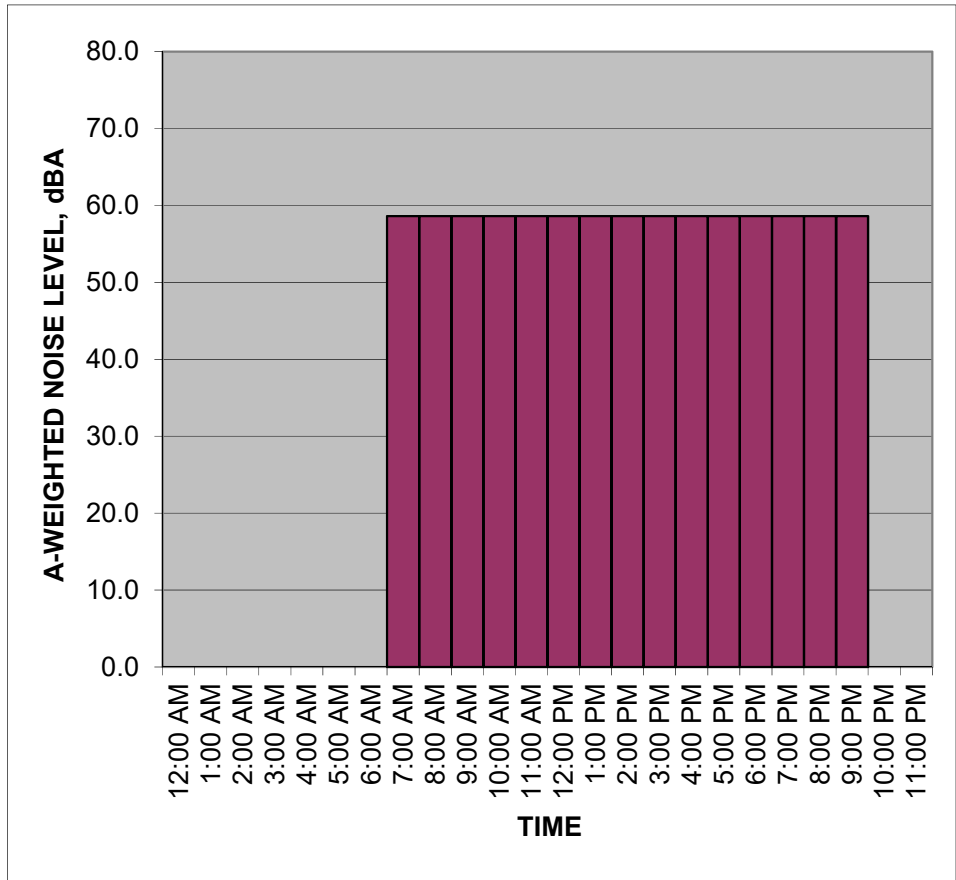


NOTES:

R3

Project: R3
 Location: R3
 Sources: Public Plaza Flex Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	66.0
8:00 AM	66.0
9:00 AM	66.0
10:00 AM	66.0
11:00 AM	66.0
12:00 PM	66.0
1:00 PM	66.0
2:00 PM	66.0
3:00 PM	66.0
4:00 PM	66.0
5:00 PM	66.0
6:00 PM	66.0
7:00 PM	66.0
8:00 PM	66.0
9:00 PM	66.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	67.6

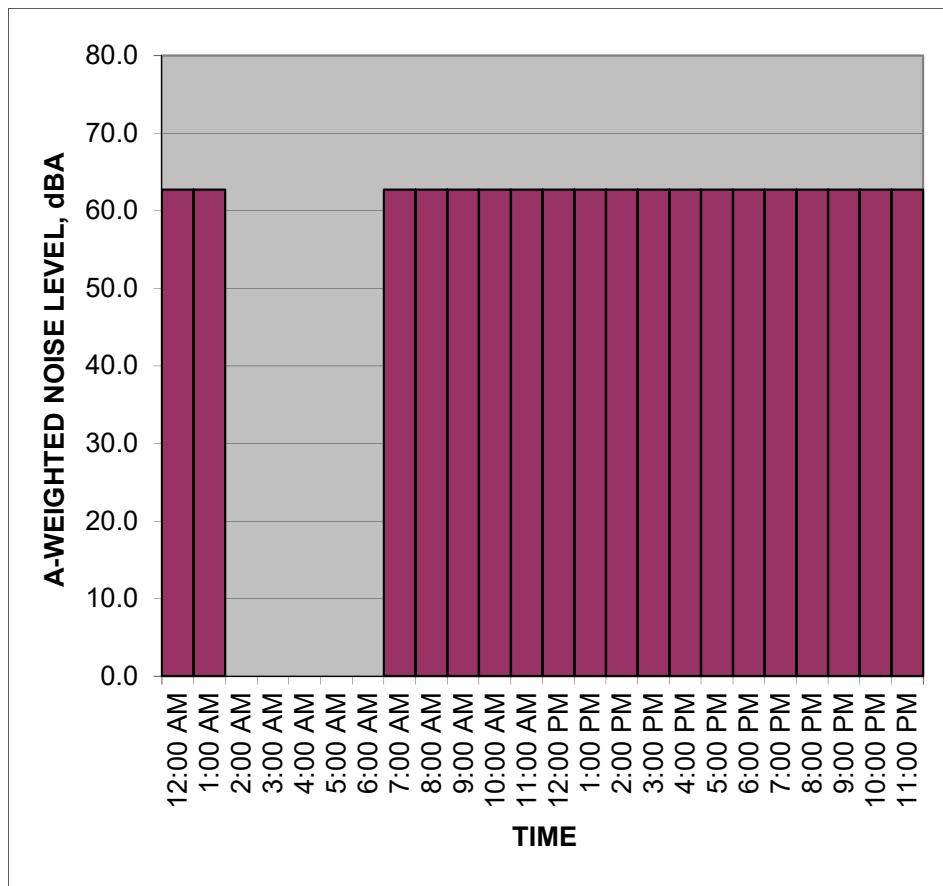


NOTES:

CNEL Calculation

Project: R3
 Location: R3
 Sources: Hotel Pool/Bar

TIME	HNL, dB(A)
12:00 AM	62.7
1:00 AM	62.7
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	62.7
8:00 AM	62.7
9:00 AM	62.7
10:00 AM	62.7
11:00 AM	62.7
12:00 PM	62.7
1:00 PM	62.7
2:00 PM	62.7
3:00 PM	62.7
4:00 PM	62.7
5:00 PM	62.7
6:00 PM	62.7
7:00 PM	62.7
8:00 PM	62.7
9:00 PM	62.7
10:00 PM	62.7
11:00 PM	62.7
CNEL, dB(A):	67.8

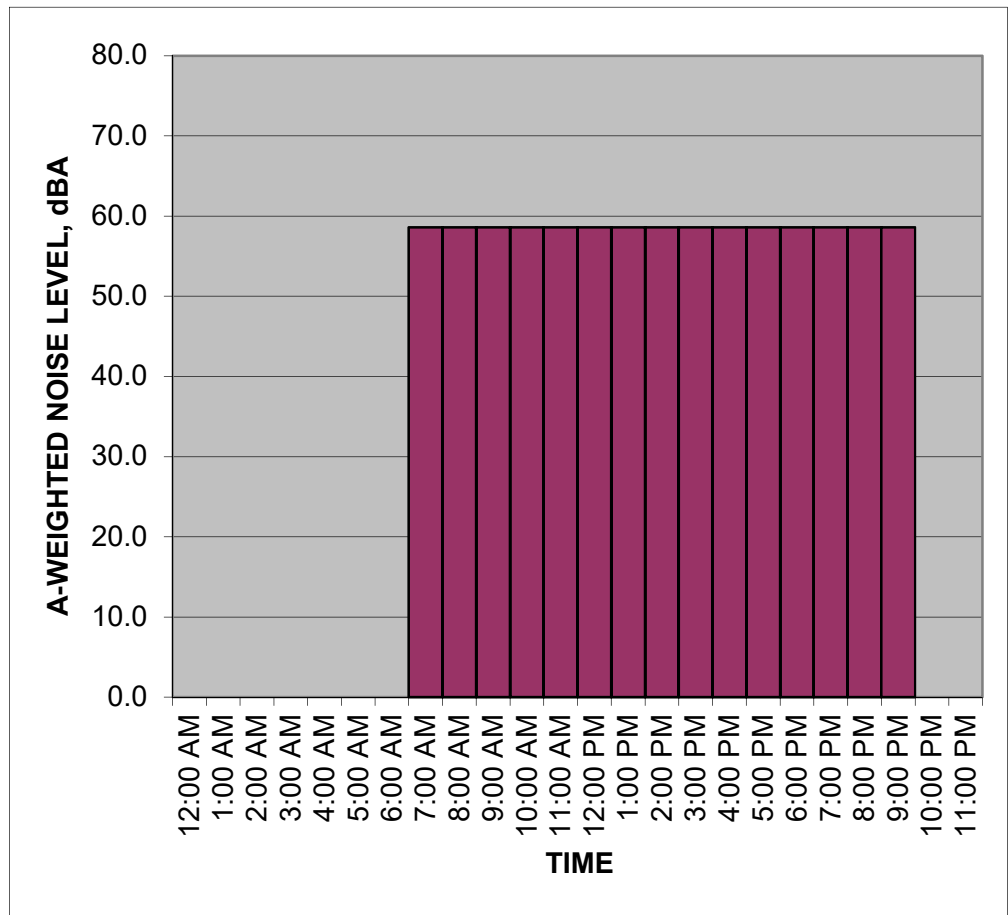


NOTES:

R3

Project: R3
 Location: R3
 Sources: Mesquit Paseo

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	58.6
8:00 AM	58.6
9:00 AM	58.6
10:00 AM	58.6
11:00 AM	58.6
12:00 PM	58.6
1:00 PM	58.6
2:00 PM	58.6
3:00 PM	58.6
4:00 PM	58.6
5:00 PM	58.6
6:00 PM	58.6
7:00 PM	58.6
8:00 PM	58.6
9:00 PM	58.6
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	60.2

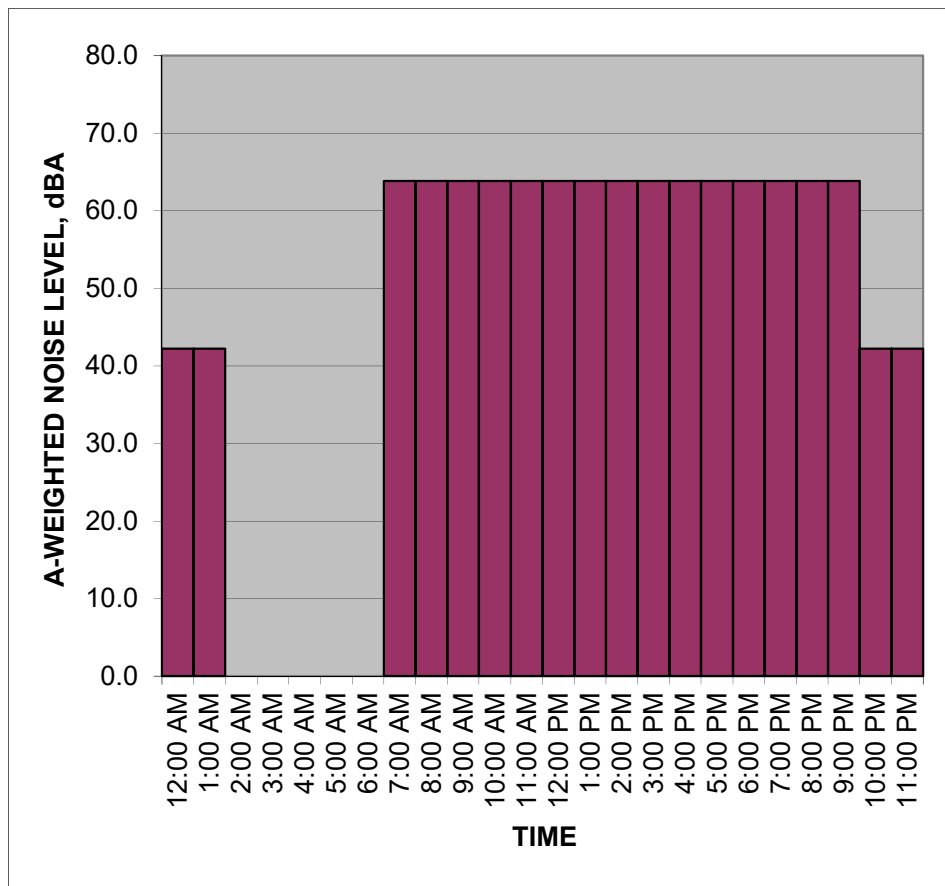


NOTES:

CNEL Calculation

Project: R3
 Location: R3
 Sources: Residential Pool

TIME	HNL, dB(A)
12:00 AM	42.2
1:00 AM	42.2
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	63.8
8:00 AM	63.8
9:00 AM	63.8
10:00 AM	63.8
11:00 AM	63.8
12:00 PM	63.8
1:00 PM	63.8
2:00 PM	63.8
3:00 PM	63.8
4:00 PM	63.8
5:00 PM	63.8
6:00 PM	63.8
7:00 PM	63.8
8:00 PM	63.8
9:00 PM	63.8
10:00 PM	42.2
11:00 PM	42.2
CNEL, dB(A):	64.4

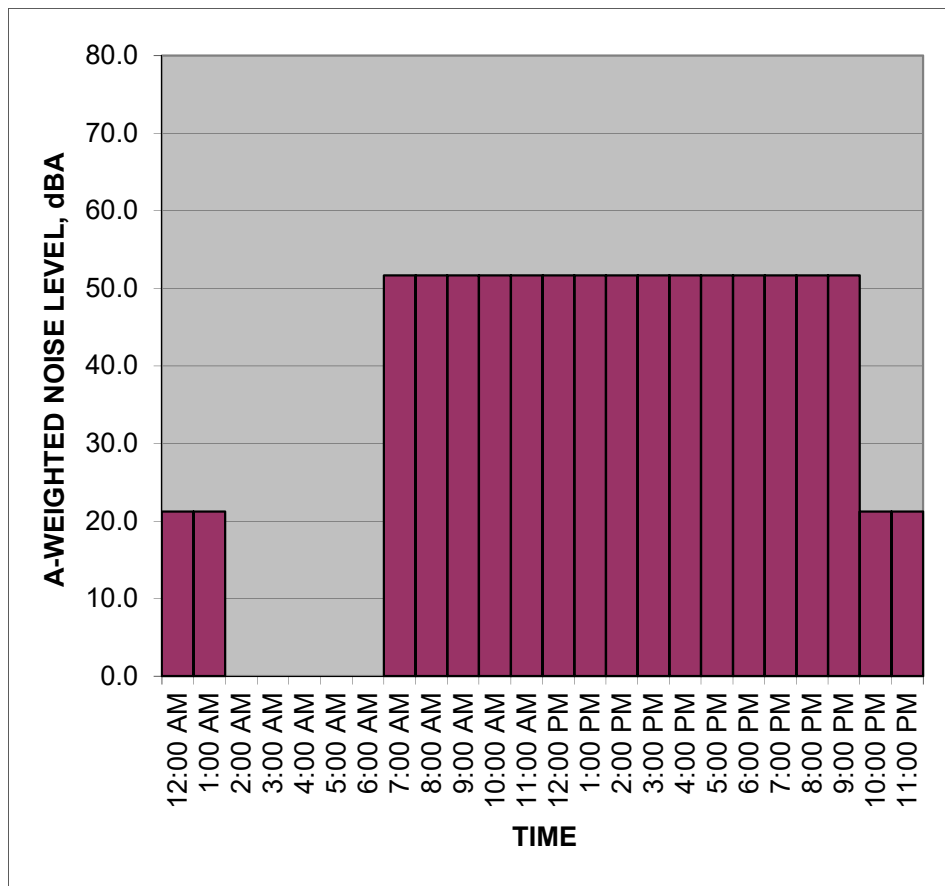


NOTES:

CNEL Calculation

Project: R3
 Location: R3
 Sources: River Balcony N

TIME	HNL, dB(A)
12:00 AM	21.2
1:00 AM	21.2
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	51.7
8:00 AM	51.7
9:00 AM	51.7
10:00 AM	51.7
11:00 AM	51.7
12:00 PM	51.7
1:00 PM	51.7
2:00 PM	51.7
3:00 PM	51.7
4:00 PM	51.7
5:00 PM	51.7
6:00 PM	51.7
7:00 PM	51.7
8:00 PM	51.7
9:00 PM	51.7
10:00 PM	21.2
11:00 PM	21.2
CNEL, dB(A):	52.2

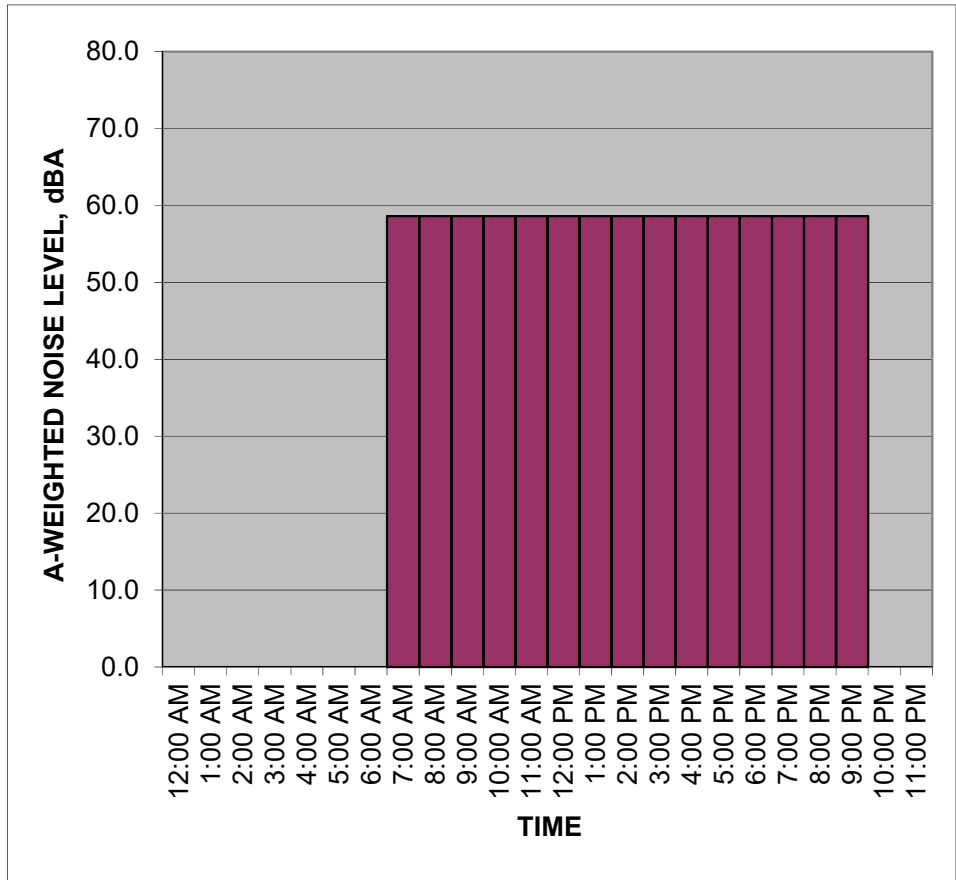


NOTES:

R3

Project: R3
 Location: R3
 Sources: River Balcony South

TIME	HNL, dB(A)
12:00 AM	18.6
1:00 AM	18.6
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	54.0
8:00 AM	54.0
9:00 AM	54.0
10:00 AM	54.0
11:00 AM	54.0
12:00 PM	54.0
1:00 PM	54.0
2:00 PM	54.0
3:00 PM	54.0
4:00 PM	54.0
5:00 PM	54.0
6:00 PM	54.0
7:00 PM	54.0
8:00 PM	54.0
9:00 PM	54.0
10:00 PM	18.6
11:00 PM	18.6
CNEL, dB(A):	54.5

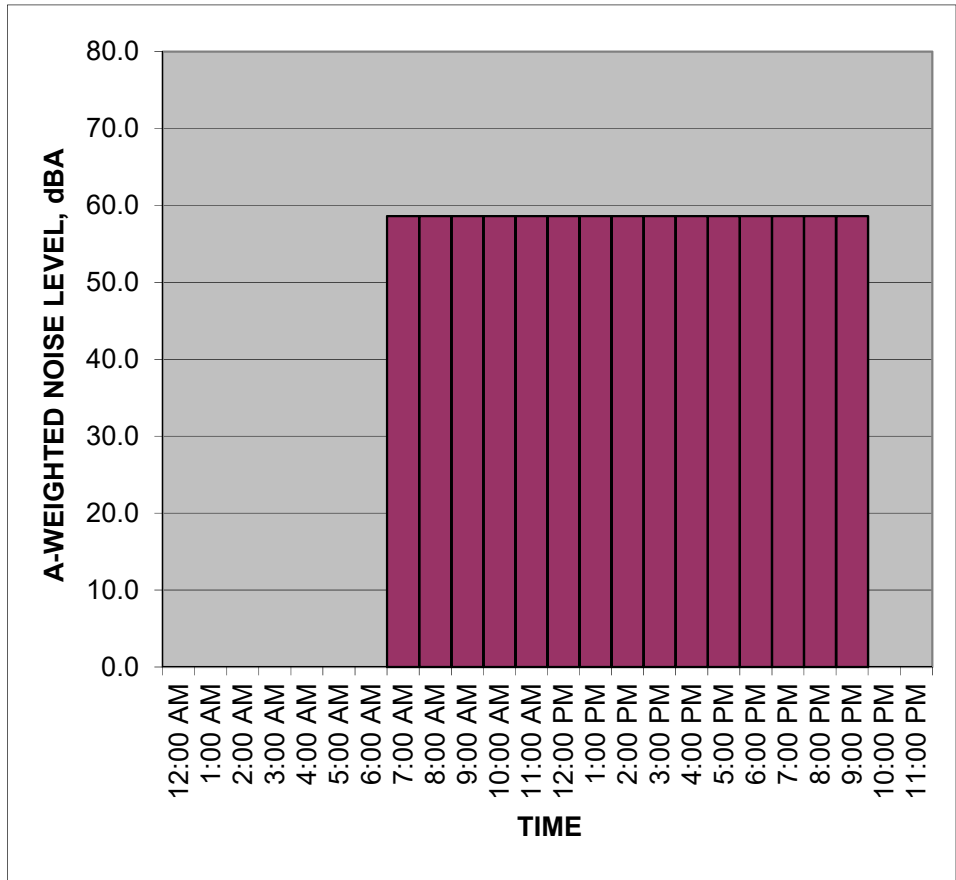


NOTES:

R3

Project: R3
 Location: R3
 Sources: Sculpture Garden

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	65.3
8:00 AM	65.3
9:00 AM	65.3
10:00 AM	65.3
11:00 AM	65.3
12:00 PM	65.3
1:00 PM	65.3
2:00 PM	65.3
3:00 PM	65.3
4:00 PM	65.3
5:00 PM	65.3
6:00 PM	65.3
7:00 PM	65.3
8:00 PM	65.3
9:00 PM	65.3
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	66.8

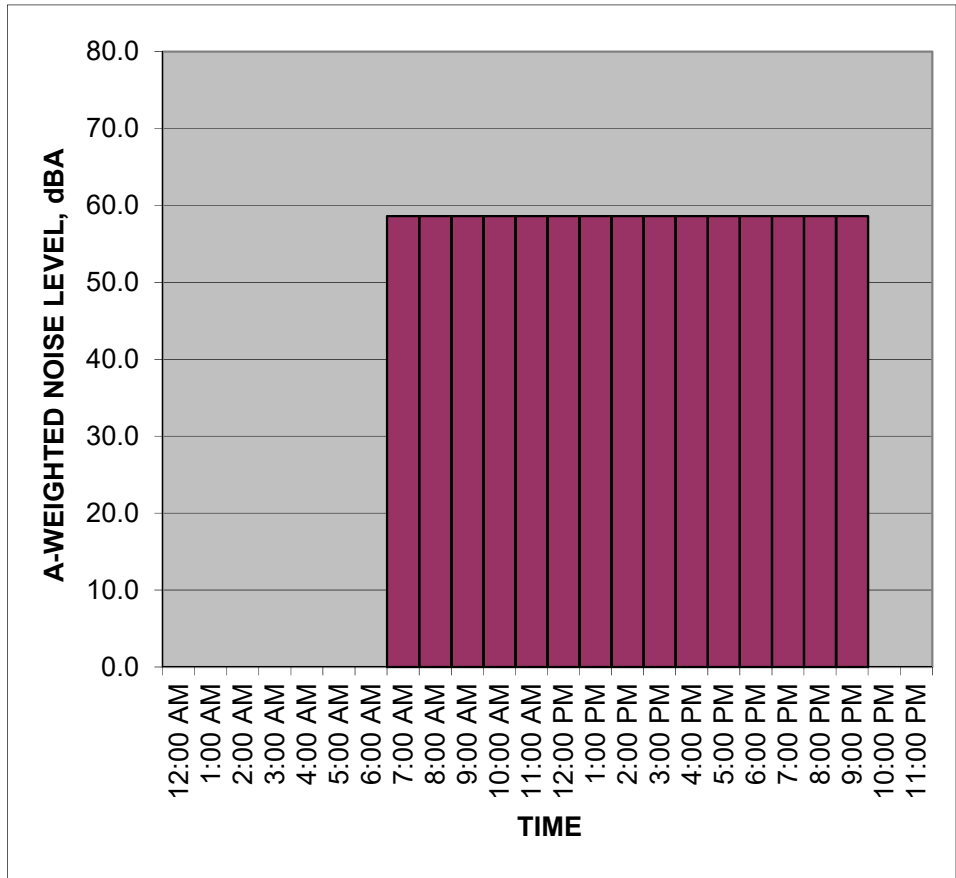


NOTES:

R3

Project: R3
 Location: R3
 Sources: Work Breakout Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	38.1
8:00 AM	38.1
9:00 AM	38.1
10:00 AM	38.1
11:00 AM	38.1
12:00 PM	38.1
1:00 PM	38.1
2:00 PM	38.1
3:00 PM	38.1
4:00 PM	38.1
5:00 PM	38.1
6:00 PM	38.1
7:00 PM	38.1
8:00 PM	38.1
9:00 PM	38.1
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	39.6

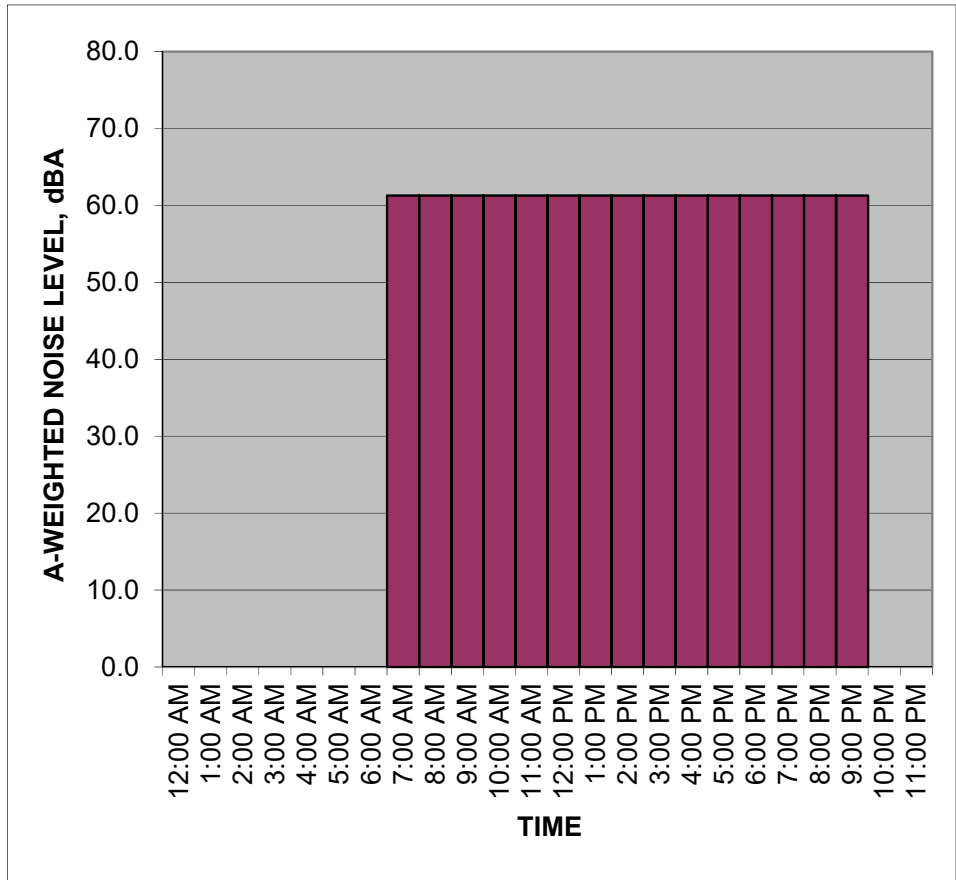


NOTES:

R4

Project: R4
 Location: R4
 Sources: 7th Street Terrace

TIME	HNL, dB(A)
12:00 AM	46.1
1:00 AM	46.1
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	46.1
8:00 AM	46.1
9:00 AM	46.1
10:00 AM	46.1
11:00 AM	46.1
12:00 PM	46.1
1:00 PM	46.1
2:00 PM	46.1
3:00 PM	46.1
4:00 PM	46.1
5:00 PM	46.1
6:00 PM	46.1
7:00 PM	46.1
8:00 PM	46.1
9:00 PM	46.1
10:00 PM	46.1
11:00 PM	46.1
CNEL, dB(A):	51.2

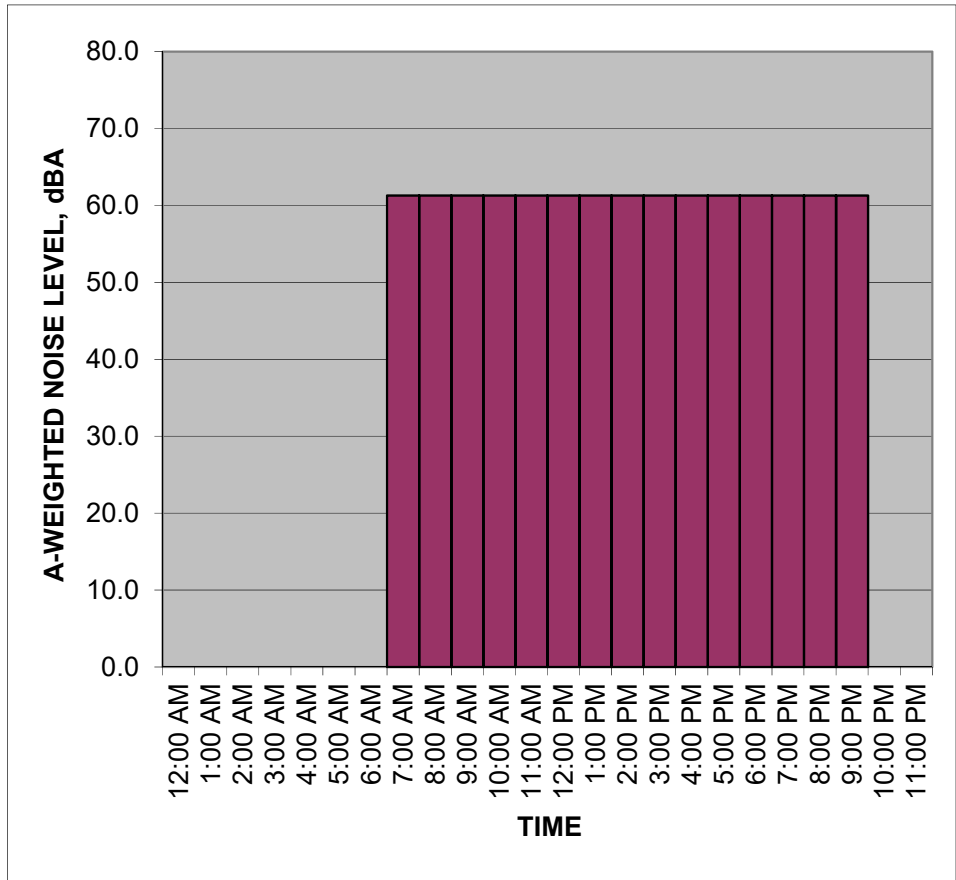


NOTES:

R4

Project: R4
 Location: R4
 Sources: Deck

TIME	HNL, dB(A)
12:00 AM	55.3
1:00 AM	55.3
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	55.3
8:00 AM	55.3
9:00 AM	55.3
10:00 AM	55.3
11:00 AM	55.3
12:00 PM	55.3
1:00 PM	55.3
2:00 PM	55.3
3:00 PM	55.3
4:00 PM	55.3
5:00 PM	55.3
6:00 PM	55.3
7:00 PM	55.3
8:00 PM	55.3
9:00 PM	55.3
10:00 PM	55.3
11:00 PM	55.3
CNEL, dB(A):	60.4

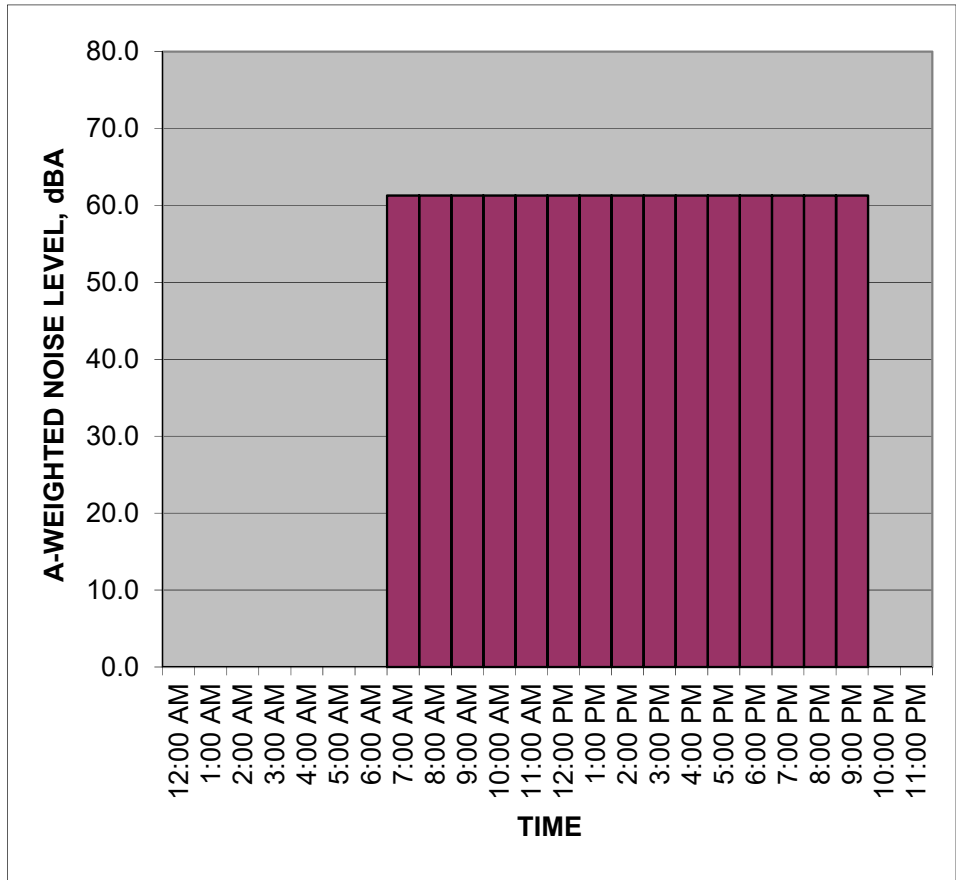


NOTES:

R4

Project: R4
 Location: R4
 Sources: Fitness Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	47.9
8:00 AM	47.9
9:00 AM	47.9
10:00 AM	47.9
11:00 AM	47.9
12:00 PM	47.9
1:00 PM	47.9
2:00 PM	47.9
3:00 PM	47.9
4:00 PM	47.9
5:00 PM	47.9
6:00 PM	47.9
7:00 PM	47.9
8:00 PM	47.9
9:00 PM	47.9
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	49.4

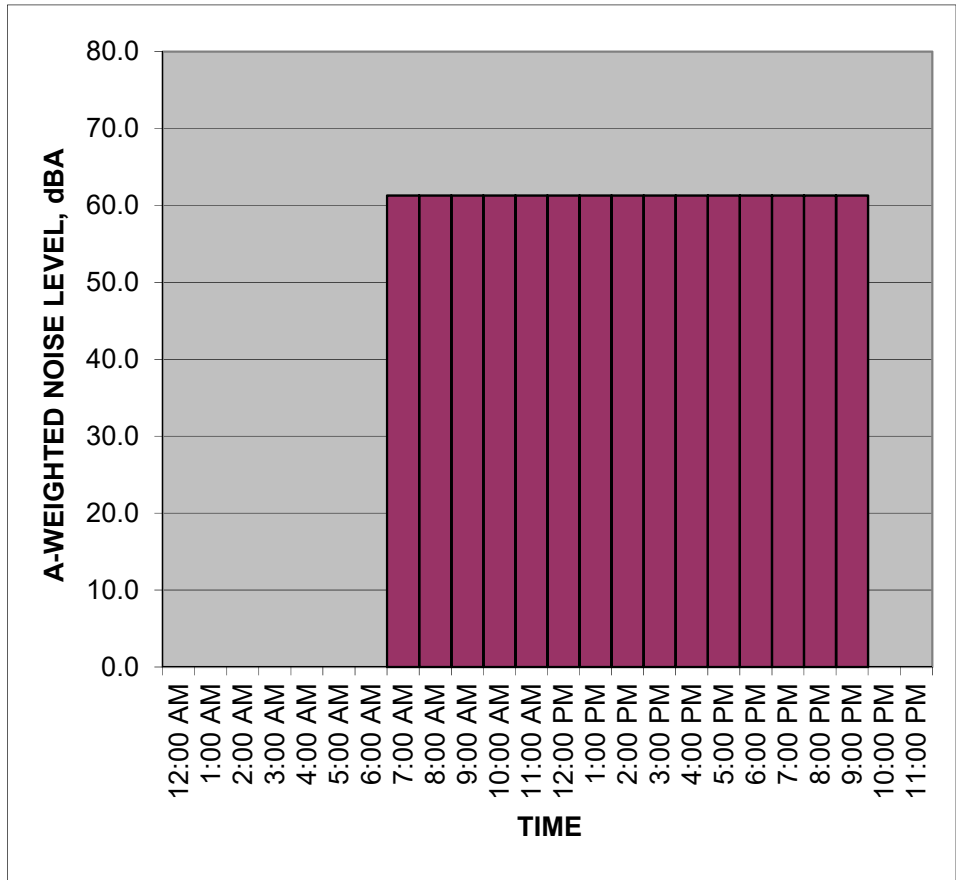


NOTES:

R4

Project: R4
 Location: R4
 Sources: Public Plaza Flex Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	46.9
8:00 AM	46.9
9:00 AM	46.9
10:00 AM	46.9
11:00 AM	46.9
12:00 PM	46.9
1:00 PM	46.9
2:00 PM	46.9
3:00 PM	46.9
4:00 PM	46.9
5:00 PM	46.9
6:00 PM	46.9
7:00 PM	46.9
8:00 PM	46.9
9:00 PM	46.9
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	48.4

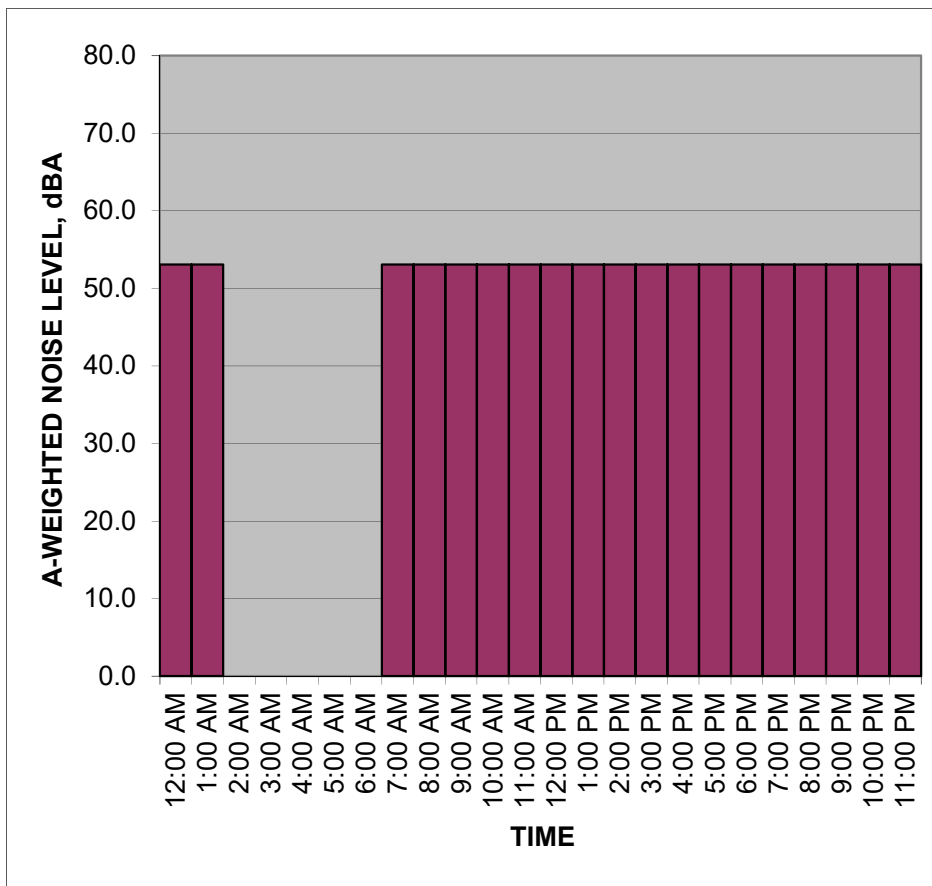


NOTES:

CNEL Calculation

Project: R4
 Location: R4
 Sources: Hotel Pool/Bar

TIME	HNL, dB(A)
12:00 AM	53.1
1:00 AM	53.1
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	53.1
8:00 AM	53.1
9:00 AM	53.1
10:00 AM	53.1
11:00 AM	53.1
12:00 PM	53.1
1:00 PM	53.1
2:00 PM	53.1
3:00 PM	53.1
4:00 PM	53.1
5:00 PM	53.1
6:00 PM	53.1
7:00 PM	53.1
8:00 PM	53.1
9:00 PM	53.1
10:00 PM	53.1
11:00 PM	53.1
CNEL, dB(A):	58.2

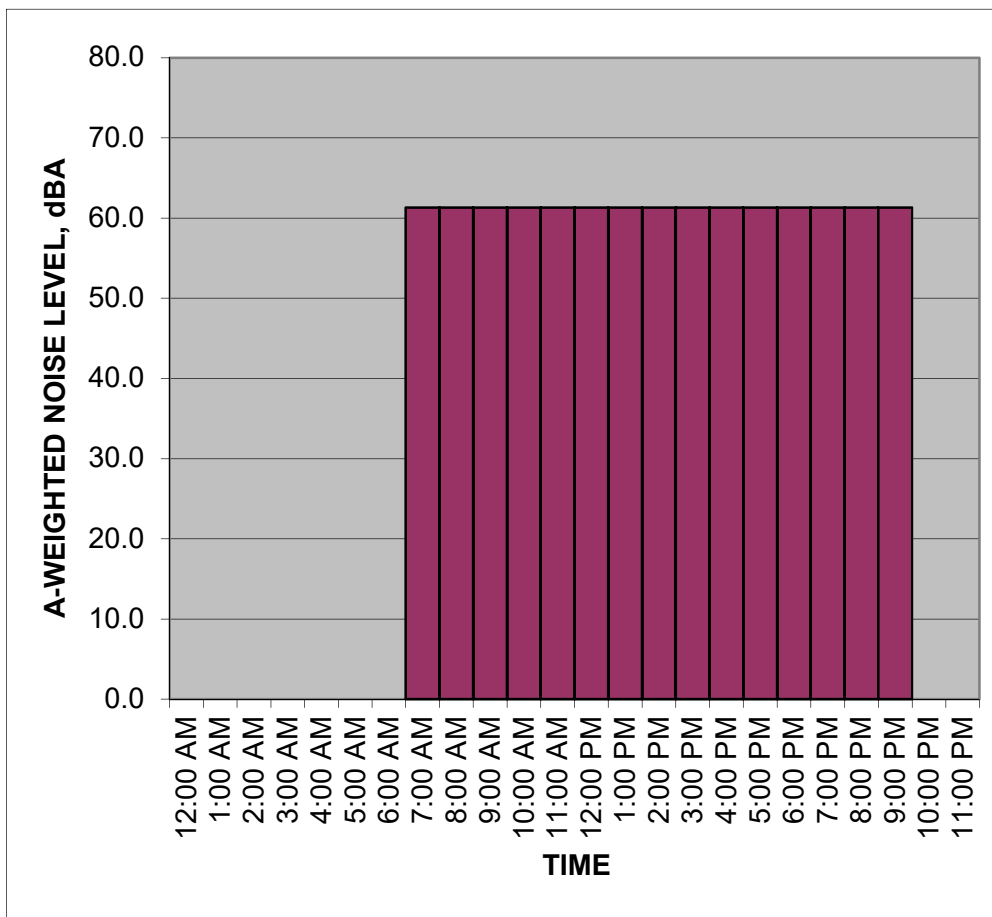


NOTES:

R4

Project: R4
 Location: R4
 Sources: Mesquit Paseo

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	61.3
8:00 AM	61.3
9:00 AM	61.3
10:00 AM	61.3
11:00 AM	61.3
12:00 PM	61.3
1:00 PM	61.3
2:00 PM	61.3
3:00 PM	61.3
4:00 PM	61.3
5:00 PM	61.3
6:00 PM	61.3
7:00 PM	61.3
8:00 PM	61.3
9:00 PM	61.3
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	62.9

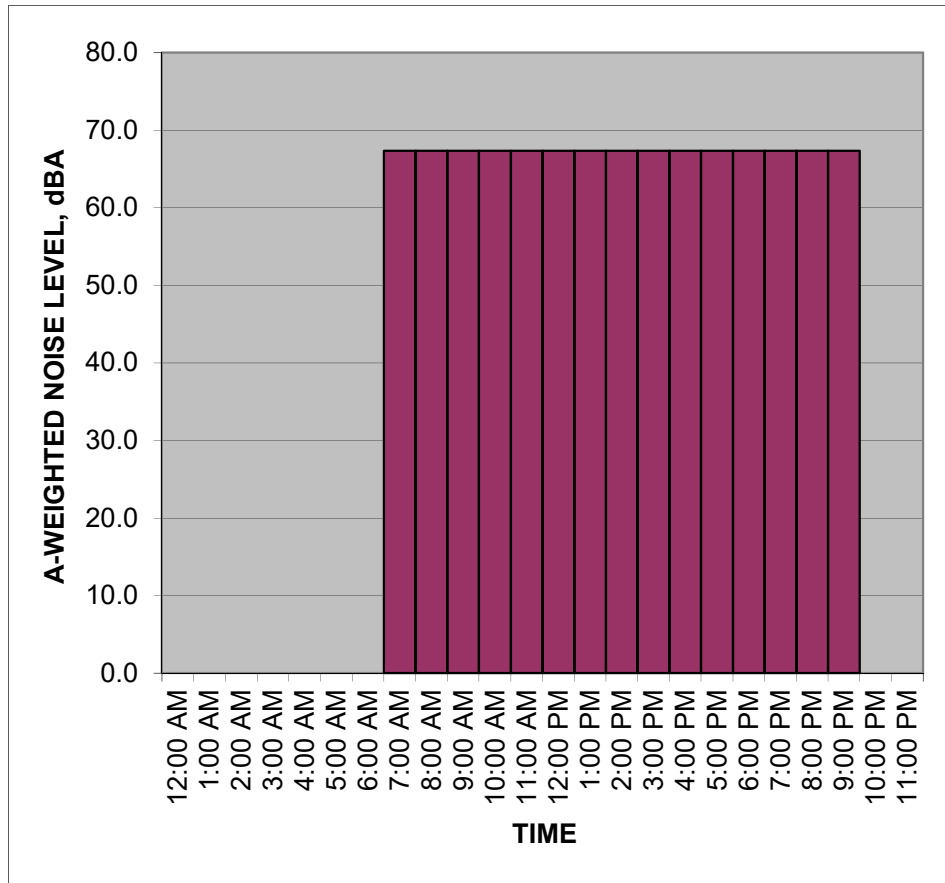


NOTES:

CNEL Calculation

Project: R4
 Location: R4
 Sources: Northern Landscaped Area

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	67.3
8:00 AM	67.3
9:00 AM	67.3
10:00 AM	67.3
11:00 AM	67.3
12:00 PM	67.3
1:00 PM	67.3
2:00 PM	67.3
3:00 PM	67.3
4:00 PM	67.3
5:00 PM	67.3
6:00 PM	67.3
7:00 PM	67.3
8:00 PM	67.3
9:00 PM	67.3
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	68.9

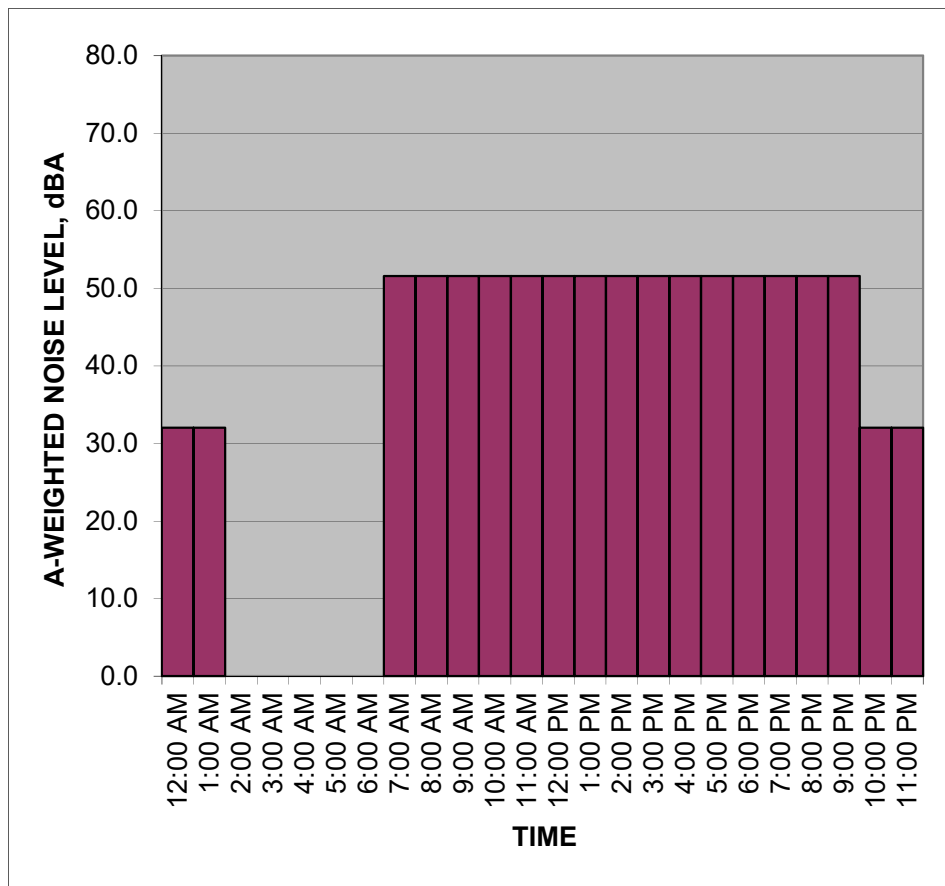


NOTES:

CNEL Calculation

Project: R4
 Location: R4
 Sources: Residential Pool

TIME	HNL, dB(A)
12:00 AM	32.0
1:00 AM	32.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	51.6
8:00 AM	51.6
9:00 AM	51.6
10:00 AM	51.6
11:00 AM	51.6
12:00 PM	51.6
1:00 PM	51.6
2:00 PM	51.6
3:00 PM	51.6
4:00 PM	51.6
5:00 PM	51.6
6:00 PM	51.6
7:00 PM	51.6
8:00 PM	51.6
9:00 PM	51.6
10:00 PM	32.0
11:00 PM	32.0
CNEL, dB(A):	52.2

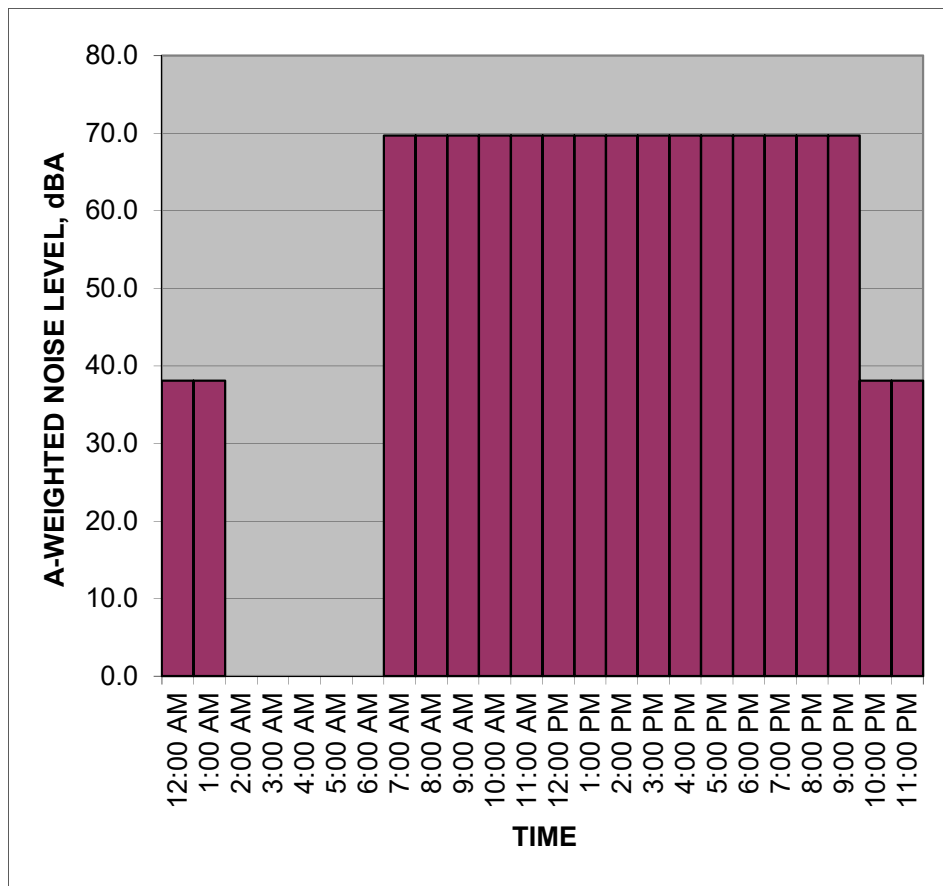


NOTES:

CNEL Calculation

Project: R4
 Location: R4
 Sources: River Balcony N

TIME	HNL, dB(A)
12:00 AM	38.1
1:00 AM	38.1
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	69.7
8:00 AM	69.7
9:00 AM	69.7
10:00 AM	69.7
11:00 AM	69.7
12:00 PM	69.7
1:00 PM	69.7
2:00 PM	69.7
3:00 PM	69.7
4:00 PM	69.7
5:00 PM	69.7
6:00 PM	69.7
7:00 PM	69.7
8:00 PM	69.7
9:00 PM	69.7
10:00 PM	38.1
11:00 PM	38.1
CNEL, dB(A):	70.2

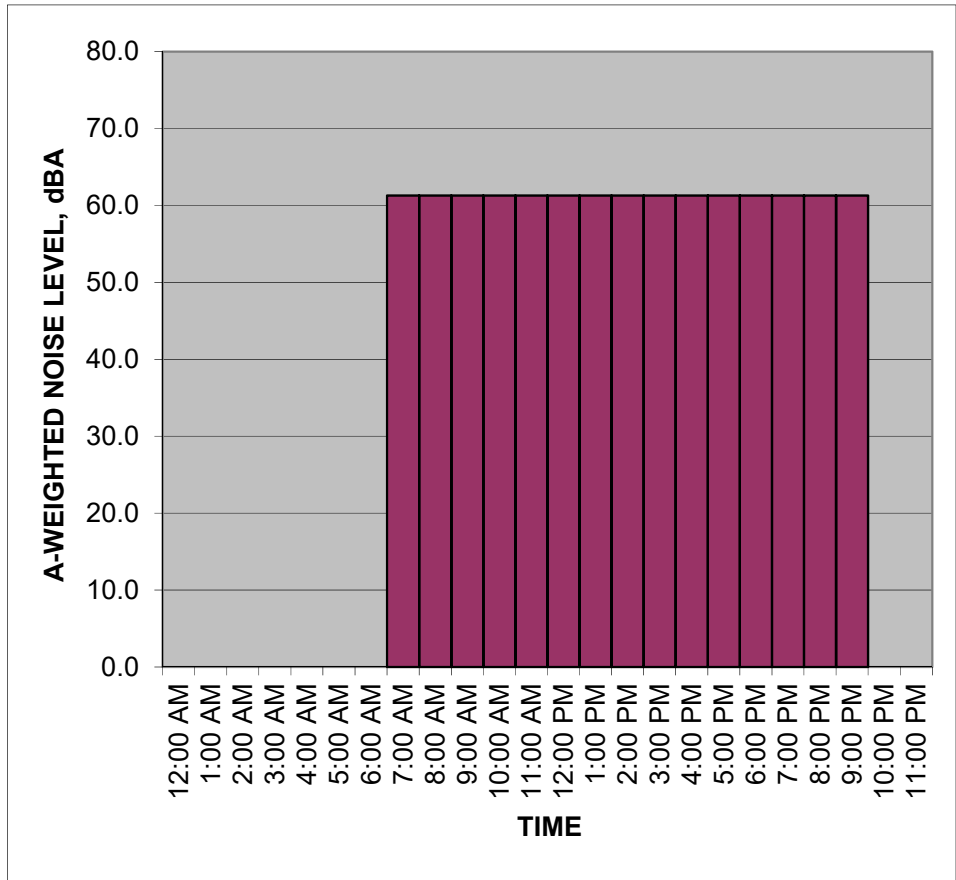


NOTES:

R4

Project: R4
 Location: R4
 Sources: River Balcony South

TIME	HNL, dB(A)
12:00 AM	12.0
1:00 AM	12.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	46.8
8:00 AM	46.8
9:00 AM	46.8
10:00 AM	46.8
11:00 AM	46.8
12:00 PM	46.8
1:00 PM	46.8
2:00 PM	46.8
3:00 PM	46.8
4:00 PM	46.8
5:00 PM	46.8
6:00 PM	46.8
7:00 PM	46.8
8:00 PM	46.8
9:00 PM	46.8
10:00 PM	12.0
11:00 PM	12.0
CNEL, dB(A):	47.4

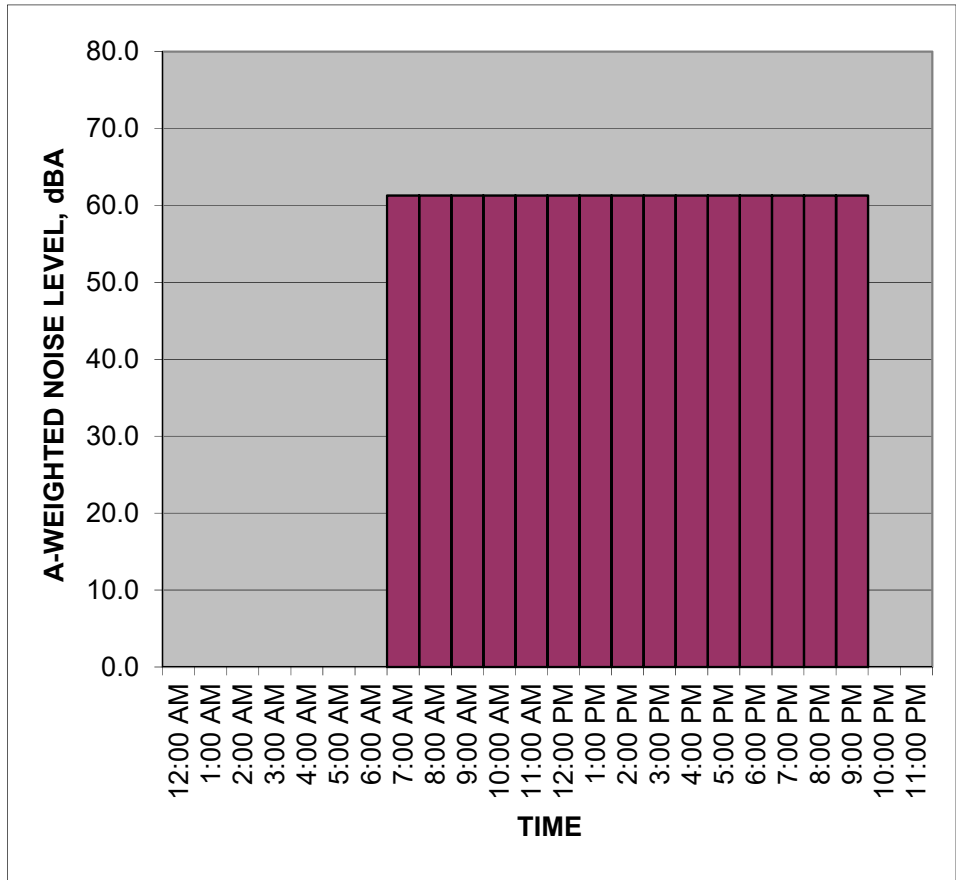


NOTES:

R4

Project: R4
 Location: R4
 Sources: Sculpture Garden

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	49.0
8:00 AM	49.0
9:00 AM	49.0
10:00 AM	49.0
11:00 AM	49.0
12:00 PM	49.0
1:00 PM	49.0
2:00 PM	49.0
3:00 PM	49.0
4:00 PM	49.0
5:00 PM	49.0
6:00 PM	49.0
7:00 PM	49.0
8:00 PM	49.0
9:00 PM	49.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	50.6

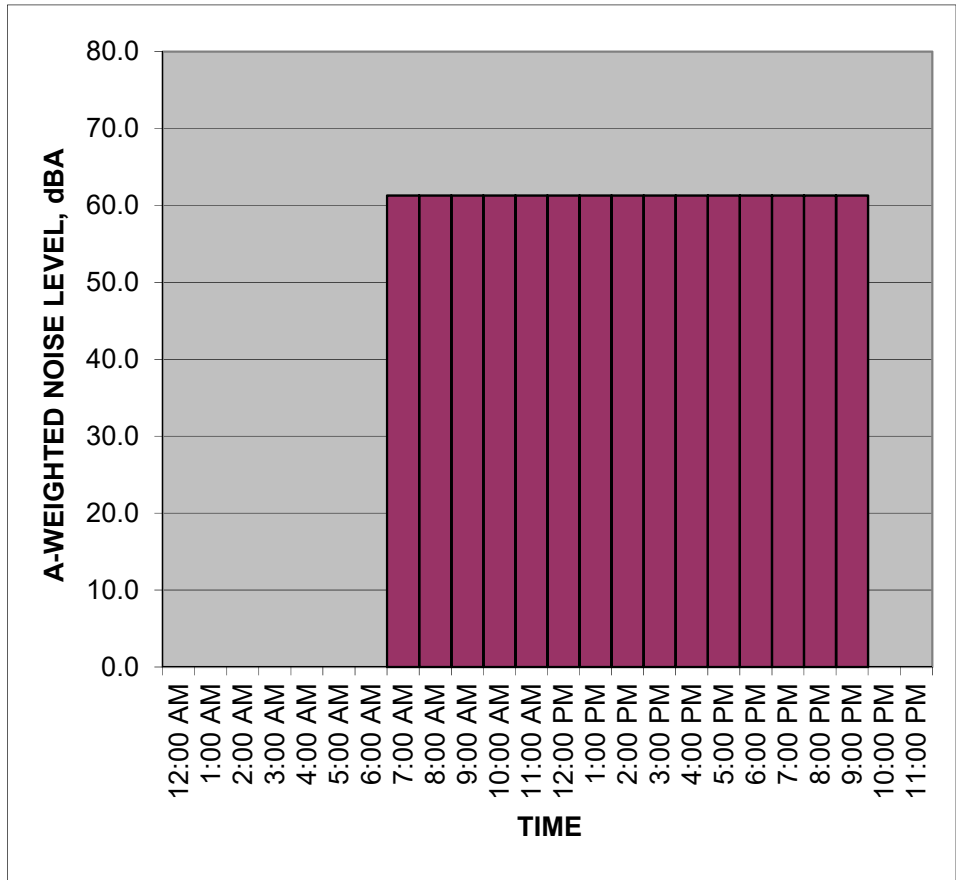


NOTES:

R4

Project: R4
 Location: R4
 Sources: Work Breakout Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	24.0
8:00 AM	24.0
9:00 AM	24.0
10:00 AM	24.0
11:00 AM	24.0
12:00 PM	24.0
1:00 PM	24.0
2:00 PM	24.0
3:00 PM	24.0
4:00 PM	24.0
5:00 PM	24.0
6:00 PM	24.0
7:00 PM	24.0
8:00 PM	24.0
9:00 PM	24.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	25.5



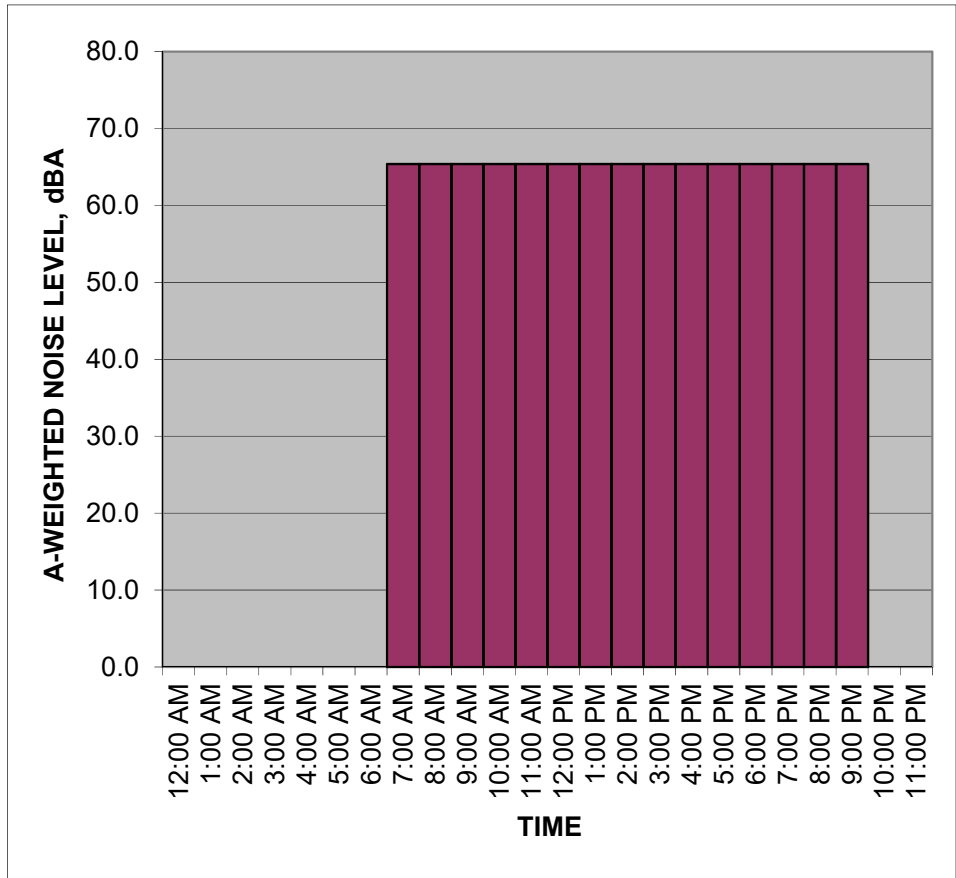
NOTES:

Open Space CNEEL - Mitigated

R1

Project: R1
 Location: R1
 Sources: 7th Street Terrace

TIME	HNL, dB(A)
12:00 AM	56.2
1:00 AM	56.2
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	56.2
8:00 AM	56.2
9:00 AM	56.2
10:00 AM	56.2
11:00 AM	56.2
12:00 PM	56.2
1:00 PM	56.2
2:00 PM	56.2
3:00 PM	56.2
4:00 PM	56.2
5:00 PM	56.2
6:00 PM	56.2
7:00 PM	56.2
8:00 PM	56.2
9:00 PM	56.2
10:00 PM	56.2
11:00 PM	56.2
CNEL, dB(A):	61.3

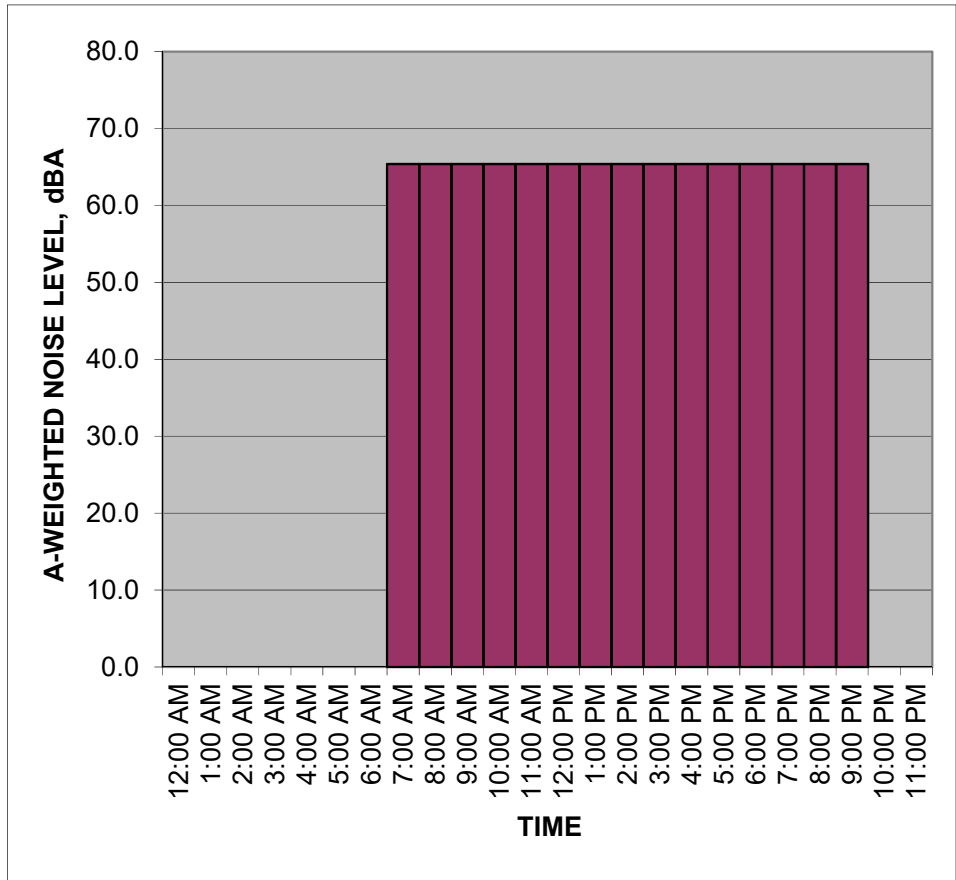


NOTES:

R1

Project: R1
 Location: R1
 Sources: Deck

TIME	HNL, dB(A)
12:00 AM	51.5
1:00 AM	51.5
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	51.5
8:00 AM	51.5
9:00 AM	51.5
10:00 AM	51.5
11:00 AM	51.5
12:00 PM	51.5
1:00 PM	51.5
2:00 PM	51.5
3:00 PM	51.5
4:00 PM	51.5
5:00 PM	51.5
6:00 PM	51.5
7:00 PM	51.5
8:00 PM	51.5
9:00 PM	51.5
10:00 PM	51.5
11:00 PM	51.5
CNEL, dB(A):	56.6

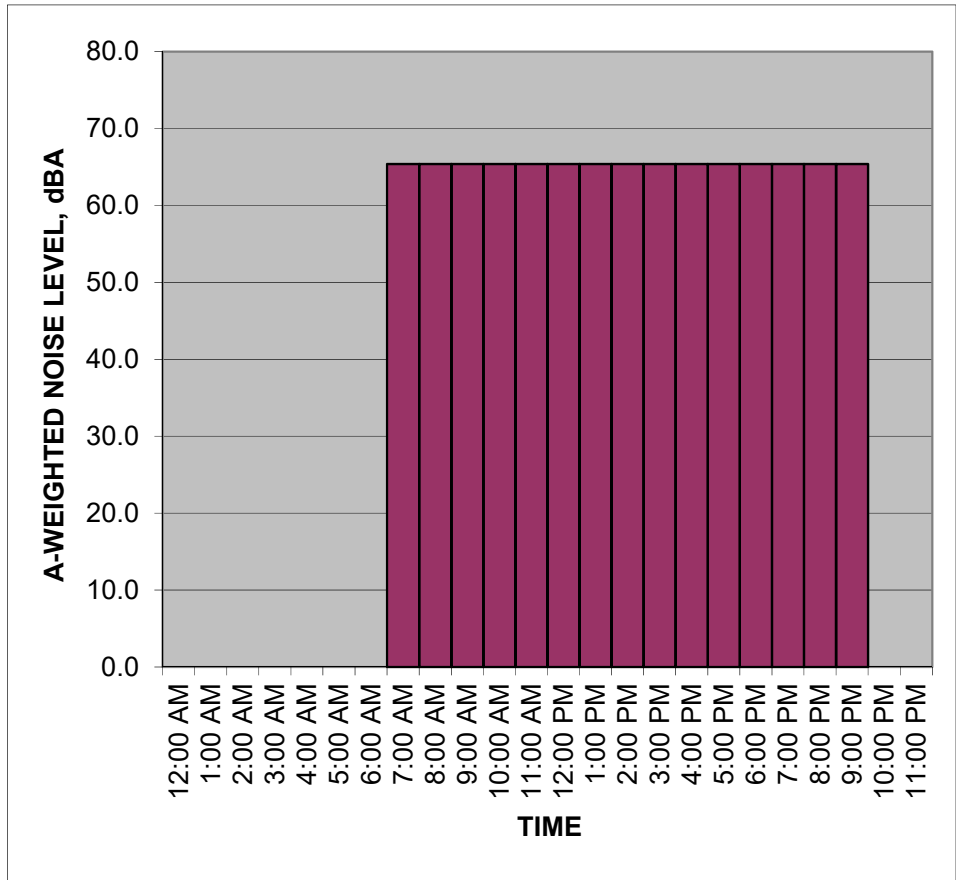


NOTES:

R1

Project: R1
 Location: R1
 Sources: Fitness Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	62.8
8:00 AM	62.8
9:00 AM	62.8
10:00 AM	62.8
11:00 AM	62.8
12:00 PM	62.8
1:00 PM	62.8
2:00 PM	62.8
3:00 PM	62.8
4:00 PM	62.8
5:00 PM	62.8
6:00 PM	62.8
7:00 PM	62.8
8:00 PM	62.8
9:00 PM	62.8
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	64.4

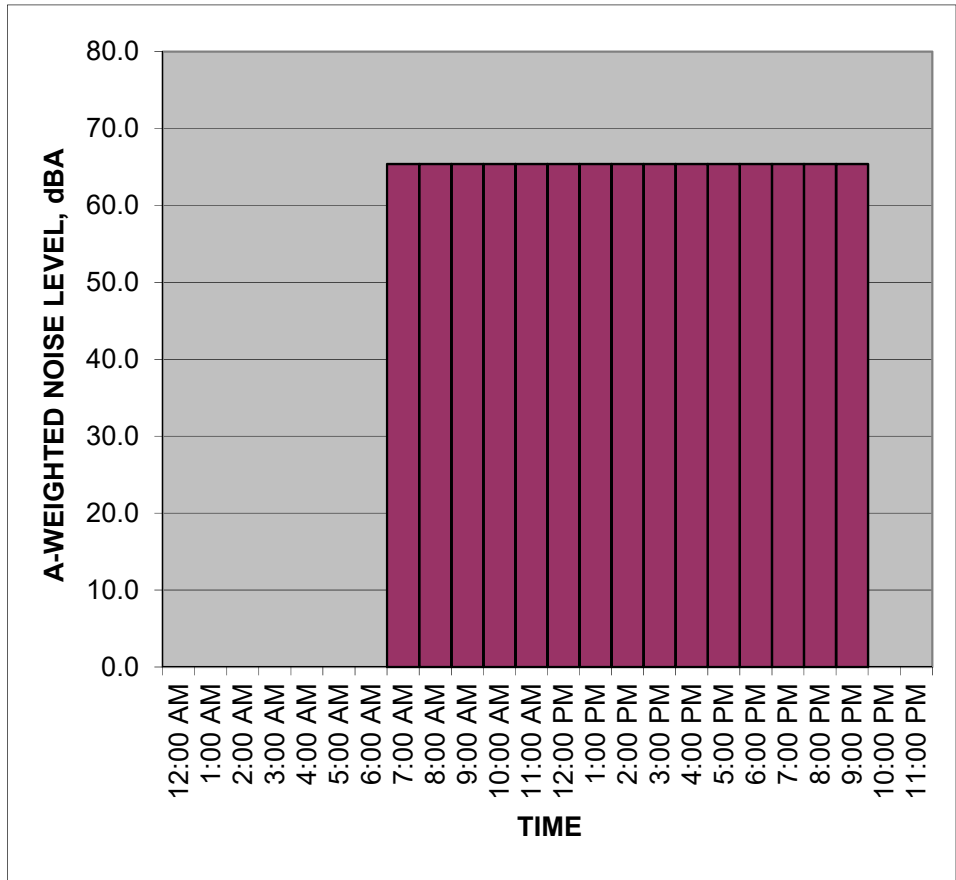


NOTES:

R1

Project: R1
 Location: R1
 Sources: Public Plaza Flex Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	64.5
8:00 AM	64.5
9:00 AM	64.5
10:00 AM	64.5
11:00 AM	64.5
12:00 PM	64.5
1:00 PM	64.5
2:00 PM	64.5
3:00 PM	64.5
4:00 PM	64.5
5:00 PM	64.5
6:00 PM	64.5
7:00 PM	64.5
8:00 PM	64.5
9:00 PM	64.5
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	66.0

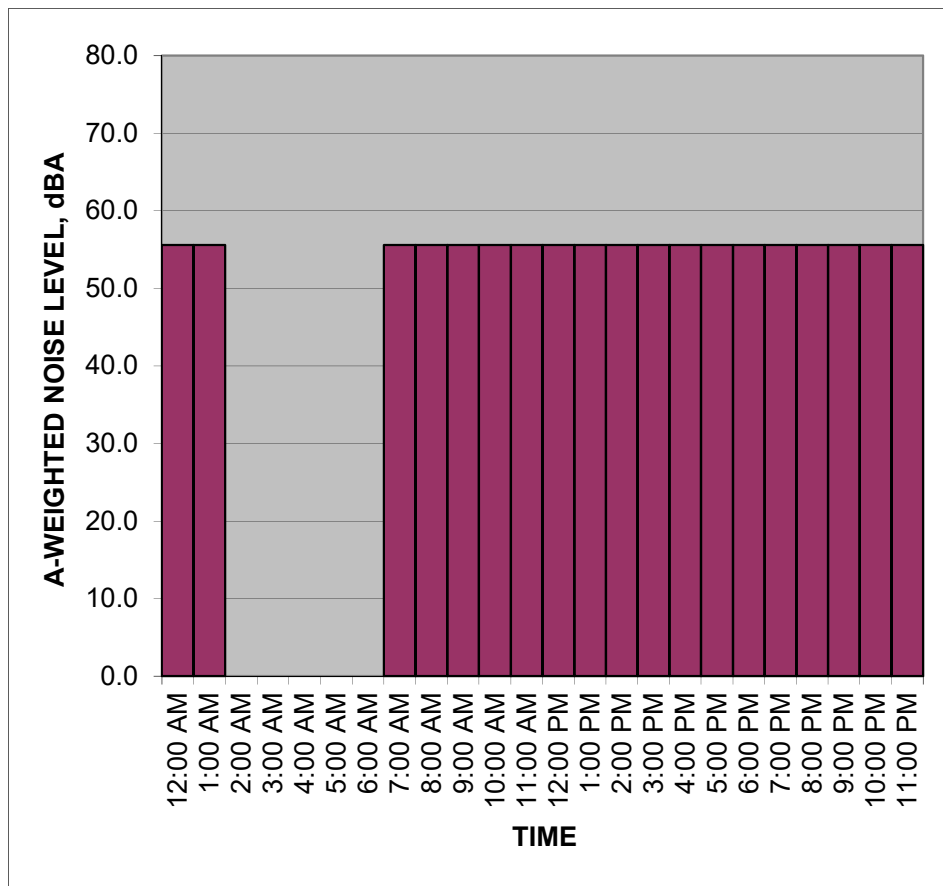


NOTES:

CNEL Calculation

Project: R1
 Location: R1
 Sources: Hotel Pool/Bar

TIME	HNL, dB(A)
12:00 AM	55.6
1:00 AM	55.6
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	55.6
8:00 AM	55.6
9:00 AM	55.6
10:00 AM	55.6
11:00 AM	55.6
12:00 PM	55.6
1:00 PM	55.6
2:00 PM	55.6
3:00 PM	55.6
4:00 PM	55.6
5:00 PM	55.6
6:00 PM	55.6
7:00 PM	55.6
8:00 PM	55.6
9:00 PM	55.6
10:00 PM	55.6
11:00 PM	55.6
CNEL, dB(A):	60.7

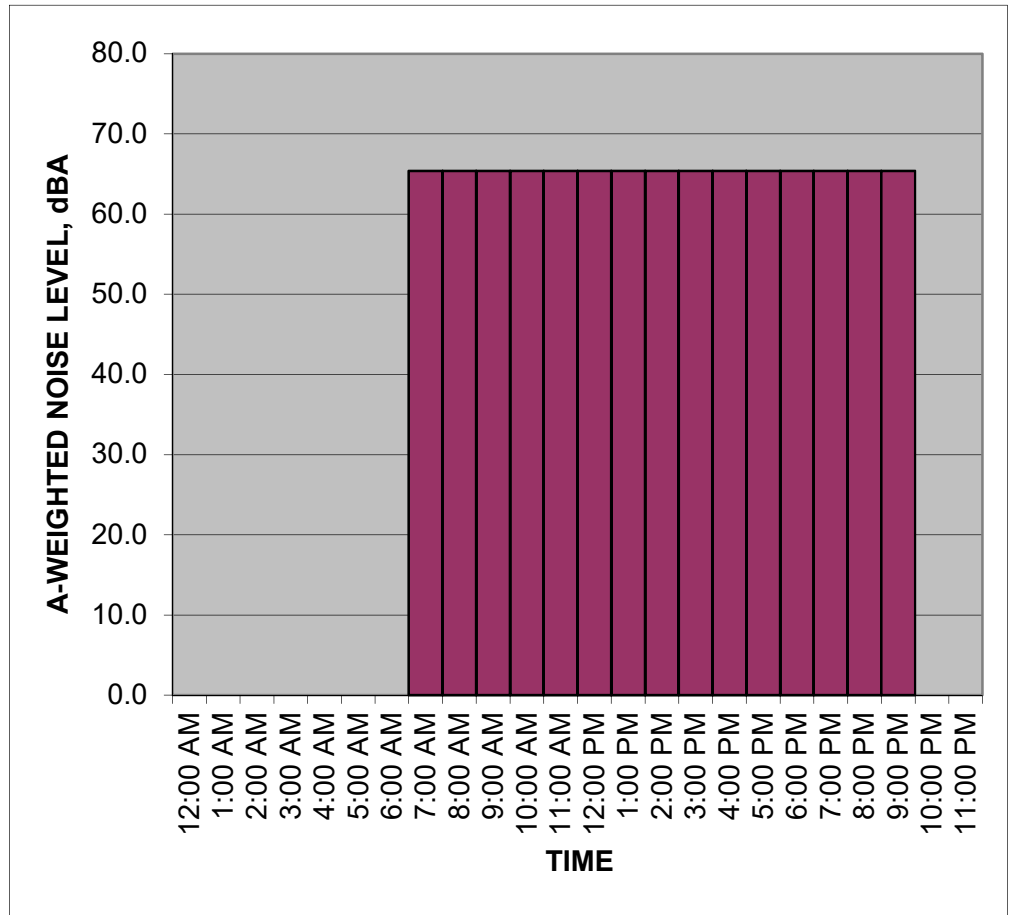


NOTES:

R1

Project: R1
 Location: R1
 Sources: Mesquit Paseo

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	65.4
8:00 AM	65.4
9:00 AM	65.4
10:00 AM	65.4
11:00 AM	65.4
12:00 PM	65.4
1:00 PM	65.4
2:00 PM	65.4
3:00 PM	65.4
4:00 PM	65.4
5:00 PM	65.4
6:00 PM	65.4
7:00 PM	65.4
8:00 PM	65.4
9:00 PM	65.4
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	66.9

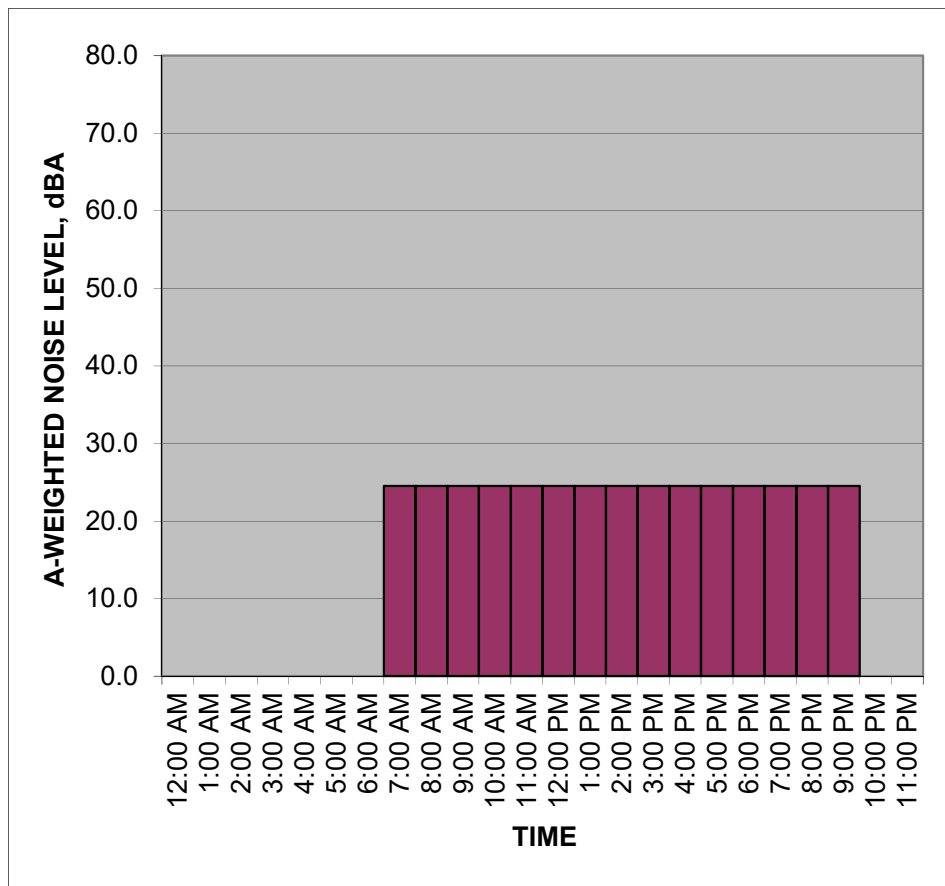


NOTES:

CNEL Calculation

Project: R1
 Location: R1
 Sources: Northern Landscaped Area

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	24.5
8:00 AM	24.5
9:00 AM	24.5
10:00 AM	24.5
11:00 AM	24.5
12:00 PM	24.5
1:00 PM	24.5
2:00 PM	24.5
3:00 PM	24.5
4:00 PM	24.5
5:00 PM	24.5
6:00 PM	24.5
7:00 PM	24.5
8:00 PM	24.5
9:00 PM	24.5
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	26.1

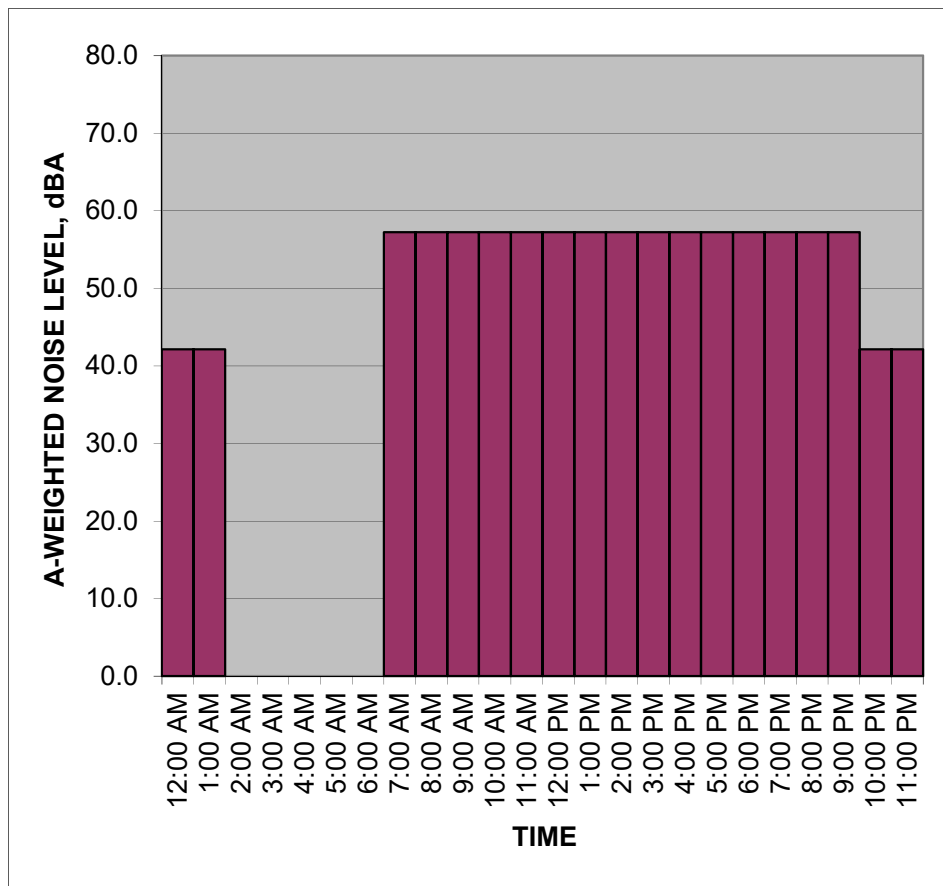


NOTES:

CNEL Calculation

Project: R1
 Location: R1
 Sources: Residential Pool

TIME	HNL, dB(A)
12:00 AM	42.1
1:00 AM	42.1
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	57.2
8:00 AM	57.2
9:00 AM	57.2
10:00 AM	57.2
11:00 AM	57.2
12:00 PM	57.2
1:00 PM	57.2
2:00 PM	57.2
3:00 PM	57.2
4:00 PM	57.2
5:00 PM	57.2
6:00 PM	57.2
7:00 PM	57.2
8:00 PM	57.2
9:00 PM	57.2
10:00 PM	42.1
11:00 PM	42.1
CNEL, dB(A):	58.0

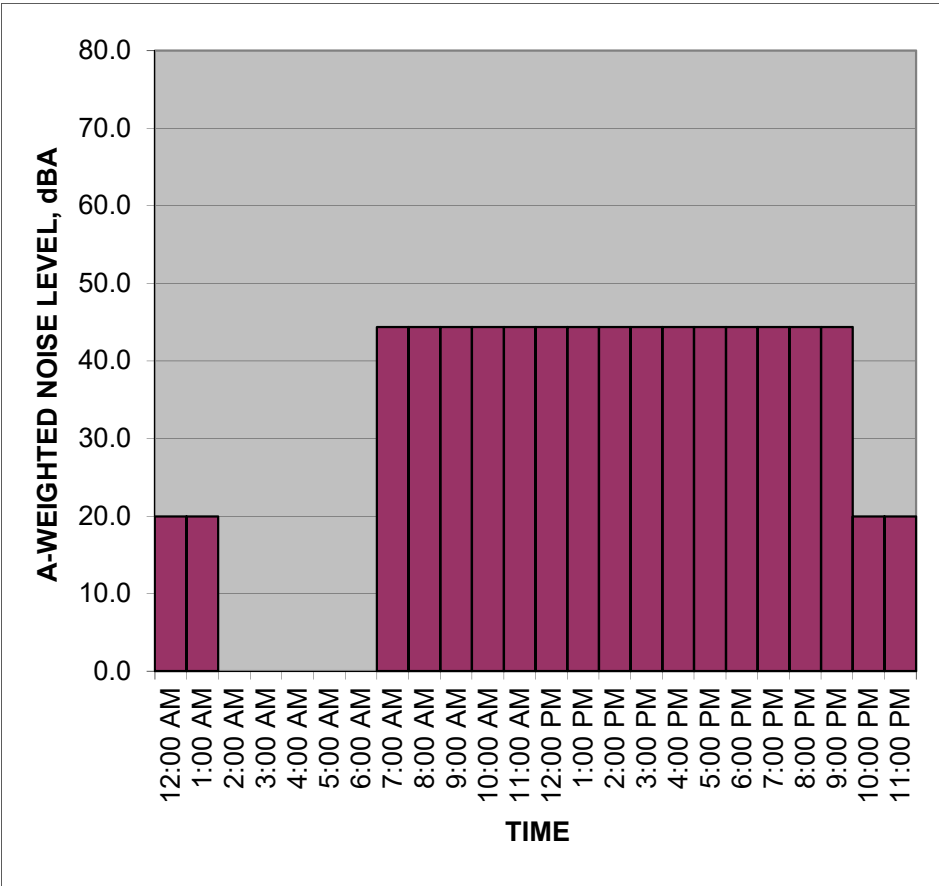


NOTES:

CNEL Calculation

Project: R1
 Location: R1
 Sources: River Balcony N

TIME	HNL, dB(A)
12:00 AM	19.9
1:00 AM	19.9
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	44.4
8:00 AM	44.4
9:00 AM	44.4
10:00 AM	44.4
11:00 AM	44.4
12:00 PM	44.4
1:00 PM	44.4
2:00 PM	44.4
3:00 PM	44.4
4:00 PM	44.4
5:00 PM	44.4
6:00 PM	44.4
7:00 PM	44.4
8:00 PM	44.4
9:00 PM	44.4
10:00 PM	19.9
11:00 PM	19.9
CNEL, dB(A):	44.9

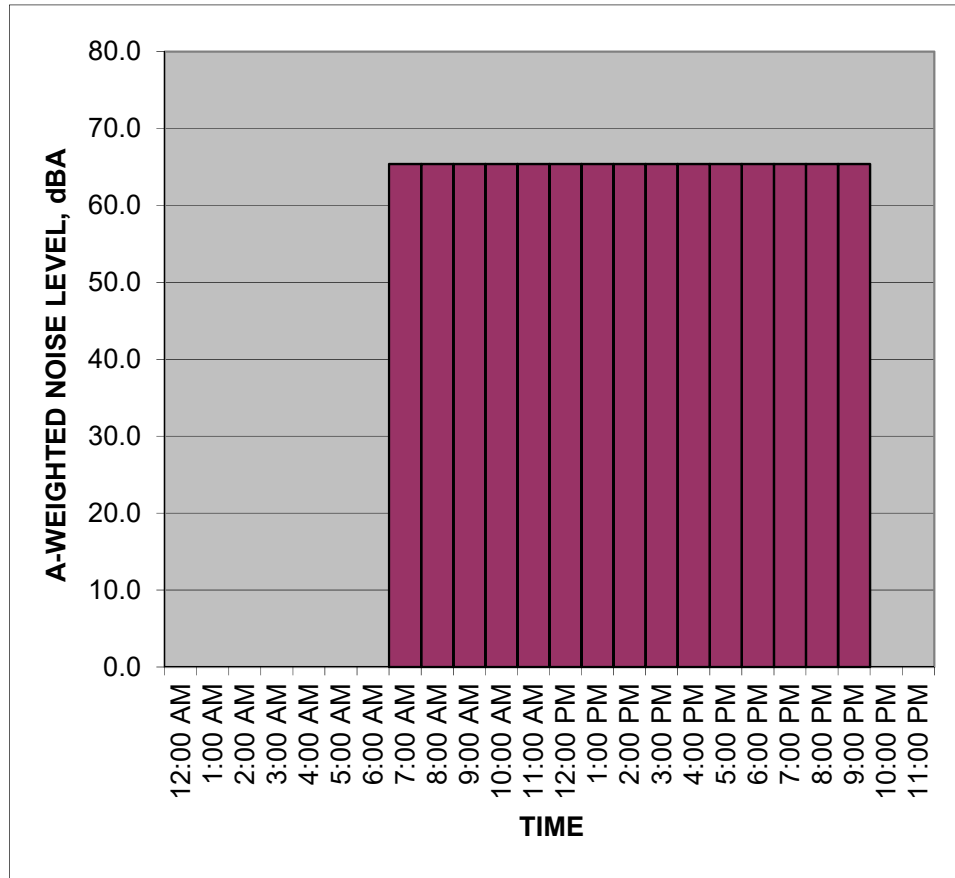


NOTES:

R1

Project: R1
 Location: R1
 Sources: Sculpture Garden

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	61.1
8:00 AM	61.1
9:00 AM	61.1
10:00 AM	61.1
11:00 AM	61.1
12:00 PM	61.1
1:00 PM	61.1
2:00 PM	61.1
3:00 PM	61.1
4:00 PM	61.1
5:00 PM	61.1
6:00 PM	61.1
7:00 PM	61.1
8:00 PM	61.1
9:00 PM	61.1
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	62.7

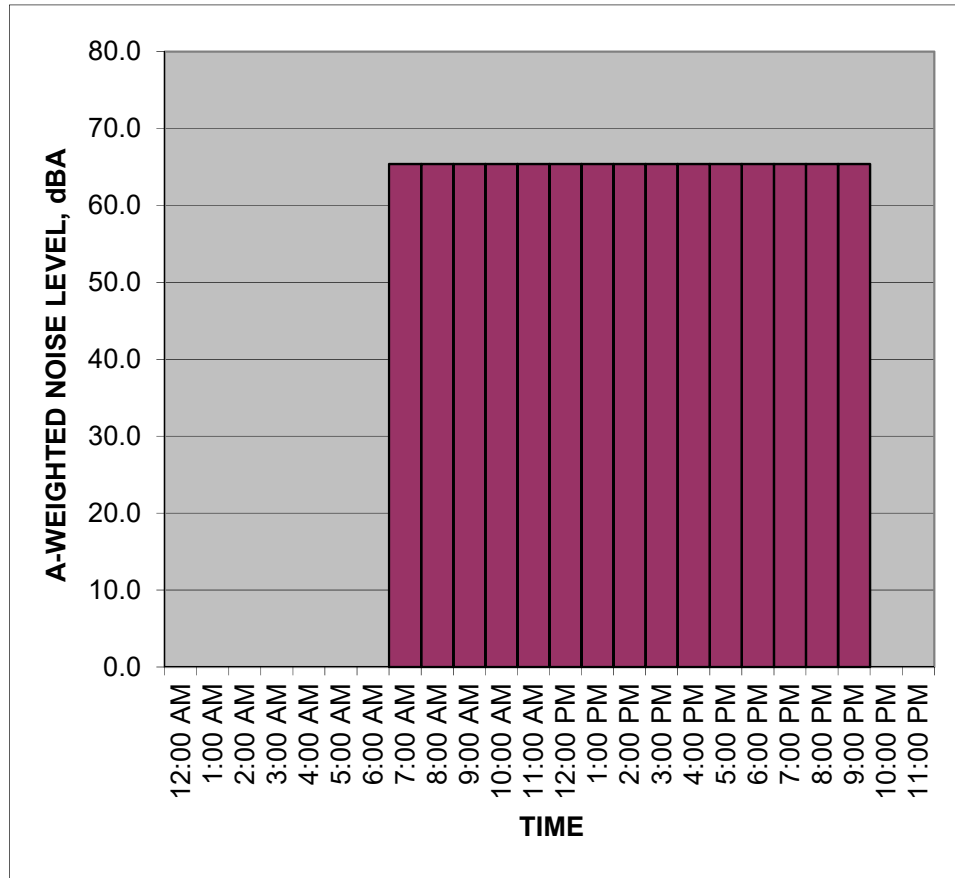


NOTES:

R1

Project: R1
 Location: R1
 Sources: Work Breakout Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	38.7
8:00 AM	38.7
9:00 AM	38.7
10:00 AM	38.7
11:00 AM	38.7
12:00 PM	38.7
1:00 PM	38.7
2:00 PM	38.7
3:00 PM	38.7
4:00 PM	38.7
5:00 PM	38.7
6:00 PM	38.7
7:00 PM	38.7
8:00 PM	38.7
9:00 PM	38.7
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	40.2

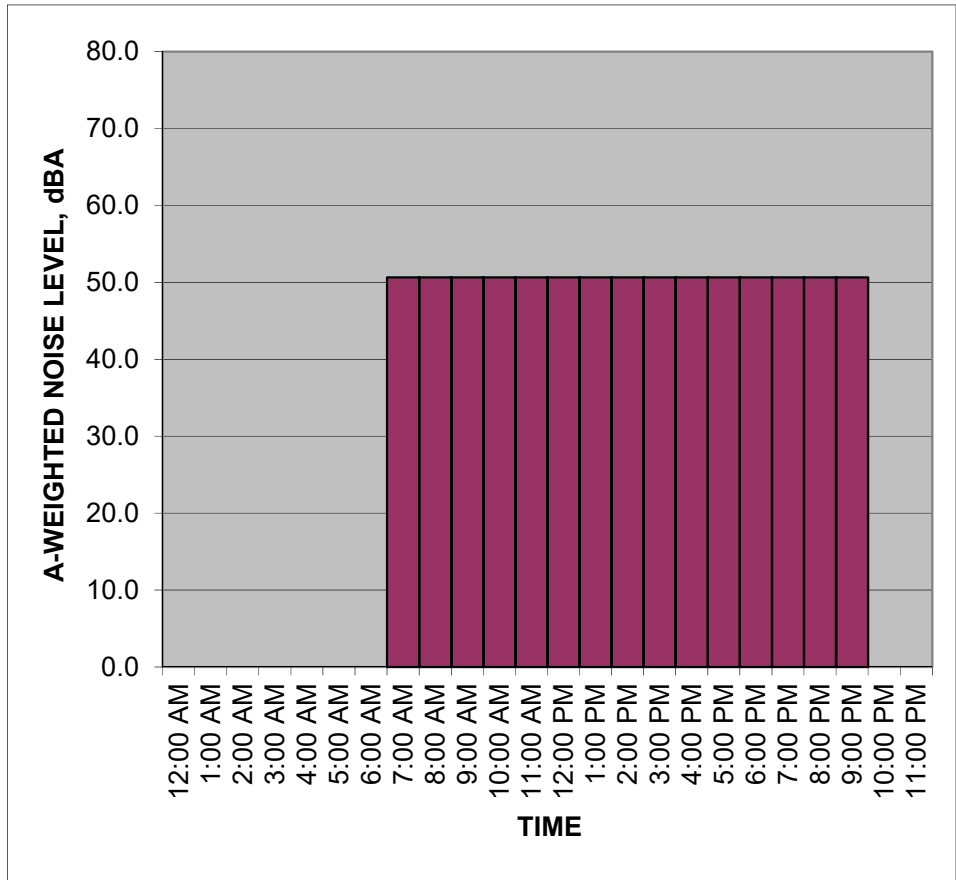


NOTES:

R2

Project: R2
 Location: R2
 Sources: 7th Street Terrace

TIME	HNL, dB(A)
12:00 AM	70.4
1:00 AM	70.4
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	70.4
8:00 AM	70.4
9:00 AM	70.4
10:00 AM	70.4
11:00 AM	70.4
12:00 PM	70.4
1:00 PM	70.4
2:00 PM	70.4
3:00 PM	70.4
4:00 PM	70.4
5:00 PM	70.4
6:00 PM	70.4
7:00 PM	70.4
8:00 PM	70.4
9:00 PM	70.4
10:00 PM	70.4
11:00 PM	70.4
CNEL, dB(A):	75.5

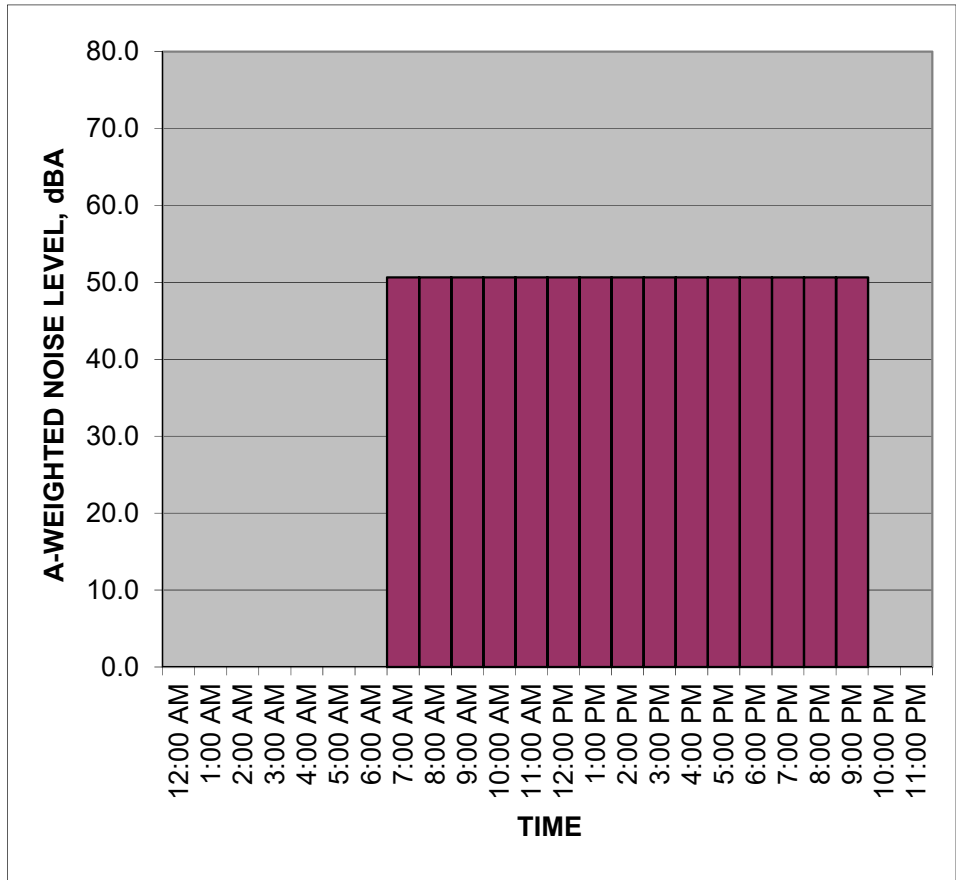


NOTES:

R2

Project: R2
 Location: R2
 Sources: Deck

TIME	HNL, dB(A)
12:00 AM	68.2
1:00 AM	68.2
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	68.2
8:00 AM	68.2
9:00 AM	68.2
10:00 AM	68.2
11:00 AM	68.2
12:00 PM	68.2
1:00 PM	68.2
2:00 PM	68.2
3:00 PM	68.2
4:00 PM	68.2
5:00 PM	68.2
6:00 PM	68.2
7:00 PM	68.2
8:00 PM	68.2
9:00 PM	68.2
10:00 PM	68.2
11:00 PM	68.2
CNEL, dB(A):	73.3

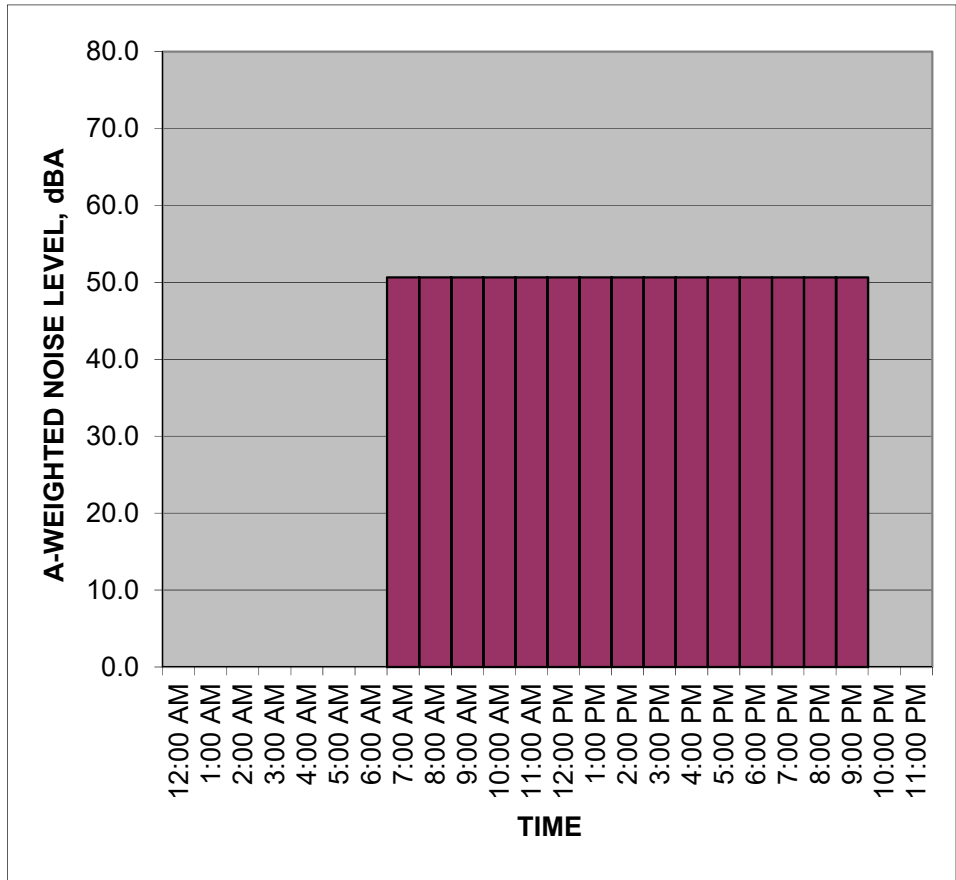


NOTES:

R2

Project: R2
 Location: R2
 Sources: Fitness Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	62.0
8:00 AM	62.0
9:00 AM	62.0
10:00 AM	62.0
11:00 AM	62.0
12:00 PM	62.0
1:00 PM	62.0
2:00 PM	62.0
3:00 PM	62.0
4:00 PM	62.0
5:00 PM	62.0
6:00 PM	62.0
7:00 PM	62.0
8:00 PM	62.0
9:00 PM	62.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	63.5

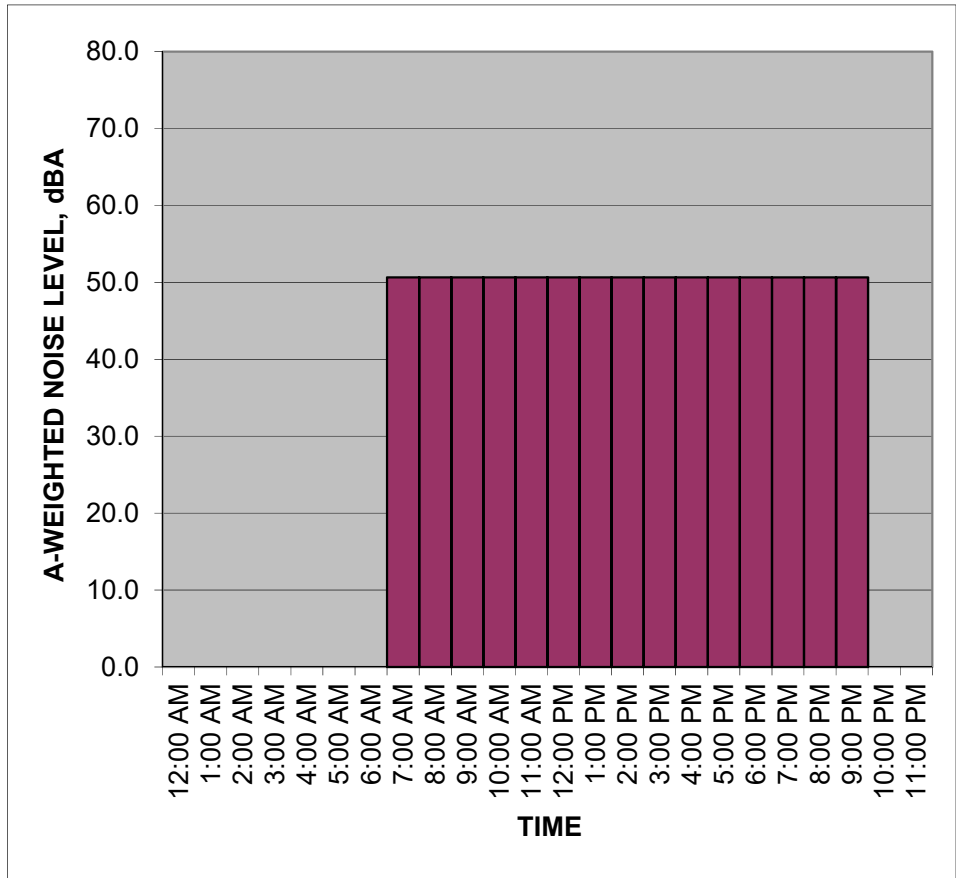


NOTES:

R2

Project: R2
 Location: R2
 Sources: Public Plaza Flex Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	66.0
8:00 AM	66.0
9:00 AM	66.0
10:00 AM	66.0
11:00 AM	66.0
12:00 PM	66.0
1:00 PM	66.0
2:00 PM	66.0
3:00 PM	66.0
4:00 PM	66.0
5:00 PM	66.0
6:00 PM	66.0
7:00 PM	66.0
8:00 PM	66.0
9:00 PM	66.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	67.6

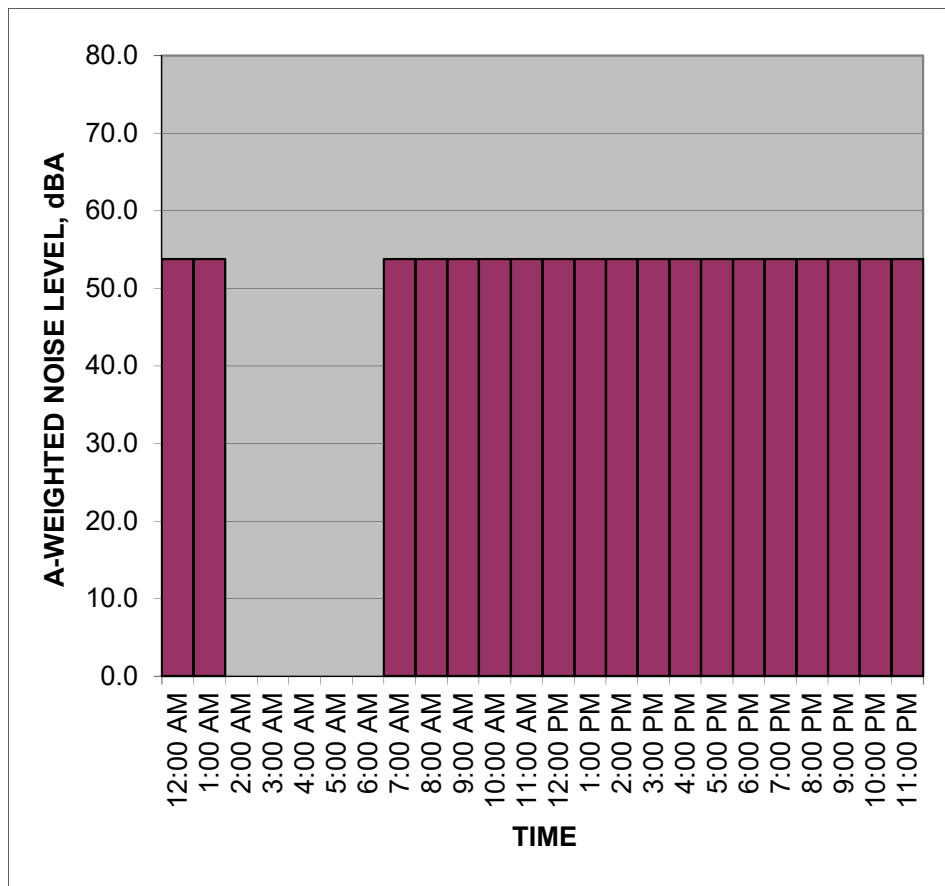


NOTES:

CNEL Calculation

Project: R2
 Location: R2
 Sources: Hotel Pool/Bar

TIME	HNL, dB(A)
12:00 AM	53.8
1:00 AM	53.8
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	53.8
8:00 AM	53.8
9:00 AM	53.8
10:00 AM	53.8
11:00 AM	53.8
12:00 PM	53.8
1:00 PM	53.8
2:00 PM	53.8
3:00 PM	53.8
4:00 PM	53.8
5:00 PM	53.8
6:00 PM	53.8
7:00 PM	53.8
8:00 PM	53.8
9:00 PM	53.8
10:00 PM	53.8
11:00 PM	53.8
CNEL, dB(A):	58.9

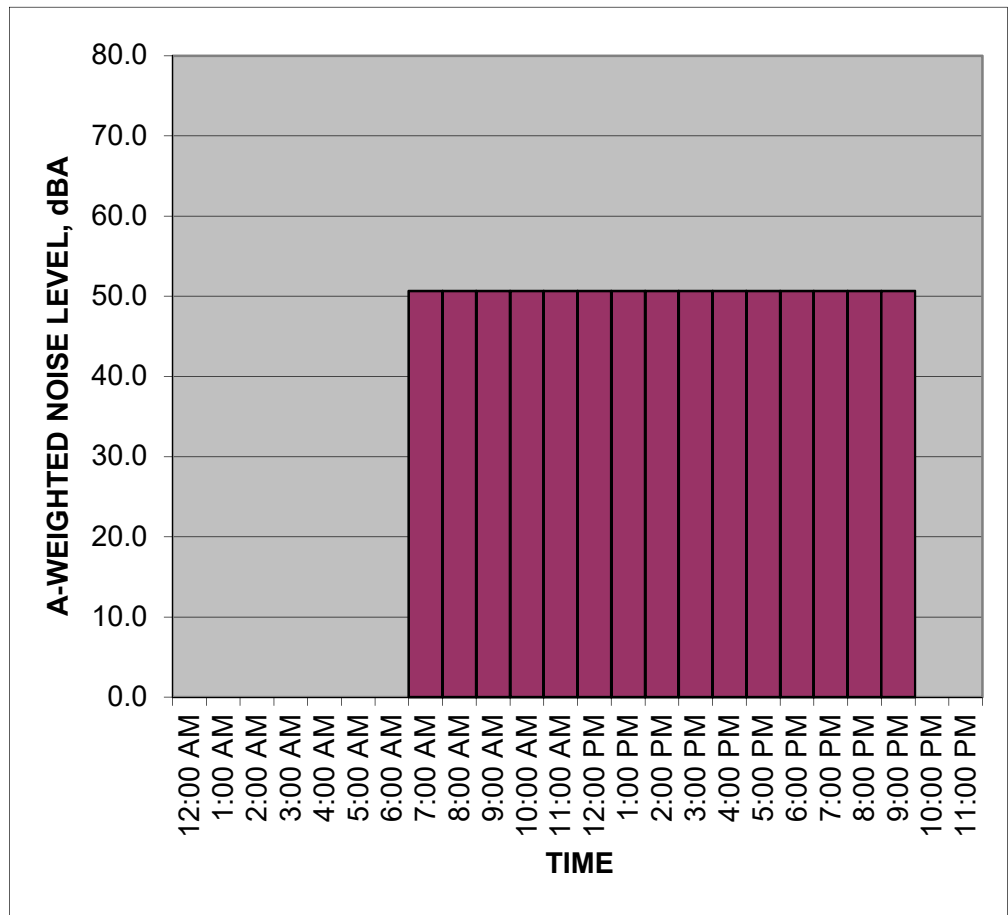


NOTES:

R2

Project: R2
 Location: R2
 Sources: Mesquit Paseo

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	50.6
8:00 AM	50.6
9:00 AM	50.6
10:00 AM	50.6
11:00 AM	50.6
12:00 PM	50.6
1:00 PM	50.6
2:00 PM	50.6
3:00 PM	50.6
4:00 PM	50.6
5:00 PM	50.6
6:00 PM	50.6
7:00 PM	50.6
8:00 PM	50.6
9:00 PM	50.6
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	52.2

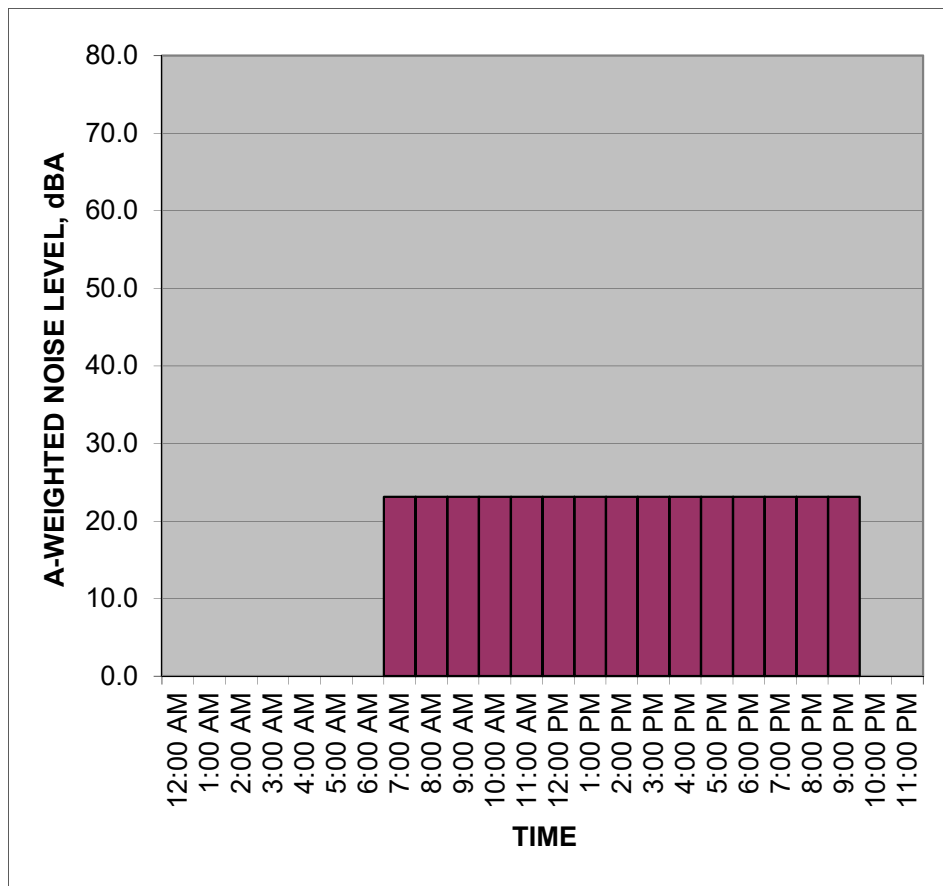


NOTES:

CNEL Calculation

Project: R2
 Location: R2
 Sources: Northern Landscaped Area

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	23.1
8:00 AM	23.1
9:00 AM	23.1
10:00 AM	23.1
11:00 AM	23.1
12:00 PM	23.1
1:00 PM	23.1
2:00 PM	23.1
3:00 PM	23.1
4:00 PM	23.1
5:00 PM	23.1
6:00 PM	23.1
7:00 PM	23.1
8:00 PM	23.1
9:00 PM	23.1
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	24.7

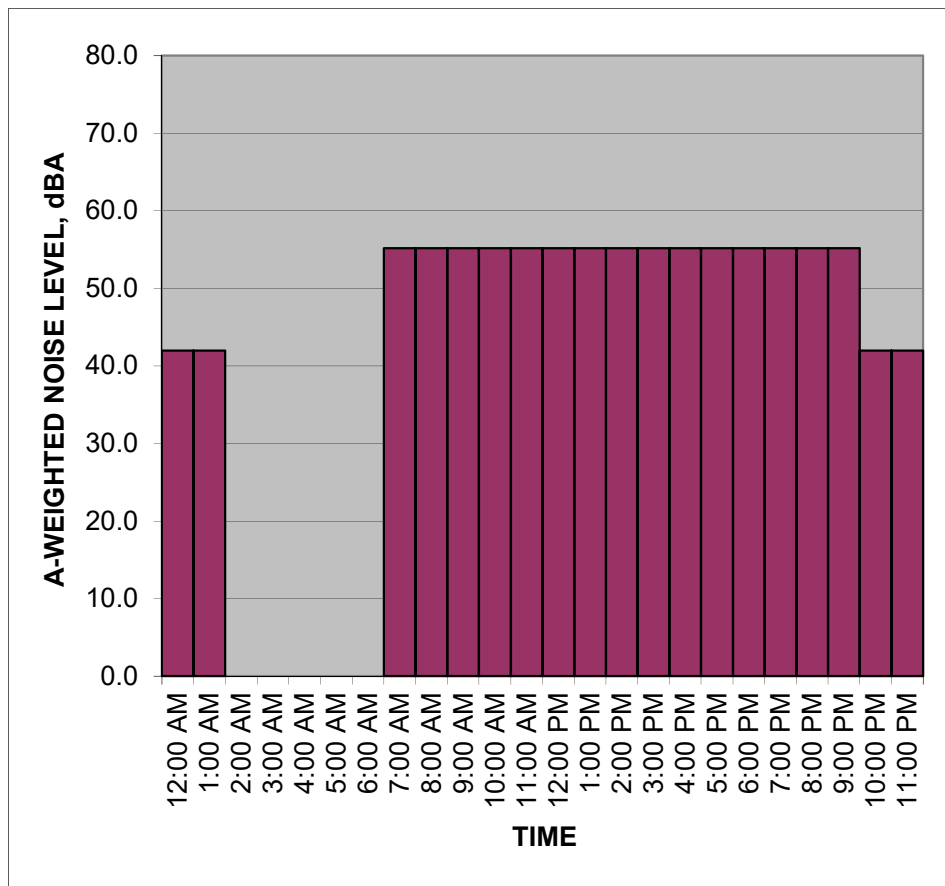


NOTES:

CNEL Calculation

Project: R2
 Location: R2
 Sources: Residential Pool

TIME	HNL, dB(A)
12:00 AM	42.0
1:00 AM	42.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	55.2
8:00 AM	55.2
9:00 AM	55.2
10:00 AM	55.2
11:00 AM	55.2
12:00 PM	55.2
1:00 PM	55.2
2:00 PM	55.2
3:00 PM	55.2
4:00 PM	55.2
5:00 PM	55.2
6:00 PM	55.2
7:00 PM	55.2
8:00 PM	55.2
9:00 PM	55.2
10:00 PM	42.0
11:00 PM	42.0
CNEL, dB(A):	56.1

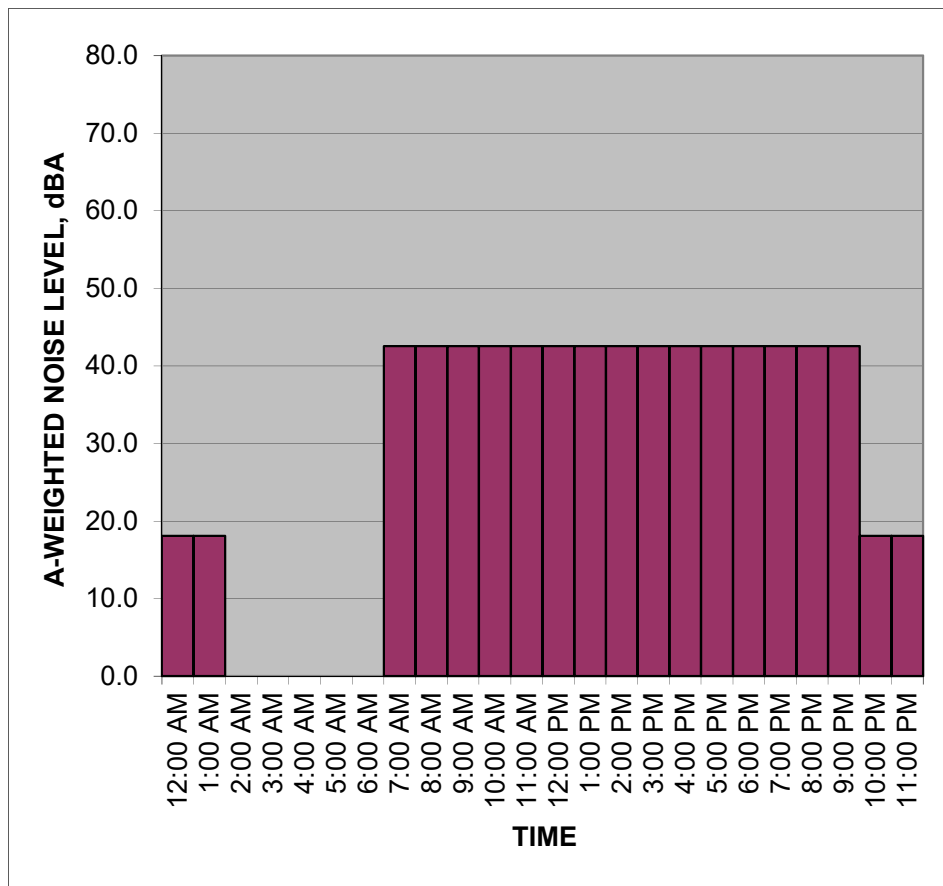


NOTES:

CNEL Calculation

Project: R2
 Location: R2
 Sources: River Balcony N

TIME	HNL, dB(A)
12:00 AM	18.1
1:00 AM	18.1
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	42.5
8:00 AM	42.5
9:00 AM	42.5
10:00 AM	42.5
11:00 AM	42.5
12:00 PM	42.5
1:00 PM	42.5
2:00 PM	42.5
3:00 PM	42.5
4:00 PM	42.5
5:00 PM	42.5
6:00 PM	42.5
7:00 PM	42.5
8:00 PM	42.5
9:00 PM	42.5
10:00 PM	18.1
11:00 PM	18.1
CNEL, dB(A):	43.1

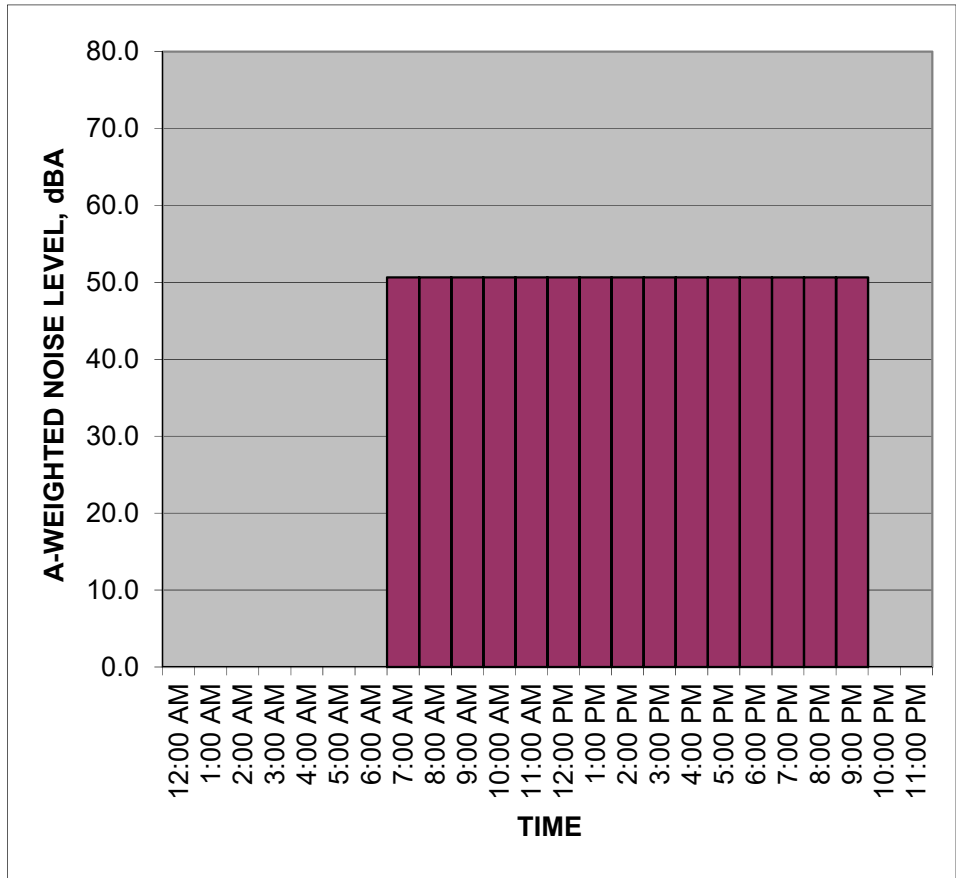


NOTES:

R2

Project: R2
 Location: R2
 Sources: River Balcony South

TIME	HNL, dB(A)
12:00 AM	27.9
1:00 AM	27.9
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	58.8
8:00 AM	58.8
9:00 AM	58.8
10:00 AM	58.8
11:00 AM	58.8
12:00 PM	58.8
1:00 PM	58.8
2:00 PM	58.8
3:00 PM	58.8
4:00 PM	58.8
5:00 PM	58.8
6:00 PM	58.8
7:00 PM	58.8
8:00 PM	58.8
9:00 PM	58.8
10:00 PM	27.9
11:00 PM	27.9
CNEL, dB(A):	59.3

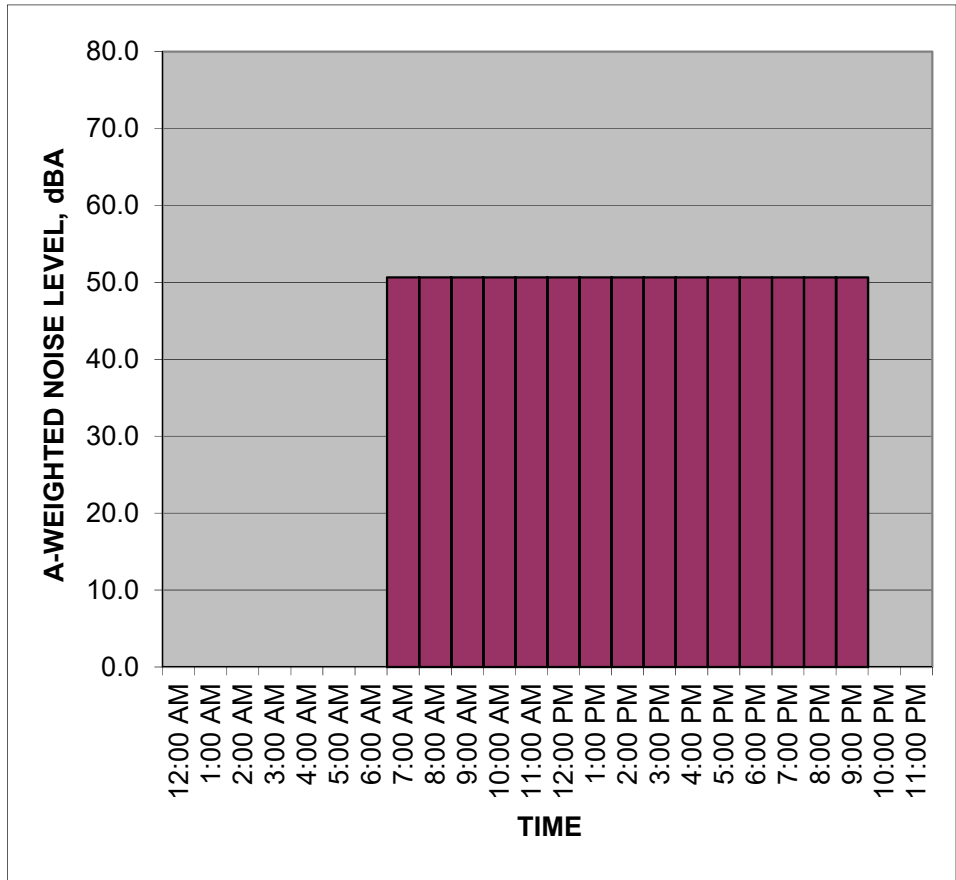


NOTES:

R2

Project: R2
 Location: R2
 Sources: Sculpture Garden

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	59.1
8:00 AM	59.1
9:00 AM	59.1
10:00 AM	59.1
11:00 AM	59.1
12:00 PM	59.1
1:00 PM	59.1
2:00 PM	59.1
3:00 PM	59.1
4:00 PM	59.1
5:00 PM	59.1
6:00 PM	59.1
7:00 PM	59.1
8:00 PM	59.1
9:00 PM	59.1
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	60.7

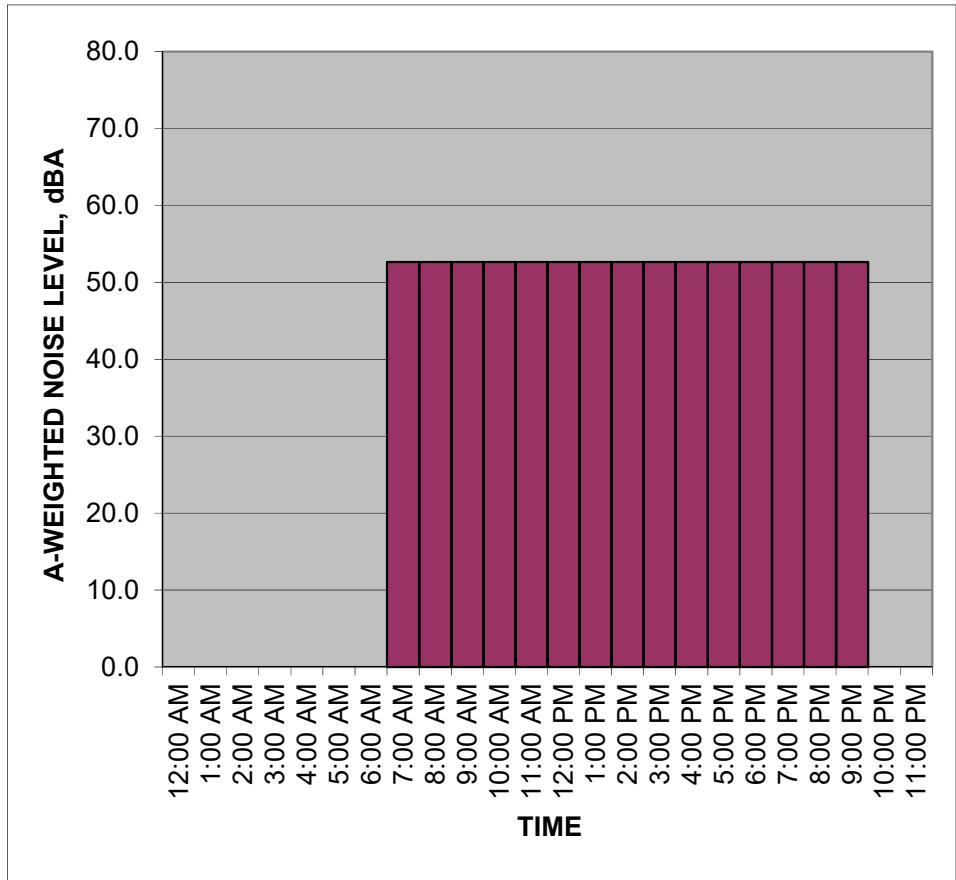


NOTES:

R3

Project: R3
 Location: R3
 Sources: 7th Street Terrace

TIME	HNL, dB(A)
12:00 AM	50.0
1:00 AM	50.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	50.0
8:00 AM	50.0
9:00 AM	50.0
10:00 AM	50.0
11:00 AM	50.0
12:00 PM	50.0
1:00 PM	50.0
2:00 PM	50.0
3:00 PM	50.0
4:00 PM	50.0
5:00 PM	50.0
6:00 PM	50.0
7:00 PM	50.0
8:00 PM	50.0
9:00 PM	50.0
10:00 PM	50.0
11:00 PM	50.0
CNEL, dB(A):	55.1

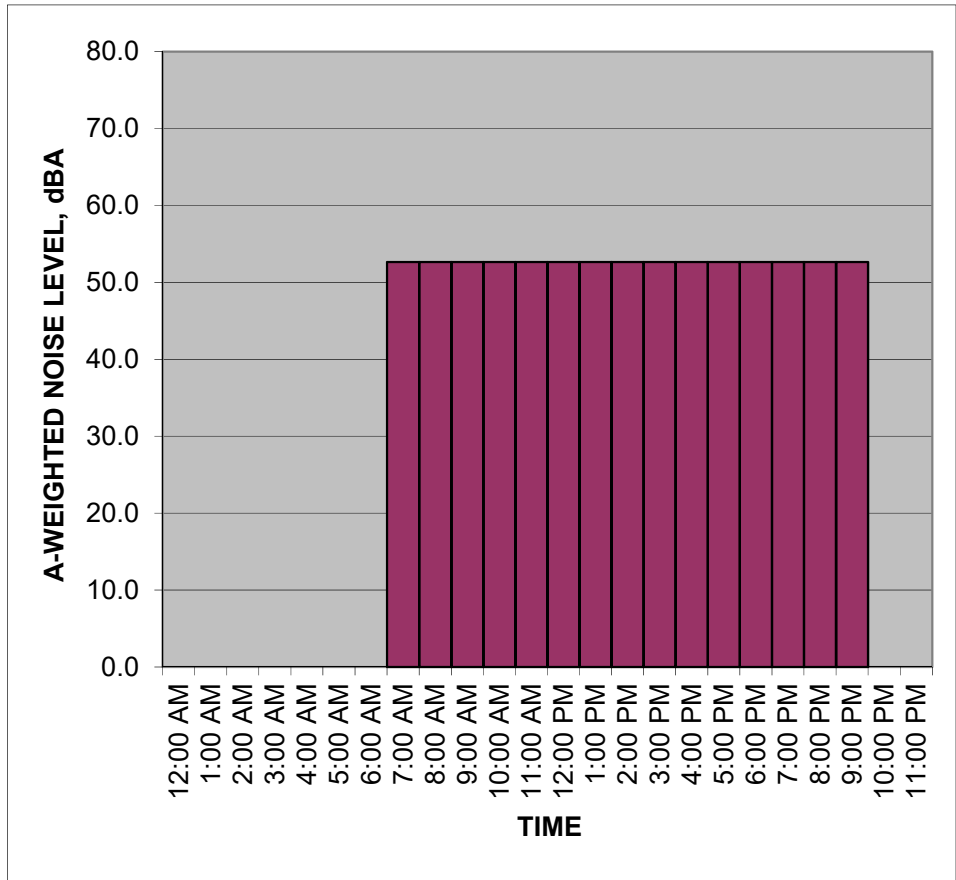


NOTES:

R3

Project: R3
 Location: R3
 Sources: Deck

TIME	HNL, dB(A)
12:00 AM	48.8
1:00 AM	48.8
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	48.8
8:00 AM	48.8
9:00 AM	48.8
10:00 AM	48.8
11:00 AM	48.8
12:00 PM	48.8
1:00 PM	48.8
2:00 PM	48.8
3:00 PM	48.8
4:00 PM	48.8
5:00 PM	48.8
6:00 PM	48.8
7:00 PM	48.8
8:00 PM	48.8
9:00 PM	48.8
10:00 PM	48.8
11:00 PM	48.8
CNEL, dB(A):	53.9

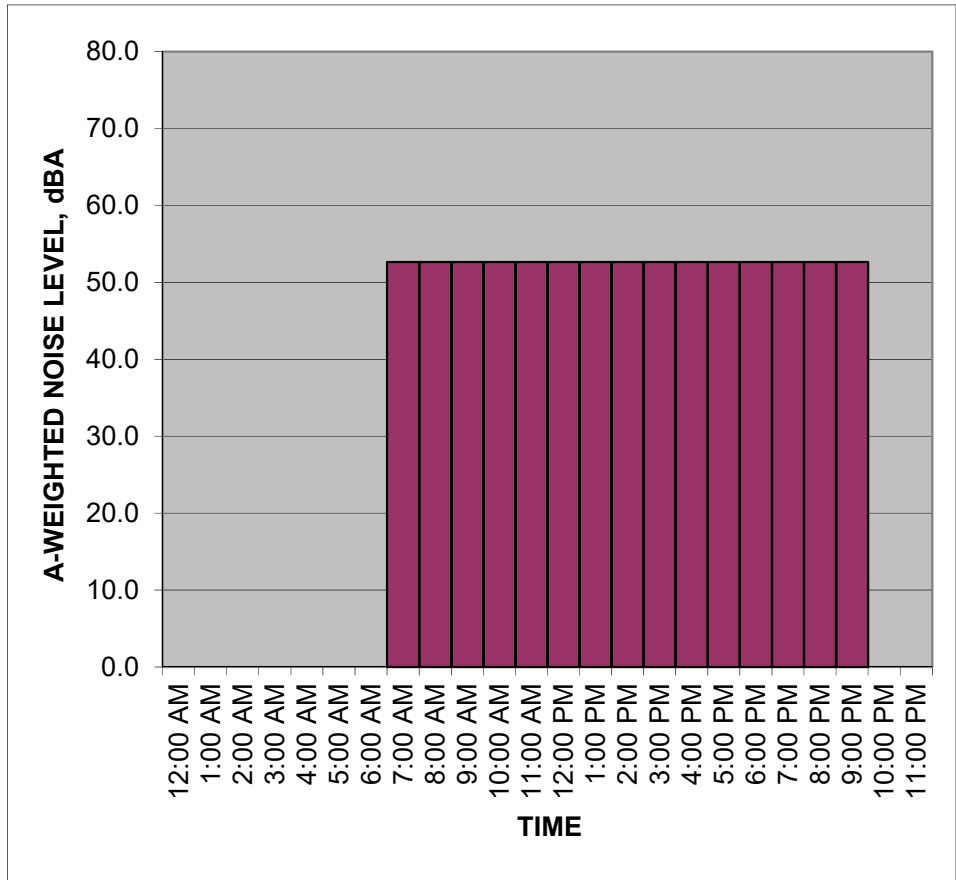


NOTES:

R3

Project: R3
 Location: R3
 Sources: Fitness Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	59.9
8:00 AM	59.9
9:00 AM	59.9
10:00 AM	59.9
11:00 AM	59.9
12:00 PM	59.9
1:00 PM	59.9
2:00 PM	59.9
3:00 PM	59.9
4:00 PM	59.9
5:00 PM	59.9
6:00 PM	59.9
7:00 PM	59.9
8:00 PM	59.9
9:00 PM	59.9
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	61.4

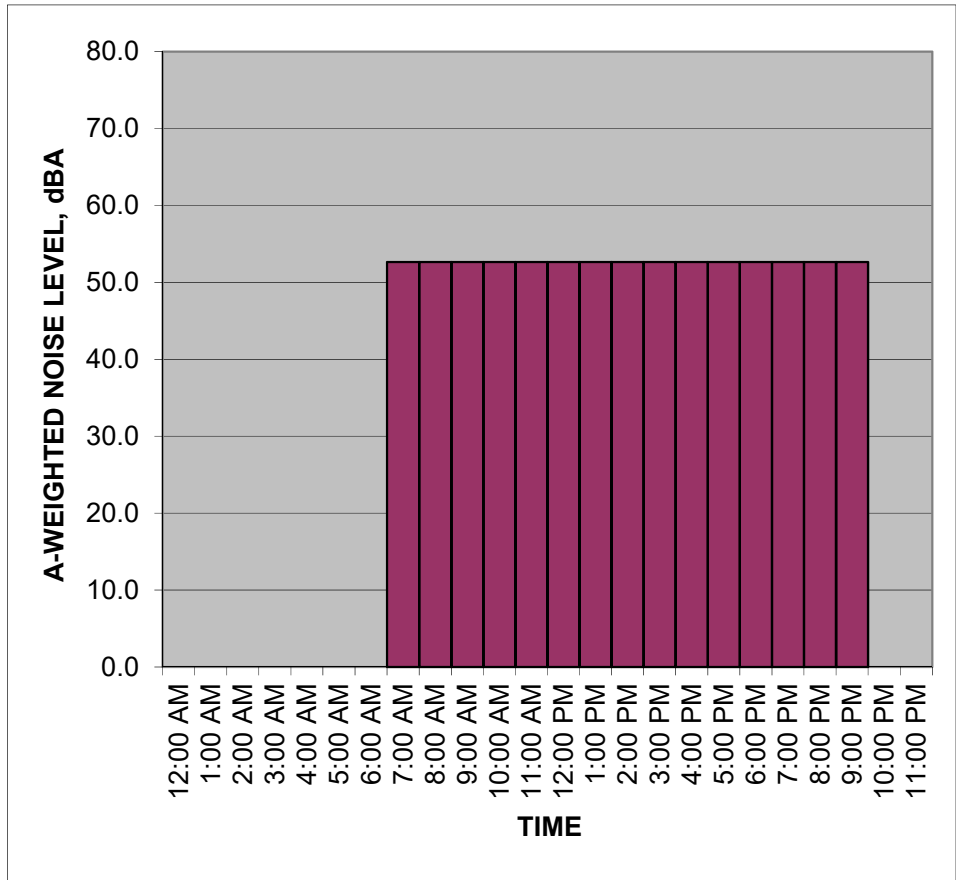


NOTES:

R3

Project: R3
 Location: R3
 Sources: Public Plaza Flex Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	60.1
8:00 AM	60.1
9:00 AM	60.1
10:00 AM	60.1
11:00 AM	60.1
12:00 PM	60.1
1:00 PM	60.1
2:00 PM	60.1
3:00 PM	60.1
4:00 PM	60.1
5:00 PM	60.1
6:00 PM	60.1
7:00 PM	60.1
8:00 PM	60.1
9:00 PM	60.1
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	61.6

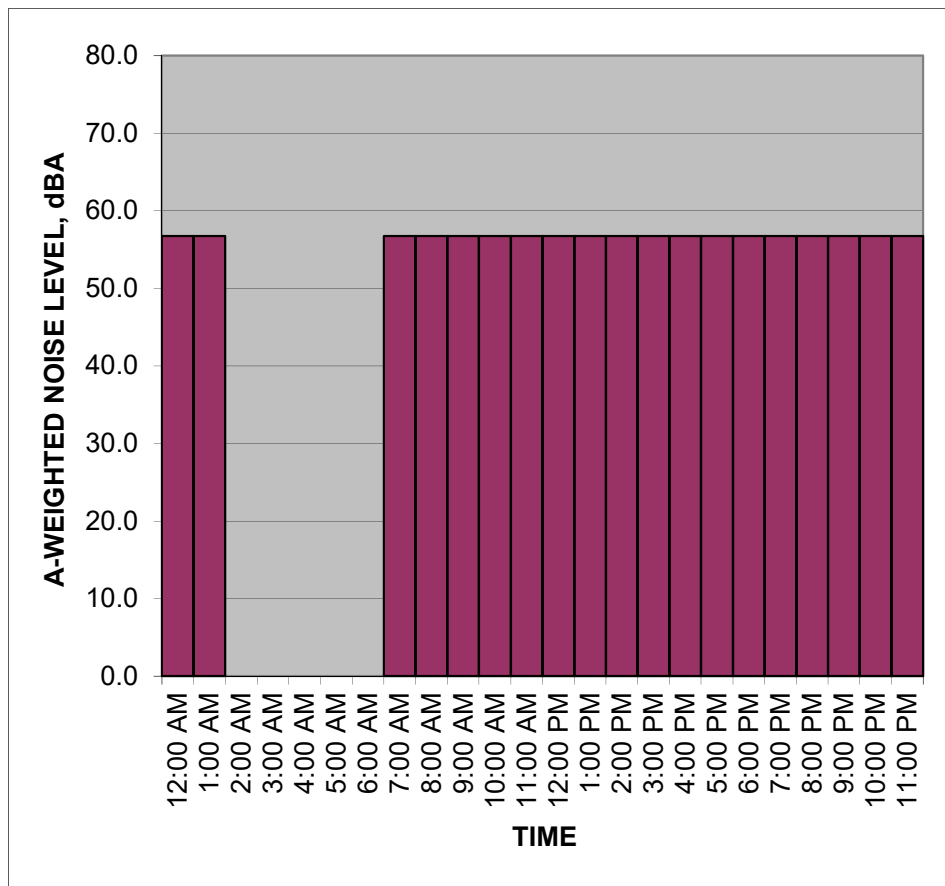


NOTES:

CNEL Calculation

Project: R3
 Location: R3
 Sources: Hotel Pool/Bar

TIME	HNL, dB(A)
12:00 AM	56.7
1:00 AM	56.7
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	56.7
8:00 AM	56.7
9:00 AM	56.7
10:00 AM	56.7
11:00 AM	56.7
12:00 PM	56.7
1:00 PM	56.7
2:00 PM	56.7
3:00 PM	56.7
4:00 PM	56.7
5:00 PM	56.7
6:00 PM	56.7
7:00 PM	56.7
8:00 PM	56.7
9:00 PM	56.7
10:00 PM	56.7
11:00 PM	56.7
CNEL, dB(A):	61.8

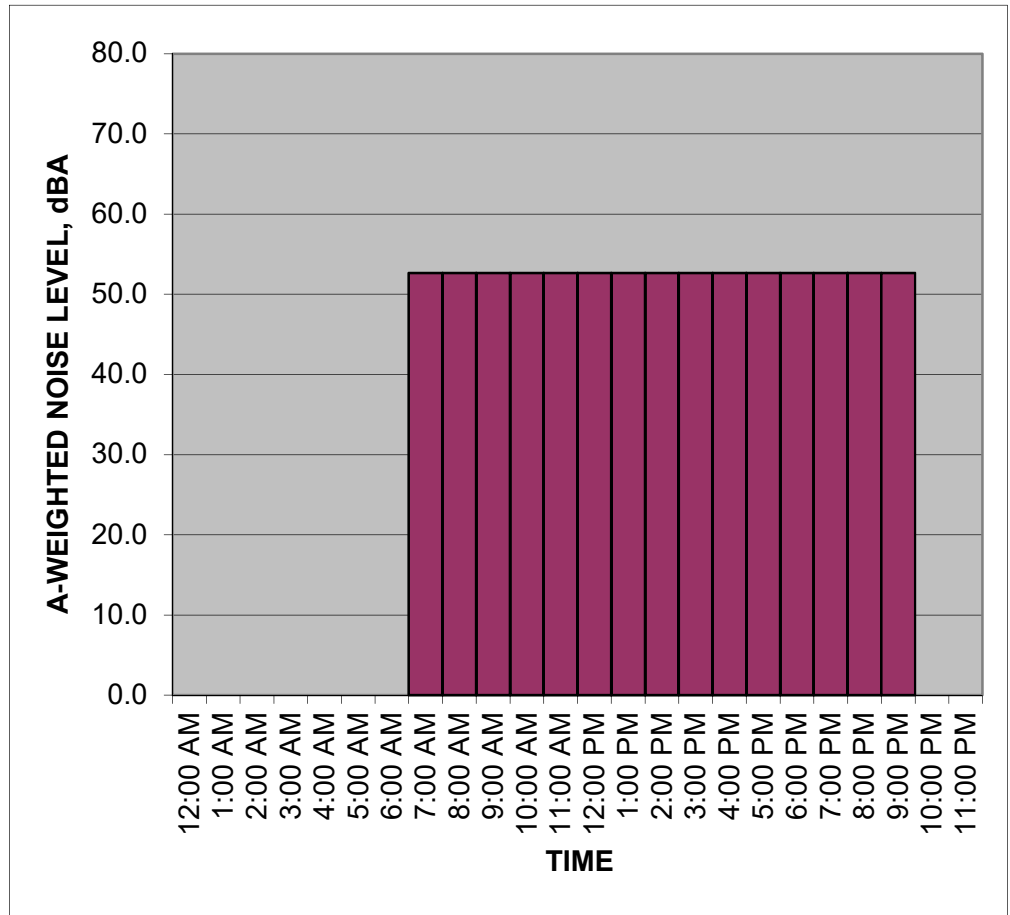


NOTES:

R3

Project: R3
 Location: R3
 Sources: Mesquit Paseo

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	52.6
8:00 AM	52.6
9:00 AM	52.6
10:00 AM	52.6
11:00 AM	52.6
12:00 PM	52.6
1:00 PM	52.6
2:00 PM	52.6
3:00 PM	52.6
4:00 PM	52.6
5:00 PM	52.6
6:00 PM	52.6
7:00 PM	52.6
8:00 PM	52.6
9:00 PM	52.6
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	54.2

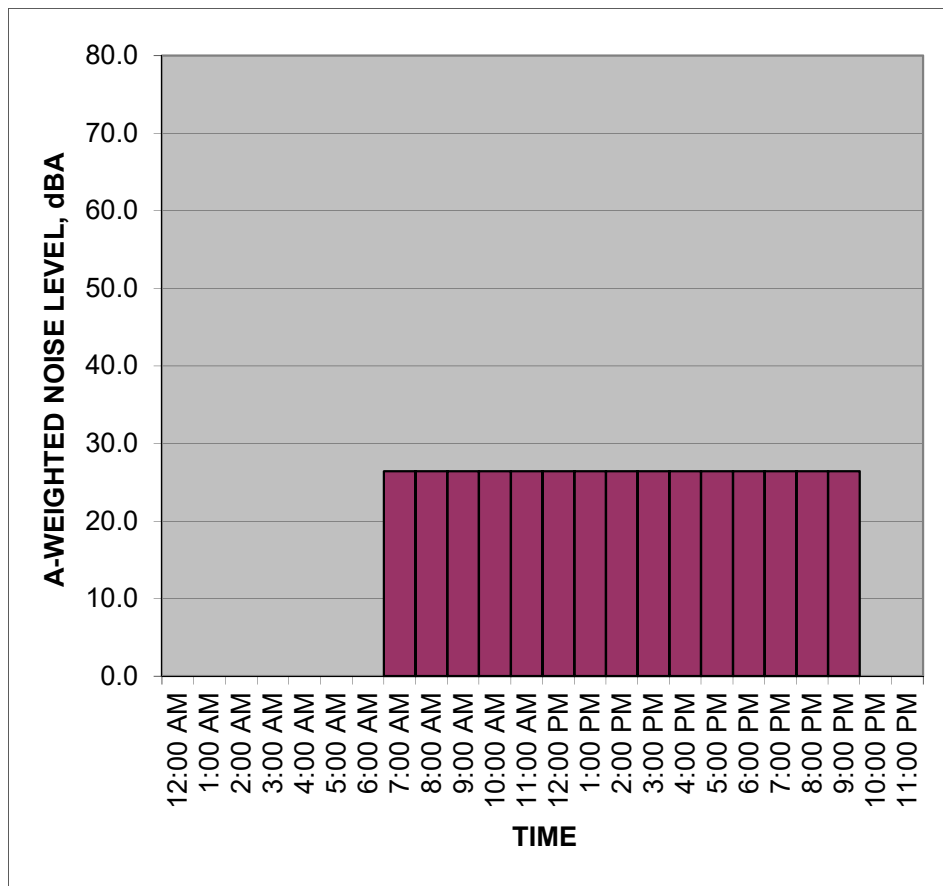


NOTES:

CNEL Calculation

Project: R3
 Location: R3
 Sources: Northern Landscaped Area

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	26.4
8:00 AM	26.4
9:00 AM	26.4
10:00 AM	26.4
11:00 AM	26.4
12:00 PM	26.4
1:00 PM	26.4
2:00 PM	26.4
3:00 PM	26.4
4:00 PM	26.4
5:00 PM	26.4
6:00 PM	26.4
7:00 PM	26.4
8:00 PM	26.4
9:00 PM	26.4
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	28.0

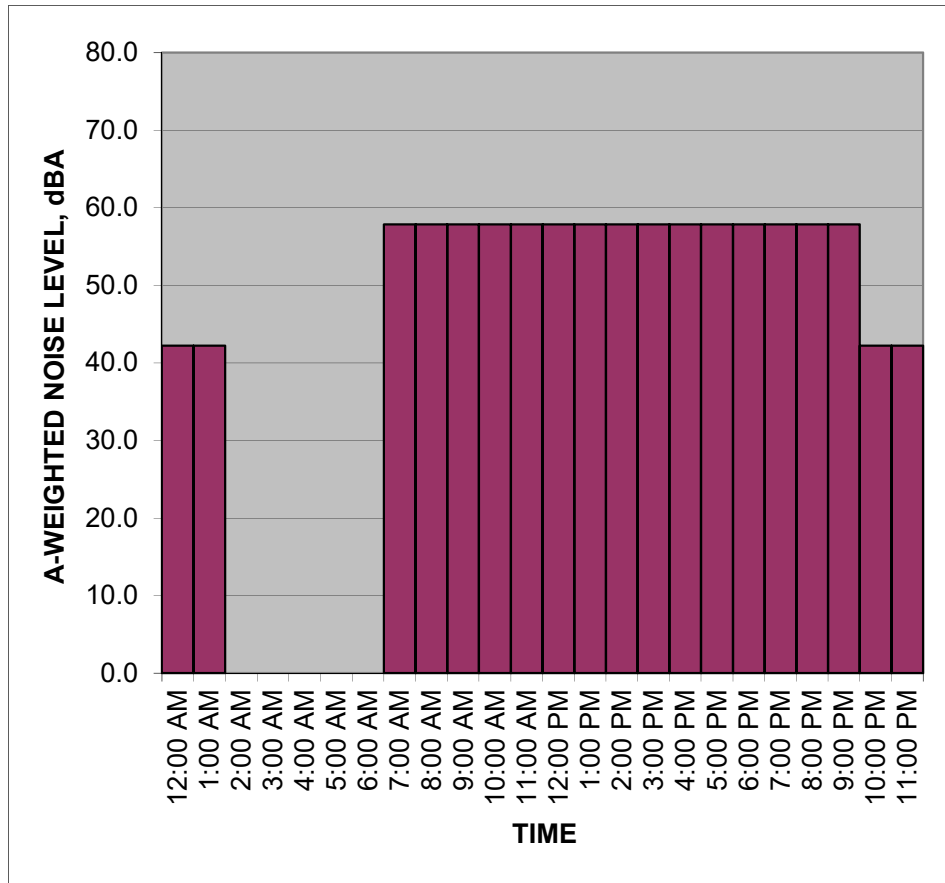


NOTES:

CNEL Calculation

Project: R3
 Location: R3
 Sources: Residential Pool

TIME	HNL, dB(A)
12:00 AM	42.2
1:00 AM	42.2
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	57.9
8:00 AM	57.9
9:00 AM	57.9
10:00 AM	57.9
11:00 AM	57.9
12:00 PM	57.9
1:00 PM	57.9
2:00 PM	57.9
3:00 PM	57.9
4:00 PM	57.9
5:00 PM	57.9
6:00 PM	57.9
7:00 PM	57.9
8:00 PM	57.9
9:00 PM	57.9
10:00 PM	42.2
11:00 PM	42.2
CNEL, dB(A):	58.6

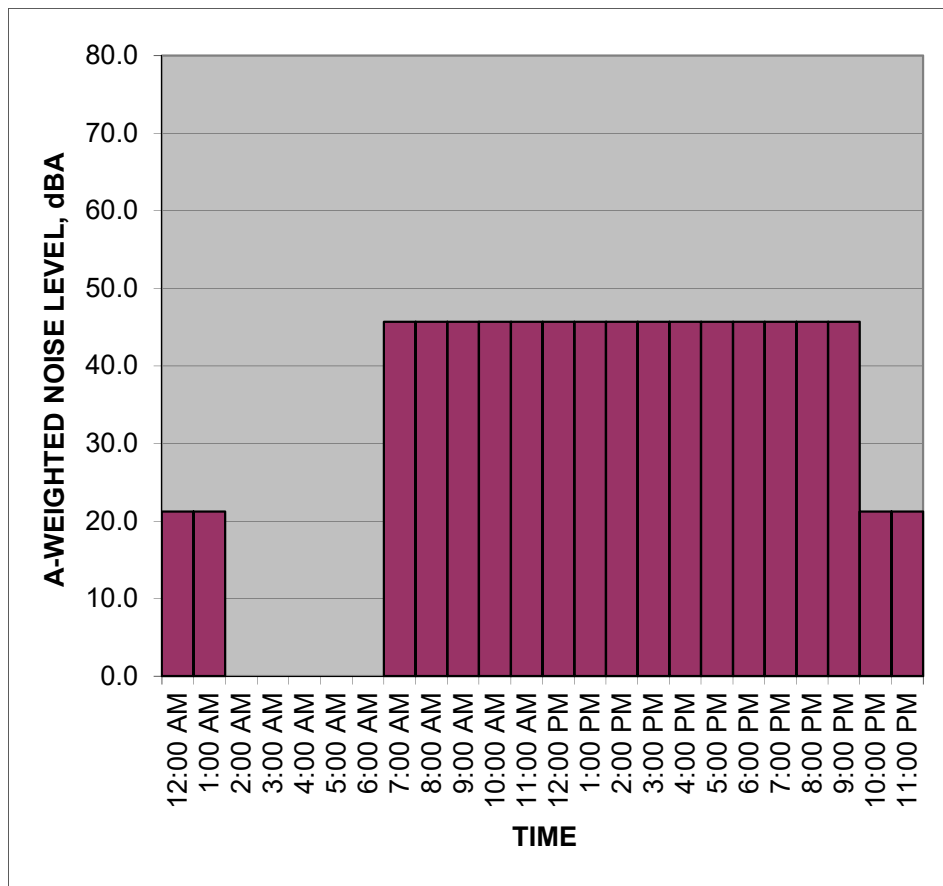


NOTES:

CNEL Calculation

Project: R3
 Location: R3
 Sources: River Balcony N

TIME	HNL, dB(A)
12:00 AM	21.2
1:00 AM	21.2
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	45.7
8:00 AM	45.7
9:00 AM	45.7
10:00 AM	45.7
11:00 AM	45.7
12:00 PM	45.7
1:00 PM	45.7
2:00 PM	45.7
3:00 PM	45.7
4:00 PM	45.7
5:00 PM	45.7
6:00 PM	45.7
7:00 PM	45.7
8:00 PM	45.7
9:00 PM	45.7
10:00 PM	21.2
11:00 PM	21.2
CNEL, dB(A):	46.3

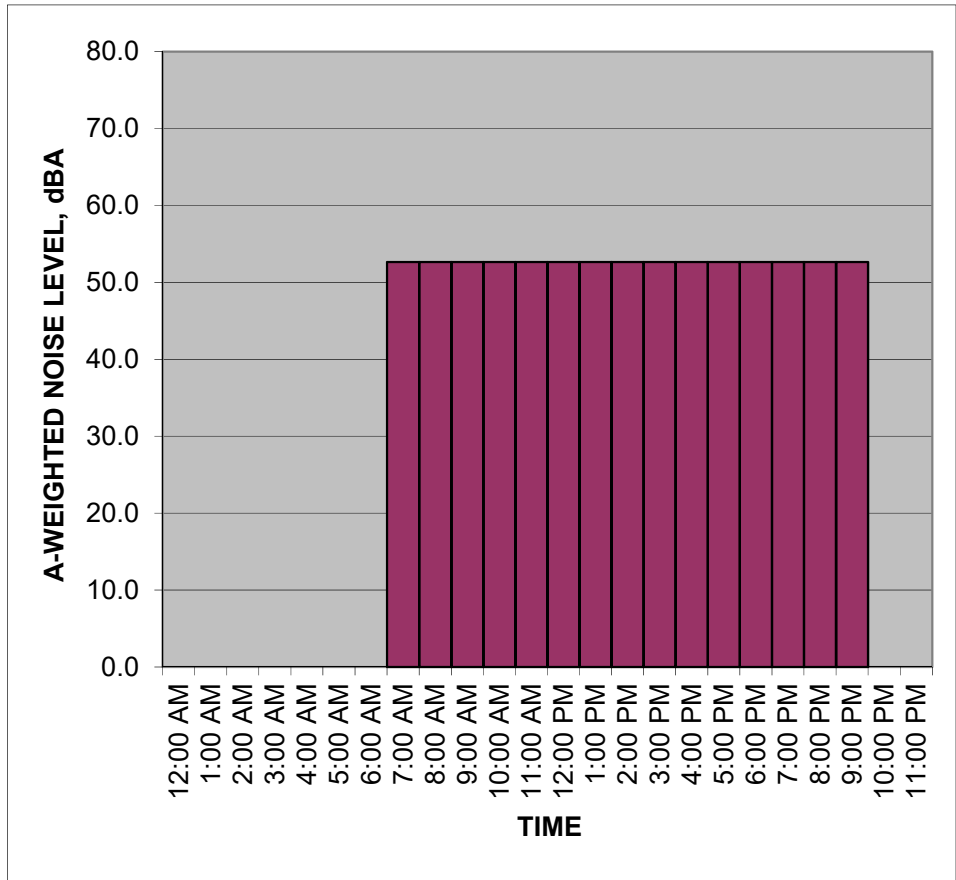


NOTES:

R3

Project: R3
 Location: R3
 Sources: Sculpture Garden

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	59.3
8:00 AM	59.3
9:00 AM	59.3
10:00 AM	59.3
11:00 AM	59.3
12:00 PM	59.3
1:00 PM	59.3
2:00 PM	59.3
3:00 PM	59.3
4:00 PM	59.3
5:00 PM	59.3
6:00 PM	59.3
7:00 PM	59.3
8:00 PM	59.3
9:00 PM	59.3
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	60.9

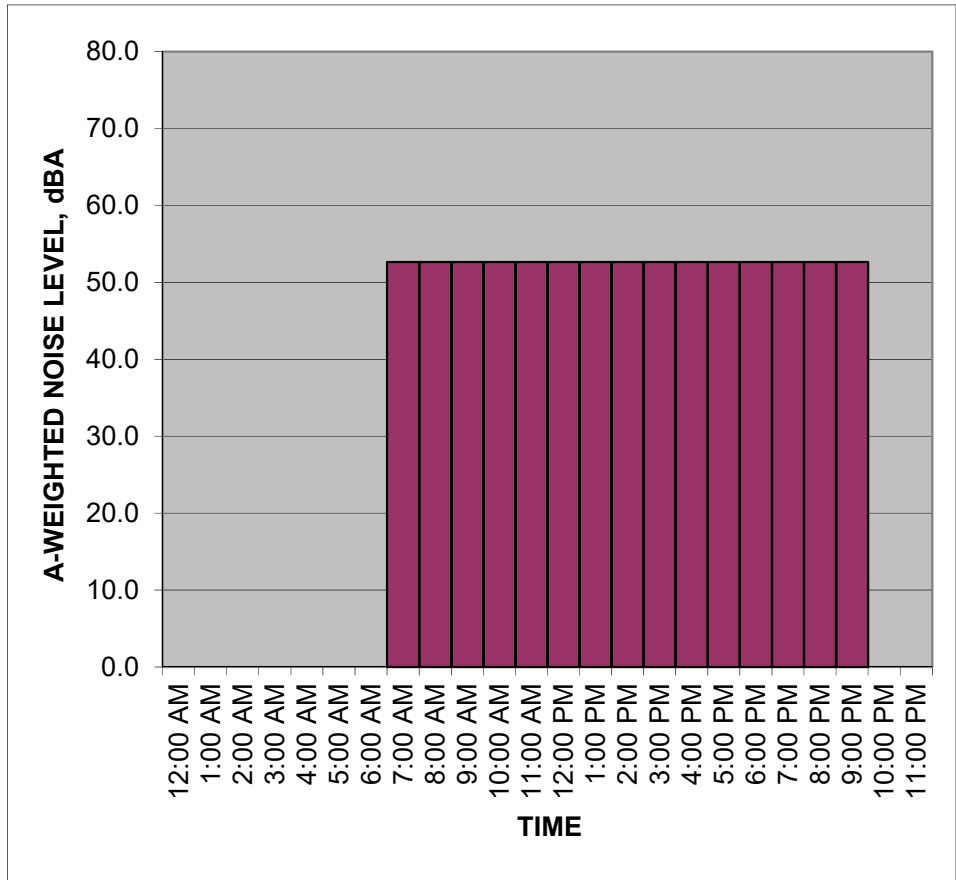


NOTES:

R3

Project: R3
 Location: R3
 Sources: Work Breakout Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	38.1
8:00 AM	38.1
9:00 AM	38.1
10:00 AM	38.1
11:00 AM	38.1
12:00 PM	38.1
1:00 PM	38.1
2:00 PM	38.1
3:00 PM	38.1
4:00 PM	38.1
5:00 PM	38.1
6:00 PM	38.1
7:00 PM	38.1
8:00 PM	38.1
9:00 PM	38.1
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	39.6

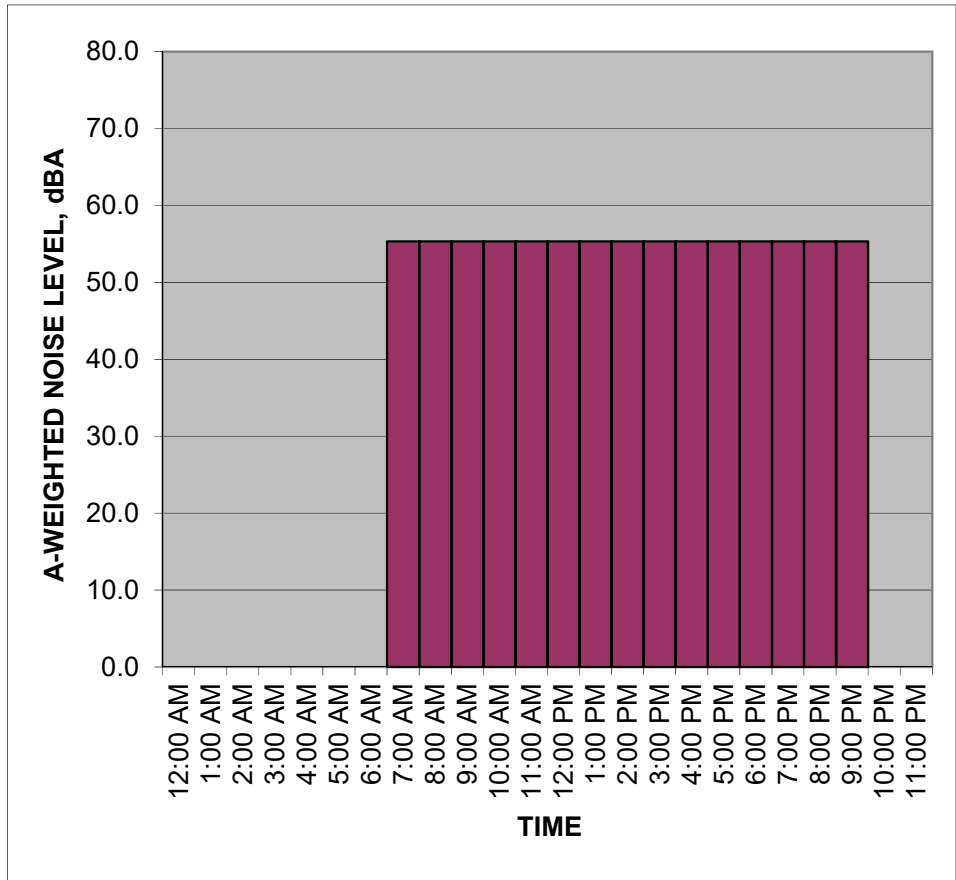


NOTES:

R4

Project: R4
 Location: R4
 Sources: 7th Street Terrace

TIME	HNL, dB(A)
12:00 AM	40.1
1:00 AM	40.1
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	40.1
8:00 AM	40.1
9:00 AM	40.1
10:00 AM	40.1
11:00 AM	40.1
12:00 PM	40.1
1:00 PM	40.1
2:00 PM	40.1
3:00 PM	40.1
4:00 PM	40.1
5:00 PM	40.1
6:00 PM	40.1
7:00 PM	40.1
8:00 PM	40.1
9:00 PM	40.1
10:00 PM	40.1
11:00 PM	40.1
CNEL, dB(A):	45.2

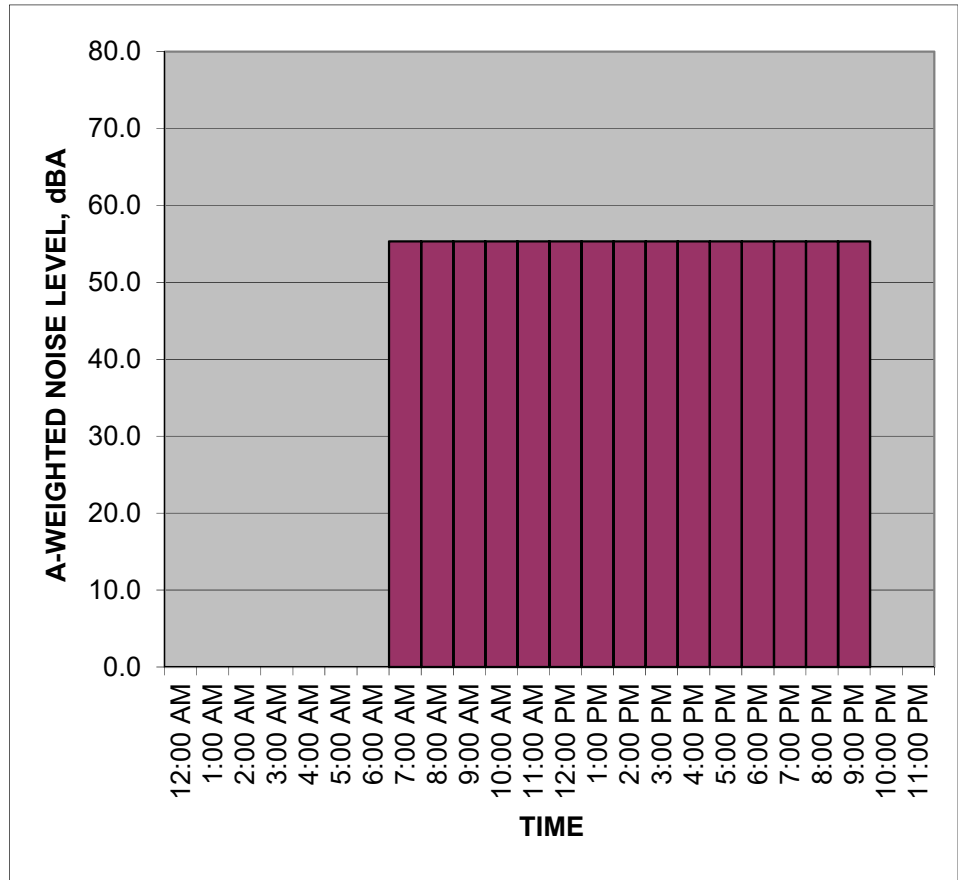


NOTES:

R4

Project: R4
 Location: R4
 Sources: Deck

TIME	HNL, dB(A)
12:00 AM	49.4
1:00 AM	49.4
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	49.4
8:00 AM	49.4
9:00 AM	49.4
10:00 AM	49.4
11:00 AM	49.4
12:00 PM	49.4
1:00 PM	49.4
2:00 PM	49.4
3:00 PM	49.4
4:00 PM	49.4
5:00 PM	49.4
6:00 PM	49.4
7:00 PM	49.4
8:00 PM	49.4
9:00 PM	49.4
10:00 PM	49.4
11:00 PM	49.4
CNEL, dB(A):	54.5

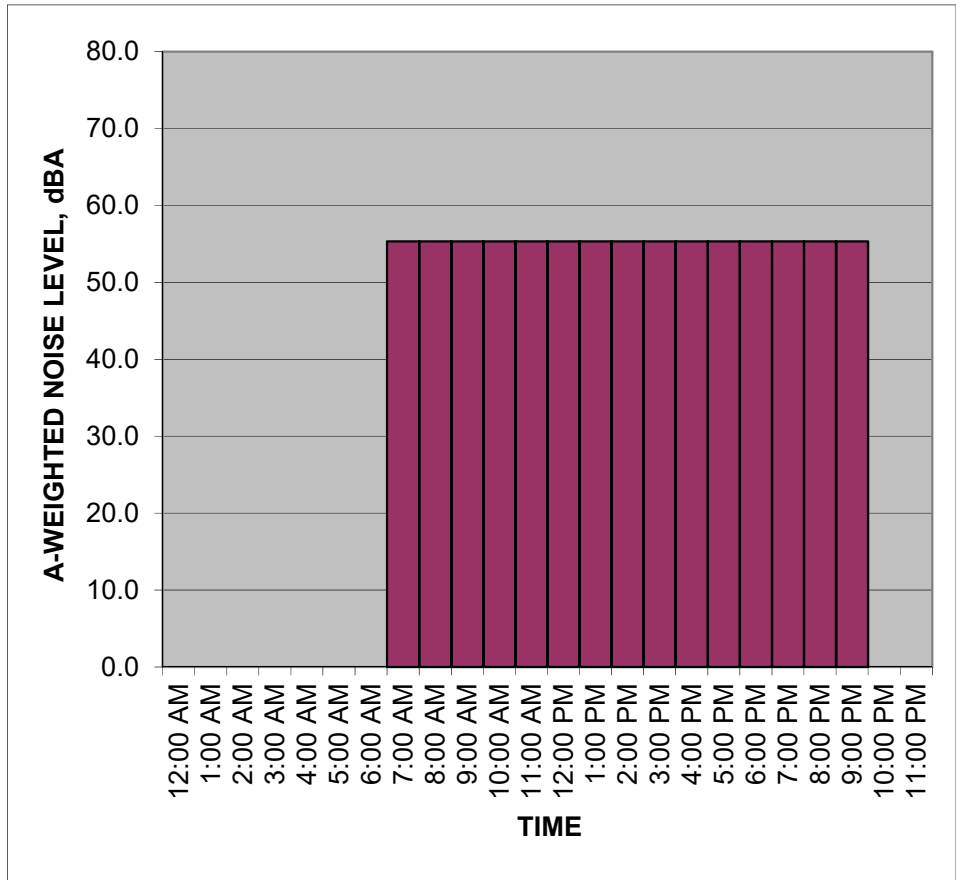


NOTES:

R4

Project: R4
 Location: R4
 Sources: Fitness Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	41.9
8:00 AM	41.9
9:00 AM	41.9
10:00 AM	41.9
11:00 AM	41.9
12:00 PM	41.9
1:00 PM	41.9
2:00 PM	41.9
3:00 PM	41.9
4:00 PM	41.9
5:00 PM	41.9
6:00 PM	41.9
7:00 PM	41.9
8:00 PM	41.9
9:00 PM	41.9
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	43.5

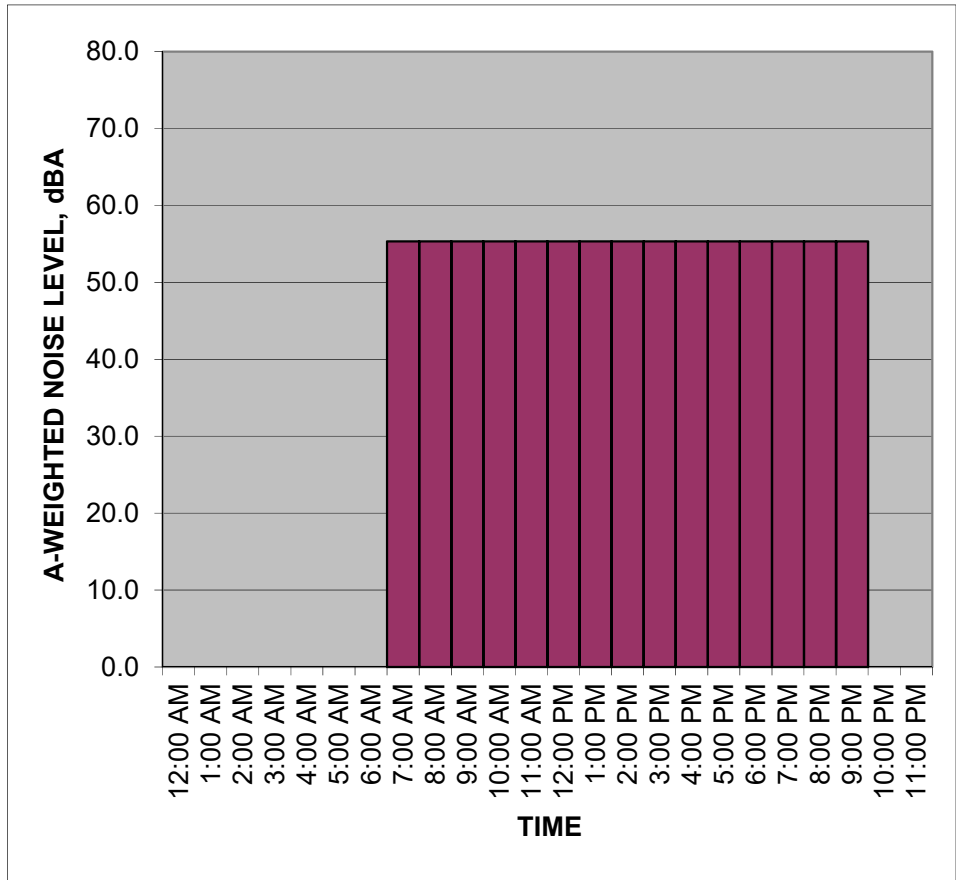


NOTES:

R4

Project: R4
 Location: R4
 Sources: Public Plaza Flex Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	40.9
8:00 AM	40.9
9:00 AM	40.9
10:00 AM	40.9
11:00 AM	40.9
12:00 PM	40.9
1:00 PM	40.9
2:00 PM	40.9
3:00 PM	40.9
4:00 PM	40.9
5:00 PM	40.9
6:00 PM	40.9
7:00 PM	40.9
8:00 PM	40.9
9:00 PM	40.9
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	42.5

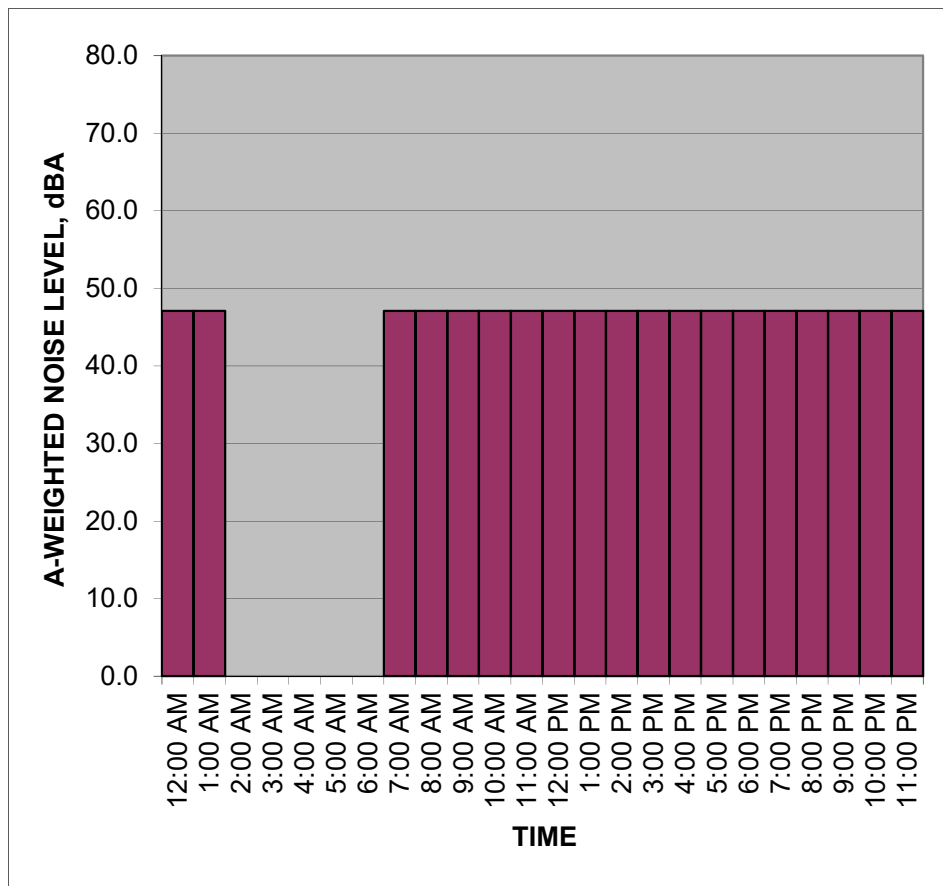


NOTES:

CNEL Calculation

Project: R4
 Location: R4
 Sources: Hotel Pool/Bar

TIME	HNL, dB(A)
12:00 AM	47.1
1:00 AM	47.1
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	47.1
8:00 AM	47.1
9:00 AM	47.1
10:00 AM	47.1
11:00 AM	47.1
12:00 PM	47.1
1:00 PM	47.1
2:00 PM	47.1
3:00 PM	47.1
4:00 PM	47.1
5:00 PM	47.1
6:00 PM	47.1
7:00 PM	47.1
8:00 PM	47.1
9:00 PM	47.1
10:00 PM	47.1
11:00 PM	47.1
CNEL, dB(A):	52.2

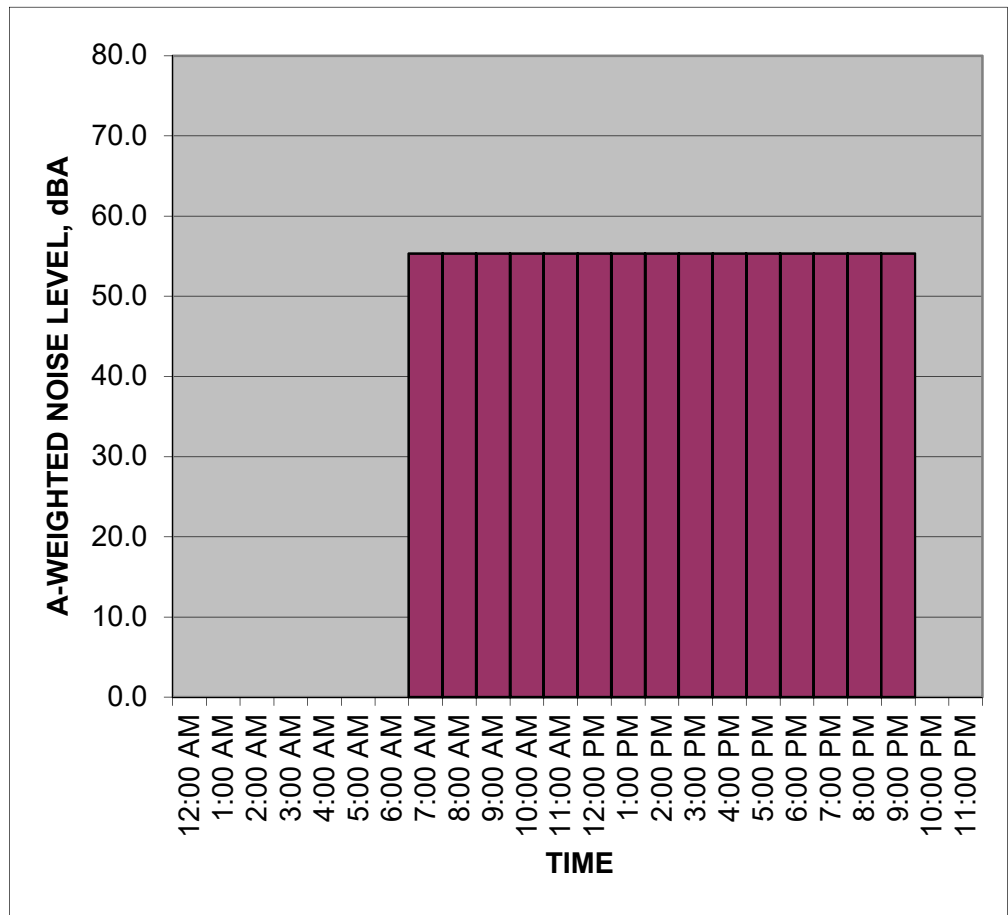


NOTES:

R4

Project: R4
 Location: R4
 Sources: Mesquit Paseo

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	55.3
8:00 AM	55.3
9:00 AM	55.3
10:00 AM	55.3
11:00 AM	55.3
12:00 PM	55.3
1:00 PM	55.3
2:00 PM	55.3
3:00 PM	55.3
4:00 PM	55.3
5:00 PM	55.3
6:00 PM	55.3
7:00 PM	55.3
8:00 PM	55.3
9:00 PM	55.3
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	56.9

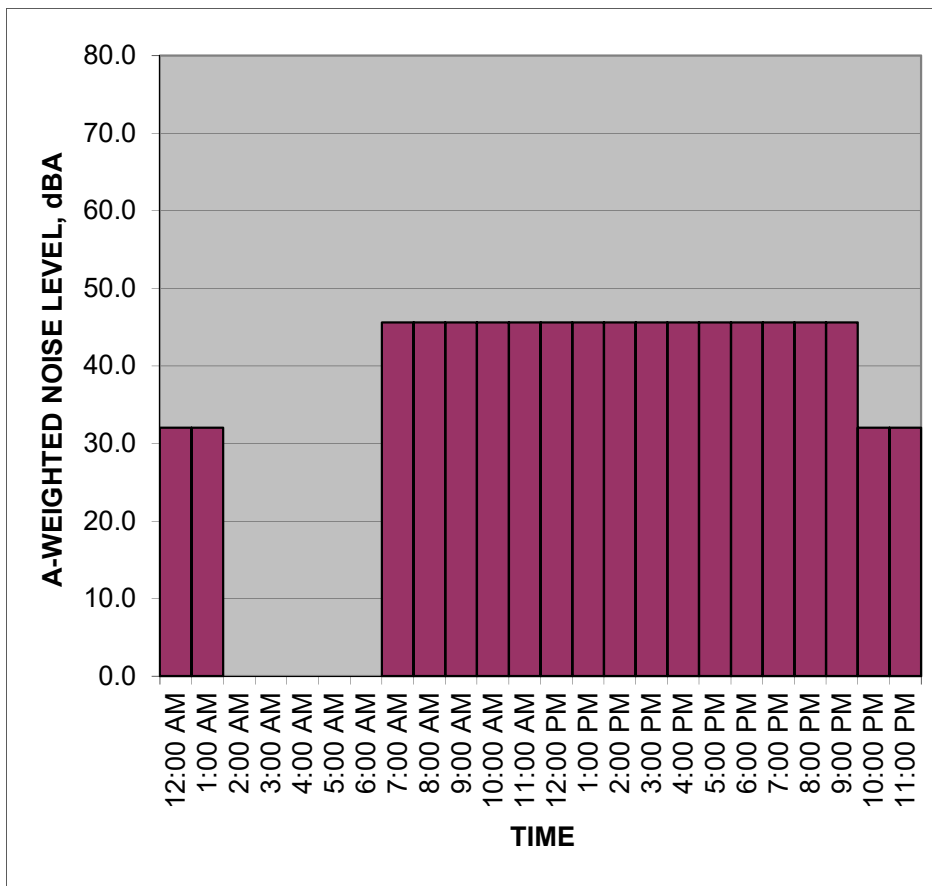


NOTES:

CNEL Calculation

Project: R4
 Location: R4
 Sources: Residential Pool

TIME	HNL, dB(A)
12:00 AM	32.0
1:00 AM	32.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	45.6
8:00 AM	45.6
9:00 AM	45.6
10:00 AM	45.6
11:00 AM	45.6
12:00 PM	45.6
1:00 PM	45.6
2:00 PM	45.6
3:00 PM	45.6
4:00 PM	45.6
5:00 PM	45.6
6:00 PM	45.6
7:00 PM	45.6
8:00 PM	45.6
9:00 PM	45.6
10:00 PM	32.0
11:00 PM	32.0
CNEL, dB(A):	46.5

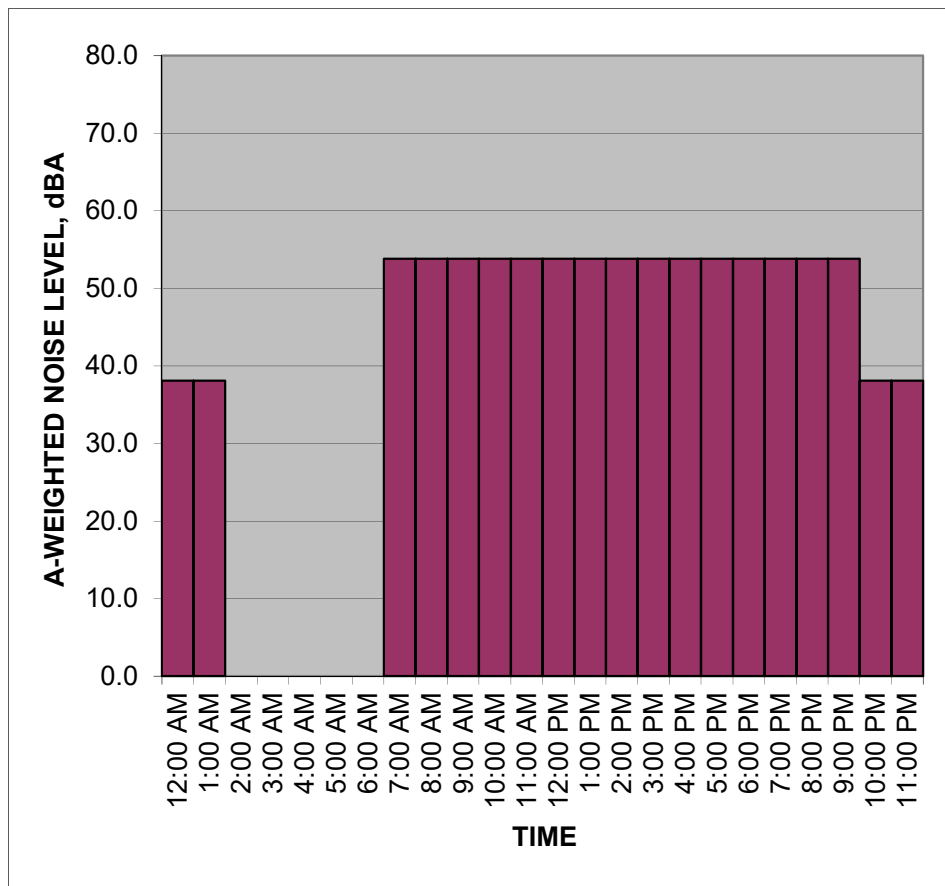


NOTES:

CNEL Calculation

Project: R4
 Location: R4
 Sources: River Balcony N

TIME	HNL, dB(A)
12:00 AM	38.1
1:00 AM	38.1
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	53.8
8:00 AM	53.8
9:00 AM	53.8
10:00 AM	53.8
11:00 AM	53.8
12:00 PM	53.8
1:00 PM	53.8
2:00 PM	53.8
3:00 PM	53.8
4:00 PM	53.8
5:00 PM	53.8
6:00 PM	53.8
7:00 PM	53.8
8:00 PM	53.8
9:00 PM	53.8
10:00 PM	38.1
11:00 PM	38.1
CNEL, dB(A):	54.5

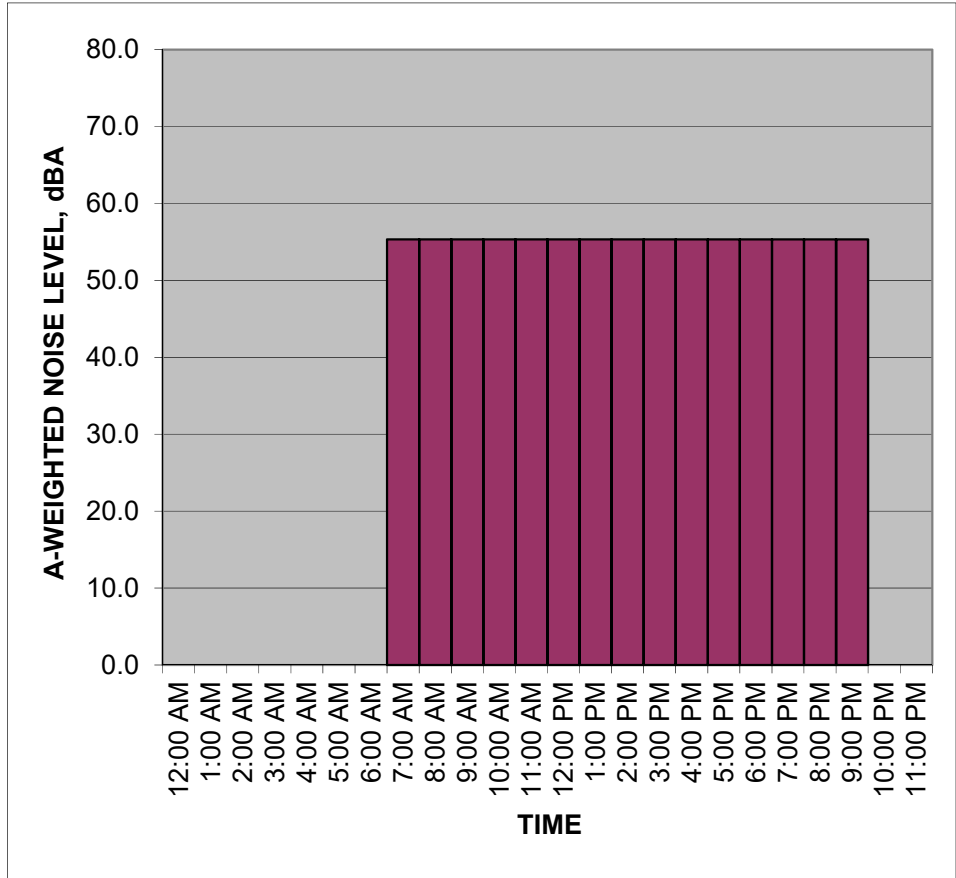


NOTES:

R4

Project: R4
 Location: R4
 Sources: River Balcony South

TIME	HNL, dB(A)
12:00 AM	12.0
1:00 AM	12.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	40.8
8:00 AM	40.8
9:00 AM	40.8
10:00 AM	40.8
11:00 AM	40.8
12:00 PM	40.8
1:00 PM	40.8
2:00 PM	40.8
3:00 PM	40.8
4:00 PM	40.8
5:00 PM	40.8
6:00 PM	40.8
7:00 PM	40.8
8:00 PM	40.8
9:00 PM	40.8
10:00 PM	12.0
11:00 PM	12.0
CNEL, dB(A):	41.4

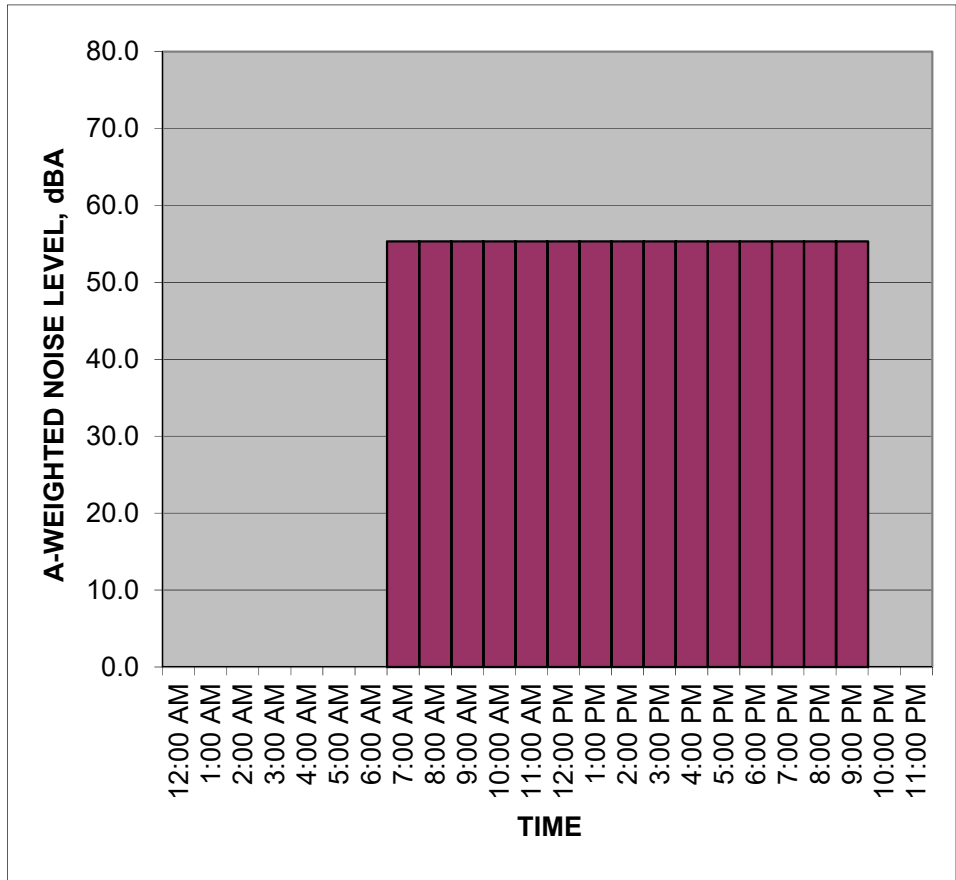


NOTES:

R4

Project: R4
 Location: R4
 Sources: Sculpture Garden

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	43.1
8:00 AM	43.1
9:00 AM	43.1
10:00 AM	43.1
11:00 AM	43.1
12:00 PM	43.1
1:00 PM	43.1
2:00 PM	43.1
3:00 PM	43.1
4:00 PM	43.1
5:00 PM	43.1
6:00 PM	43.1
7:00 PM	43.1
8:00 PM	43.1
9:00 PM	43.1
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	44.6

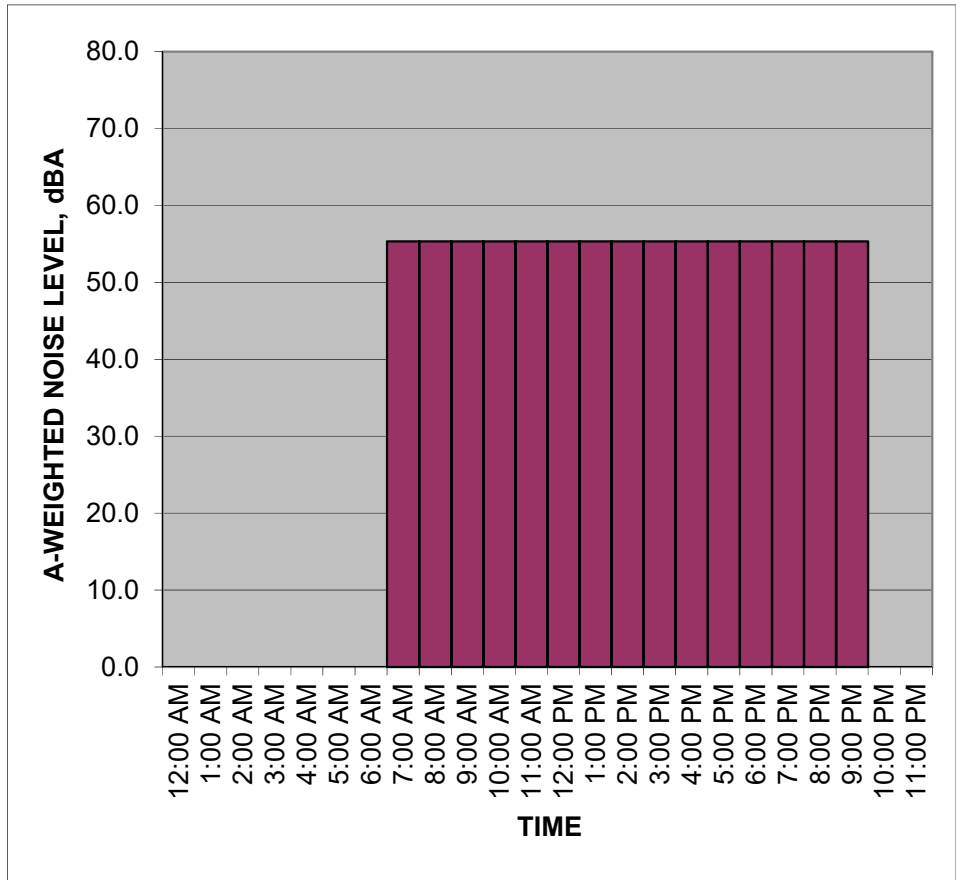


NOTES:

R4

Project: R4
 Location: R4
 Sources: Work Breakout Deck

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	24.0
8:00 AM	24.0
9:00 AM	24.0
10:00 AM	24.0
11:00 AM	24.0
12:00 PM	24.0
1:00 PM	24.0
2:00 PM	24.0
3:00 PM	24.0
4:00 PM	24.0
5:00 PM	24.0
6:00 PM	24.0
7:00 PM	24.0
8:00 PM	24.0
9:00 PM	24.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	25.5



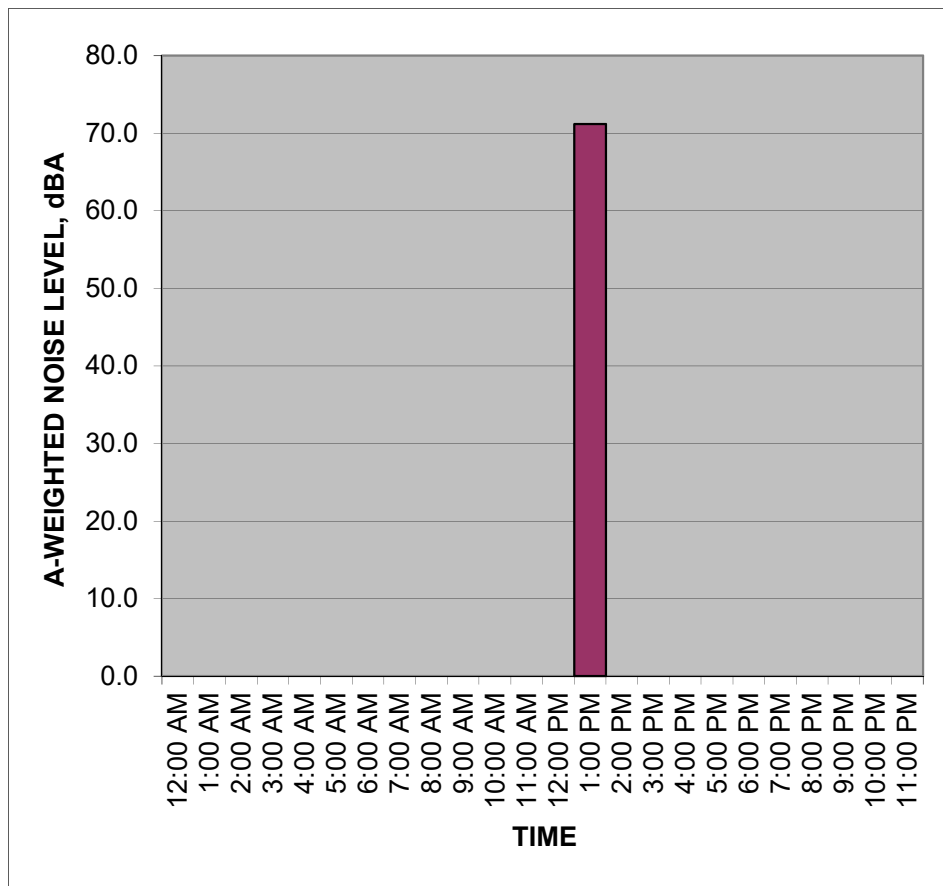
NOTES:

Project Operations CNEI

CNEL Calculation

Project:
 Location: R1
 Sources: Emergency Generator

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	0.0
8:00 AM	0.0
9:00 AM	0.0
10:00 AM	0.0
11:00 AM	0.0
12:00 PM	0.0
1:00 PM	71.2
2:00 PM	0.0
3:00 PM	0.0
4:00 PM	0.0
5:00 PM	0.0
6:00 PM	0.0
7:00 PM	0.0
8:00 PM	0.0
9:00 PM	0.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	71.2

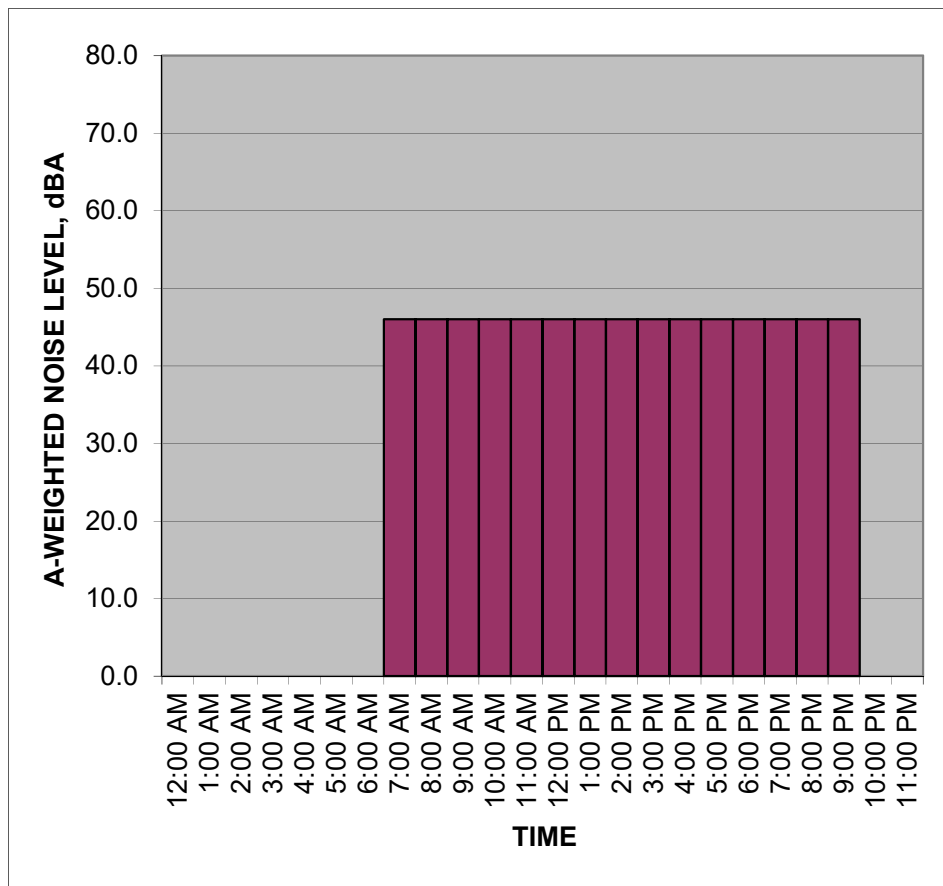


NOTES:

CNEL Calculation

Project:
 Location: R1
 Sources: Loading Dock and Trash Collection Areas

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	46.0
8:00 AM	46.0
9:00 AM	46.0
10:00 AM	46.0
11:00 AM	46.0
12:00 PM	46.0
1:00 PM	46.0
2:00 PM	46.0
3:00 PM	46.0
4:00 PM	46.0
5:00 PM	46.0
6:00 PM	46.0
7:00 PM	46.0
8:00 PM	46.0
9:00 PM	46.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	47.6

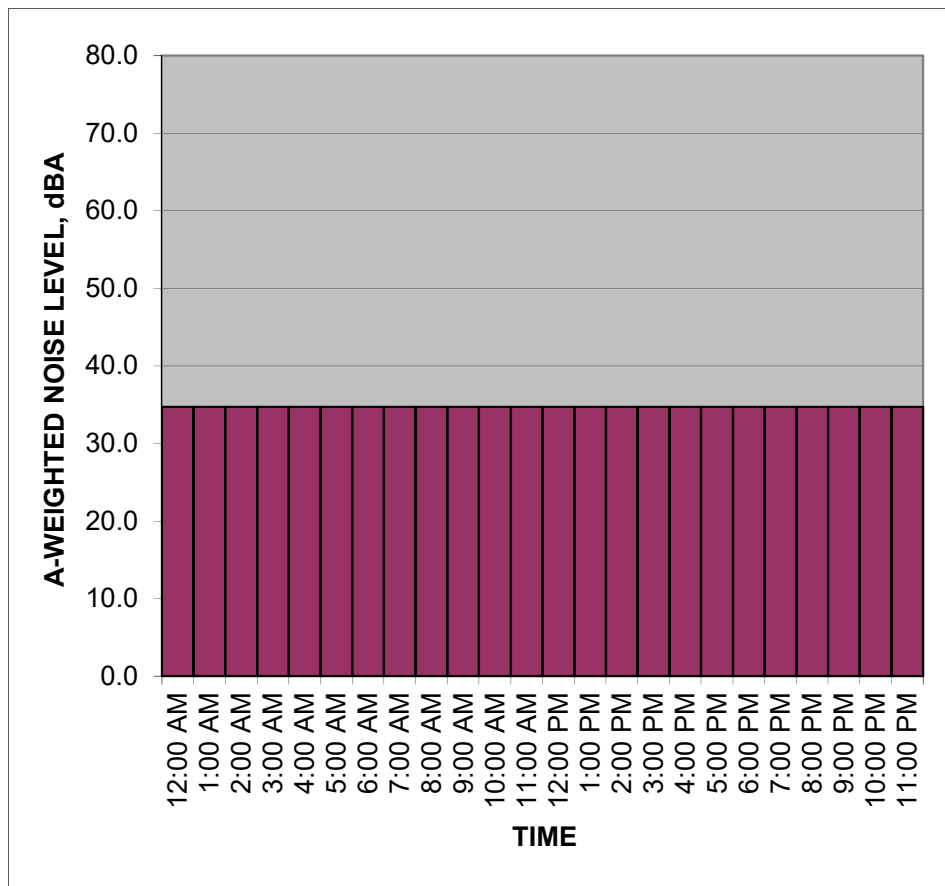


NOTES:

CNEL Calculation

Project:
 Location: R1
 Sources: Mechanical Equipment

TIME	HNL, dB(A)
12:00 AM	34.7
1:00 AM	34.7
2:00 AM	34.7
3:00 AM	34.7
4:00 AM	34.7
5:00 AM	34.7
6:00 AM	34.7
7:00 AM	34.7
8:00 AM	34.7
9:00 AM	34.7
10:00 AM	34.7
11:00 AM	34.7
12:00 PM	34.7
1:00 PM	34.7
2:00 PM	34.7
3:00 PM	34.7
4:00 PM	34.7
5:00 PM	34.7
6:00 PM	34.7
7:00 PM	34.7
8:00 PM	34.7
9:00 PM	34.7
10:00 PM	34.7
11:00 PM	34.7
CNEL, dB(A):	41.4

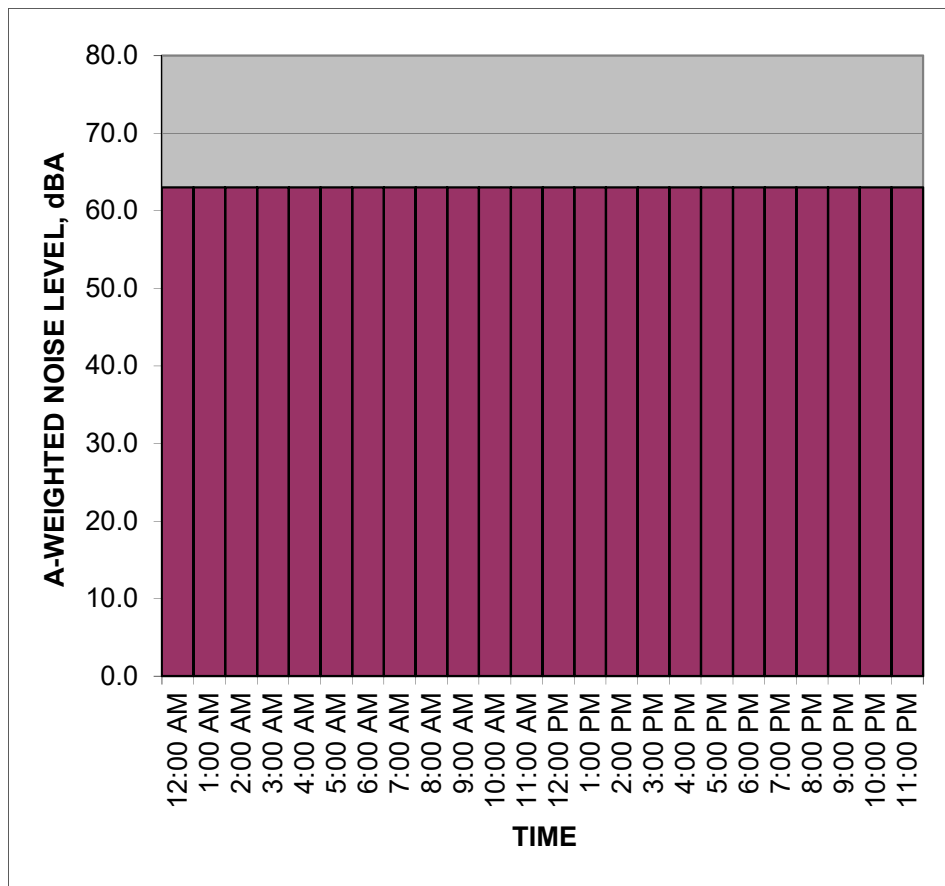


NOTES:

CNEL Calculation

Project:
 Location: R1
 Sources: Parking Activities

TIME	HNL, dB(A)
12:00 AM	63.0
1:00 AM	63.0
2:00 AM	63.0
3:00 AM	63.0
4:00 AM	63.0
5:00 AM	63.0
6:00 AM	63.0
7:00 AM	63.0
8:00 AM	63.0
9:00 AM	63.0
10:00 AM	63.0
11:00 AM	63.0
12:00 PM	63.0
1:00 PM	63.0
2:00 PM	63.0
3:00 PM	63.0
4:00 PM	63.0
5:00 PM	63.0
6:00 PM	63.0
7:00 PM	63.0
8:00 PM	63.0
9:00 PM	63.0
10:00 PM	63.0
11:00 PM	63.0
CNEL, dB(A):	69.7

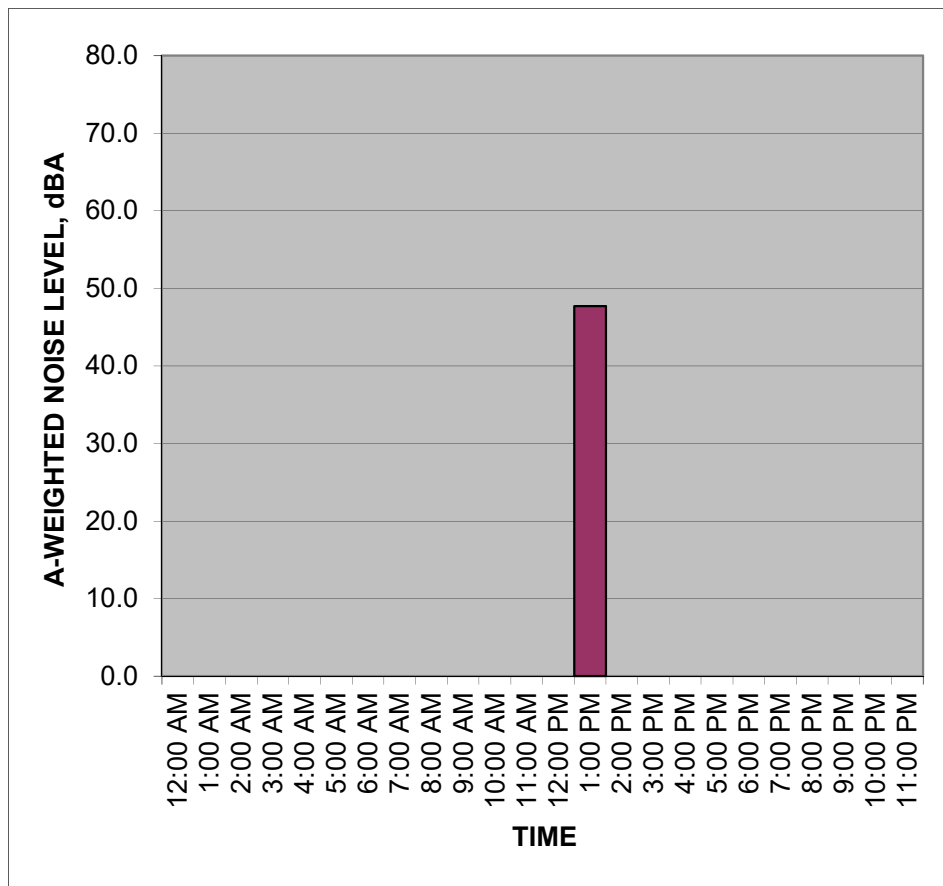


NOTES:

CNEL Calculation

Project:
 Location: R2
 Sources: Emergency Generator

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	0.0
8:00 AM	0.0
9:00 AM	0.0
10:00 AM	0.0
11:00 AM	0.0
12:00 PM	0.0
1:00 PM	47.7
2:00 PM	0.0
3:00 PM	0.0
4:00 PM	0.0
5:00 PM	0.0
6:00 PM	0.0
7:00 PM	0.0
8:00 PM	0.0
9:00 PM	0.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	47.7

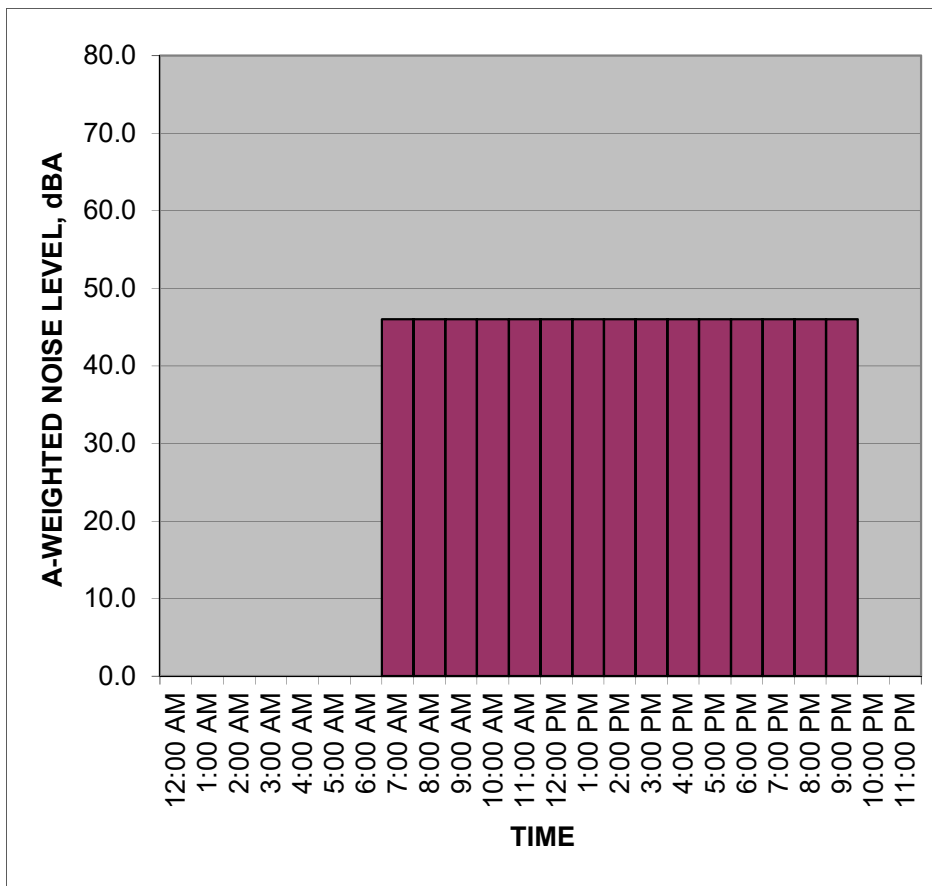


NOTES:

CNEL Calculation

Project:
 Location: R2
 Sources: Loading Dock and Trash Collection Areas

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	46.0
8:00 AM	46.0
9:00 AM	46.0
10:00 AM	46.0
11:00 AM	46.0
12:00 PM	46.0
1:00 PM	46.0
2:00 PM	46.0
3:00 PM	46.0
4:00 PM	46.0
5:00 PM	46.0
6:00 PM	46.0
7:00 PM	46.0
8:00 PM	46.0
9:00 PM	46.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	47.6

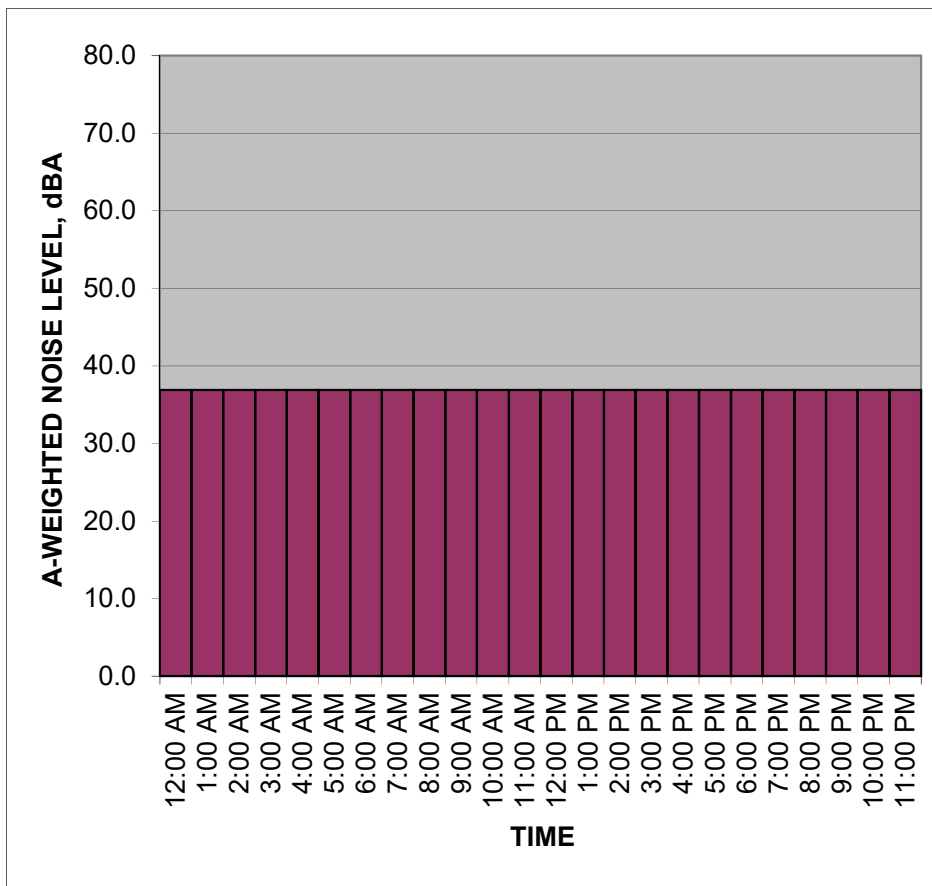


NOTES:

CNEL Calculation

Project:
 Location: R2
 Sources: Mechanical Equipment

TIME	HNL, dB(A)
12:00 AM	36.9
1:00 AM	36.9
2:00 AM	36.9
3:00 AM	36.9
4:00 AM	36.9
5:00 AM	36.9
6:00 AM	36.9
7:00 AM	36.9
8:00 AM	36.9
9:00 AM	36.9
10:00 AM	36.9
11:00 AM	36.9
12:00 PM	36.9
1:00 PM	36.9
2:00 PM	36.9
3:00 PM	36.9
4:00 PM	36.9
5:00 PM	36.9
6:00 PM	36.9
7:00 PM	36.9
8:00 PM	36.9
9:00 PM	36.9
10:00 PM	36.9
11:00 PM	36.9
CNEL, dB(A):	43.6

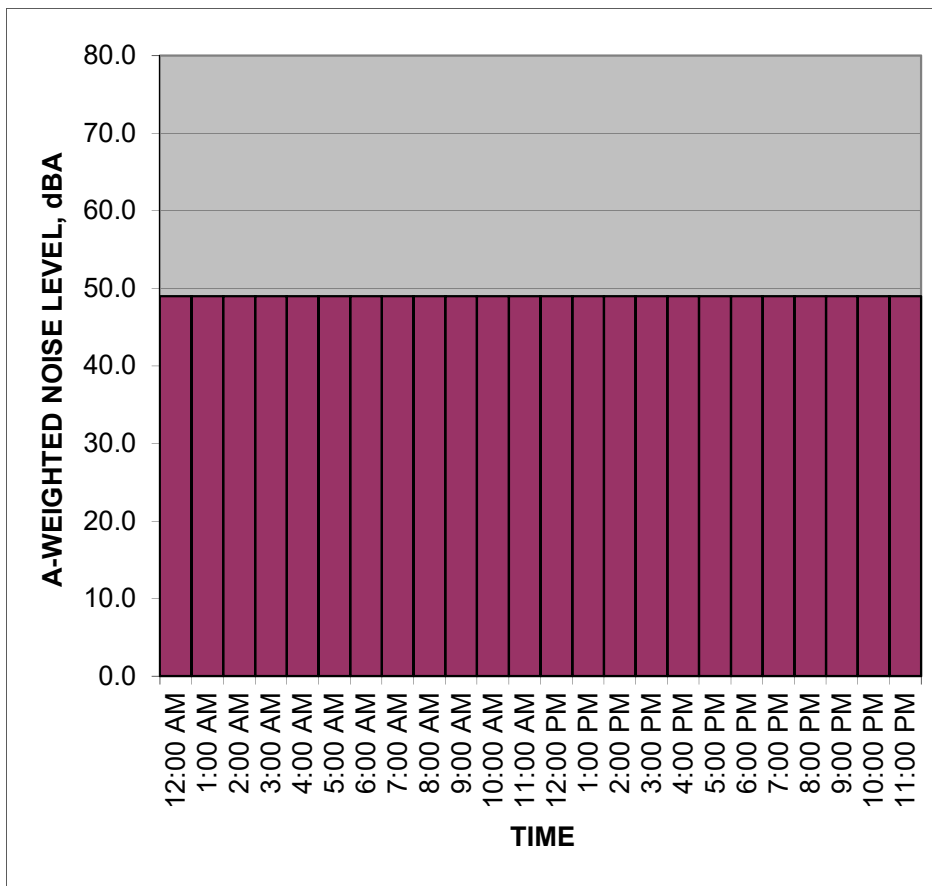


NOTES:

CNEL Calculation

Project:
 Location: R2
 Sources: Parking Activities

TIME	HNL, dB(A)
12:00 AM	49.0
1:00 AM	49.0
2:00 AM	49.0
3:00 AM	49.0
4:00 AM	49.0
5:00 AM	49.0
6:00 AM	49.0
7:00 AM	49.0
8:00 AM	49.0
9:00 AM	49.0
10:00 AM	49.0
11:00 AM	49.0
12:00 PM	49.0
1:00 PM	49.0
2:00 PM	49.0
3:00 PM	49.0
4:00 PM	49.0
5:00 PM	49.0
6:00 PM	49.0
7:00 PM	49.0
8:00 PM	49.0
9:00 PM	49.0
10:00 PM	49.0
11:00 PM	49.0
CNEL, dB(A):	55.7

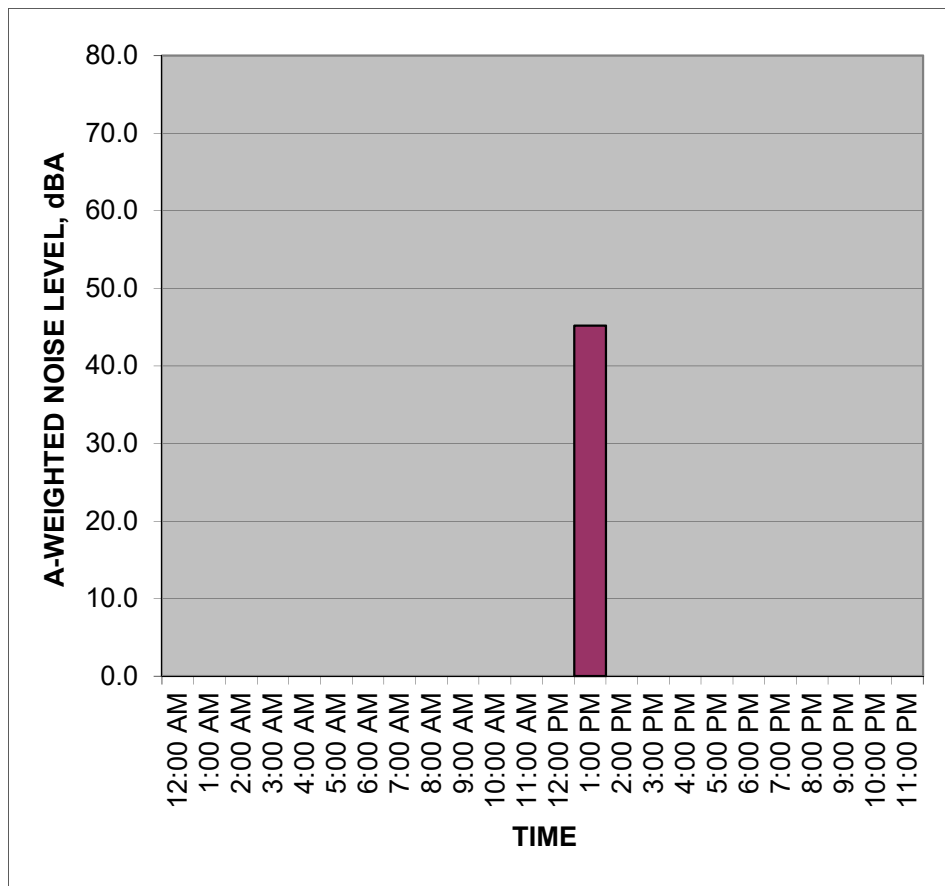


NOTES:

CNEL Calculation

Project:
 Location: R3
 Sources: Emergency Generator

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	0.0
8:00 AM	0.0
9:00 AM	0.0
10:00 AM	0.0
11:00 AM	0.0
12:00 PM	0.0
1:00 PM	45.2
2:00 PM	0.0
3:00 PM	0.0
4:00 PM	0.0
5:00 PM	0.0
6:00 PM	0.0
7:00 PM	0.0
8:00 PM	0.0
9:00 PM	0.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	45.2

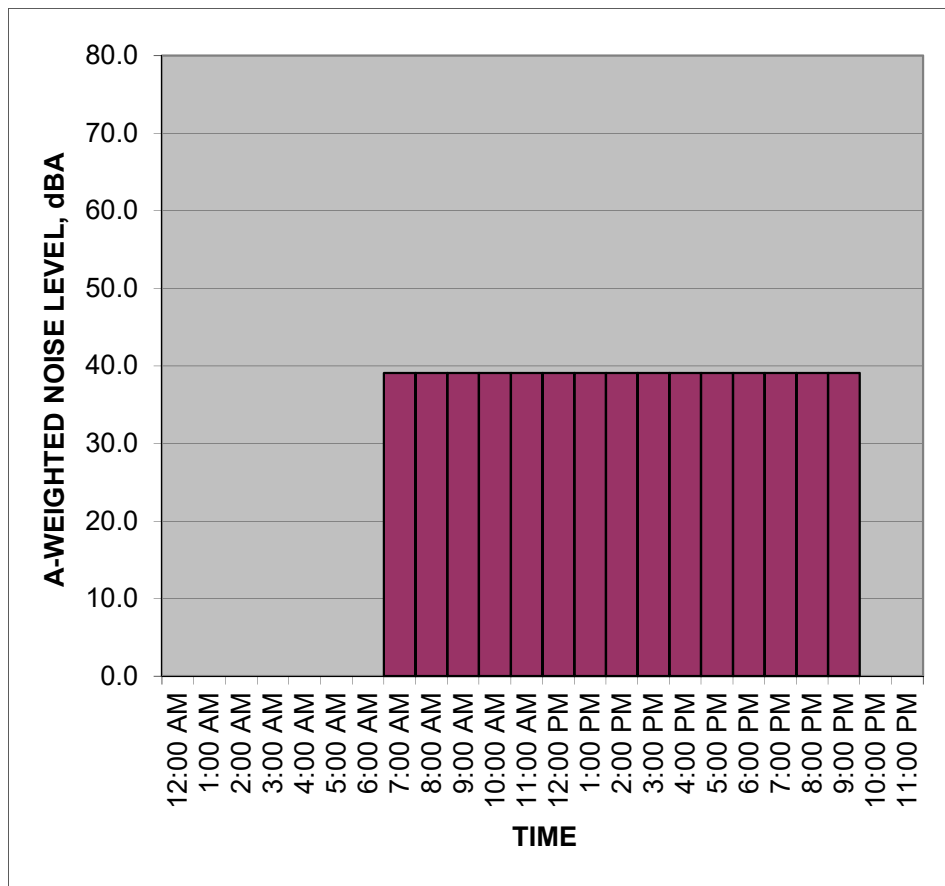


NOTES:

CNEL Calculation

Project:
 Location: R3
 Sources: Loading Dock and Trash Collection Areas

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	39.1
8:00 AM	39.1
9:00 AM	39.1
10:00 AM	39.1
11:00 AM	39.1
12:00 PM	39.1
1:00 PM	39.1
2:00 PM	39.1
3:00 PM	39.1
4:00 PM	39.1
5:00 PM	39.1
6:00 PM	39.1
7:00 PM	39.1
8:00 PM	39.1
9:00 PM	39.1
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	40.7

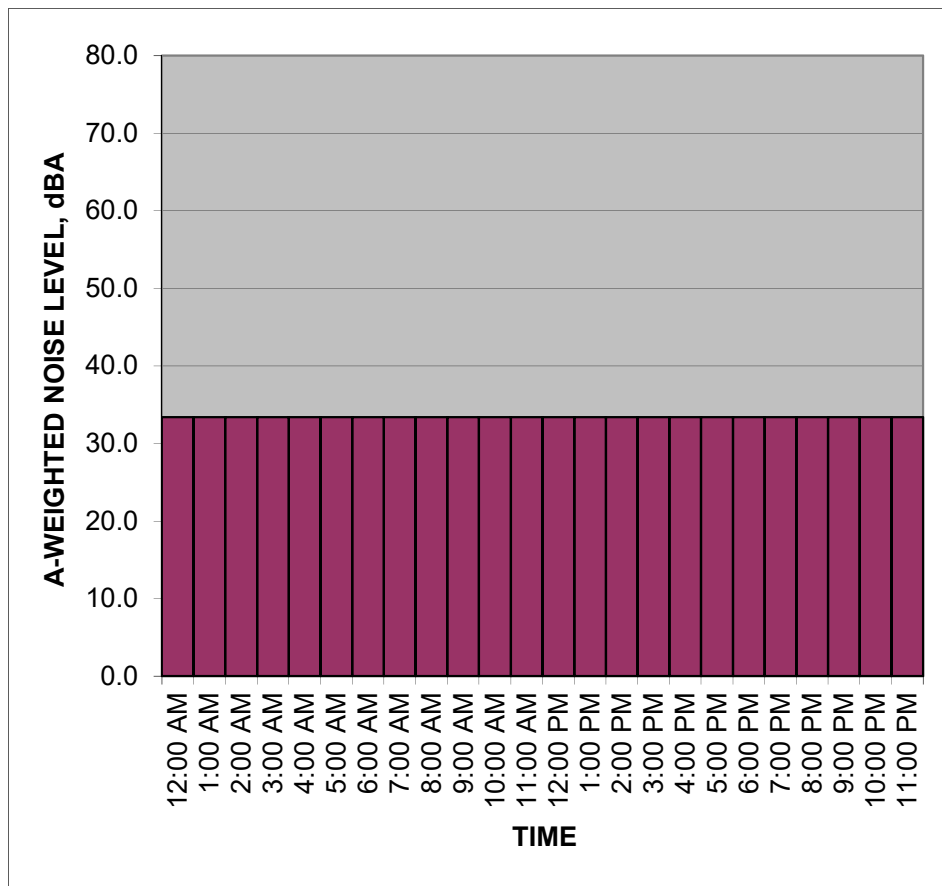


NOTES:

CNEL Calculation

Project:
 Location: R3
 Sources: Mechanical Equipment

TIME	HNL, dB(A)
12:00 AM	33.4
1:00 AM	33.4
2:00 AM	33.4
3:00 AM	33.4
4:00 AM	33.4
5:00 AM	33.4
6:00 AM	33.4
7:00 AM	33.4
8:00 AM	33.4
9:00 AM	33.4
10:00 AM	33.4
11:00 AM	33.4
12:00 PM	33.4
1:00 PM	33.4
2:00 PM	33.4
3:00 PM	33.4
4:00 PM	33.4
5:00 PM	33.4
6:00 PM	33.4
7:00 PM	33.4
8:00 PM	33.4
9:00 PM	33.4
10:00 PM	33.4
11:00 PM	33.4
CNEL, dB(A):	40.1

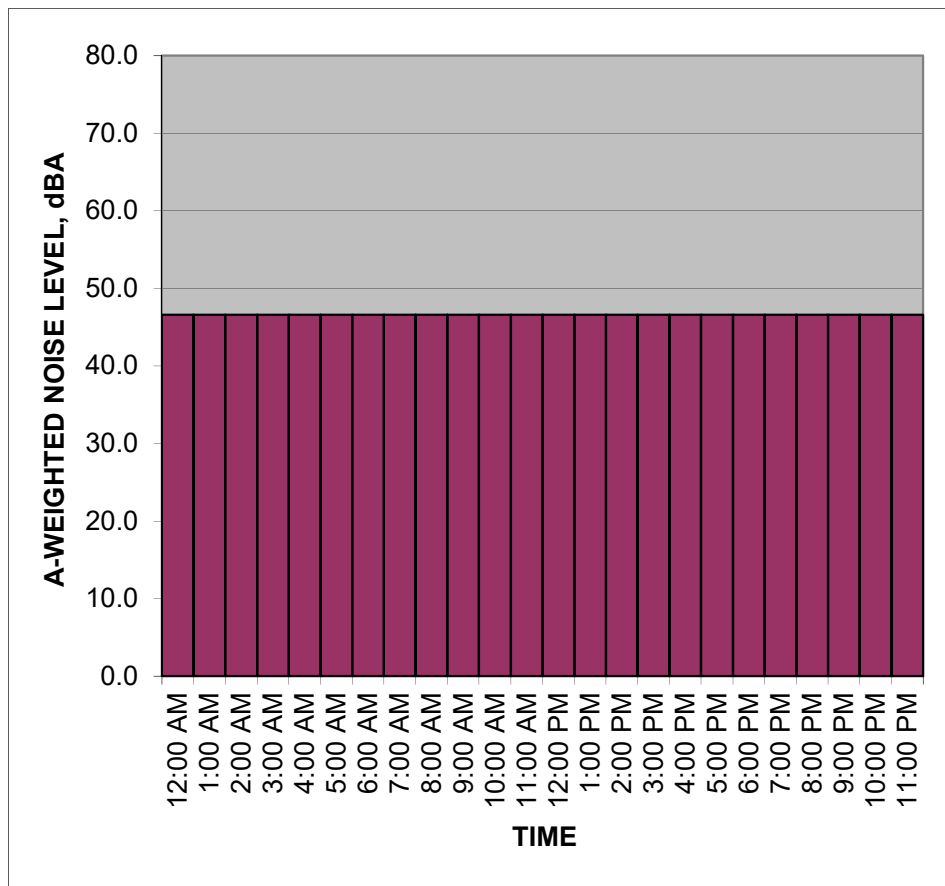


NOTES:

CNEL Calculation

Project:
 Location: R3
 Sources: Parking Activities

TIME	HNL, dB(A)
12:00 AM	46.6
1:00 AM	46.6
2:00 AM	46.6
3:00 AM	46.6
4:00 AM	46.6
5:00 AM	46.6
6:00 AM	46.6
7:00 AM	46.6
8:00 AM	46.6
9:00 AM	46.6
10:00 AM	46.6
11:00 AM	46.6
12:00 PM	46.6
1:00 PM	46.6
2:00 PM	46.6
3:00 PM	46.6
4:00 PM	46.6
5:00 PM	46.6
6:00 PM	46.6
7:00 PM	46.6
8:00 PM	46.6
9:00 PM	46.6
10:00 PM	46.6
11:00 PM	46.6
CNEL, dB(A):	53.3

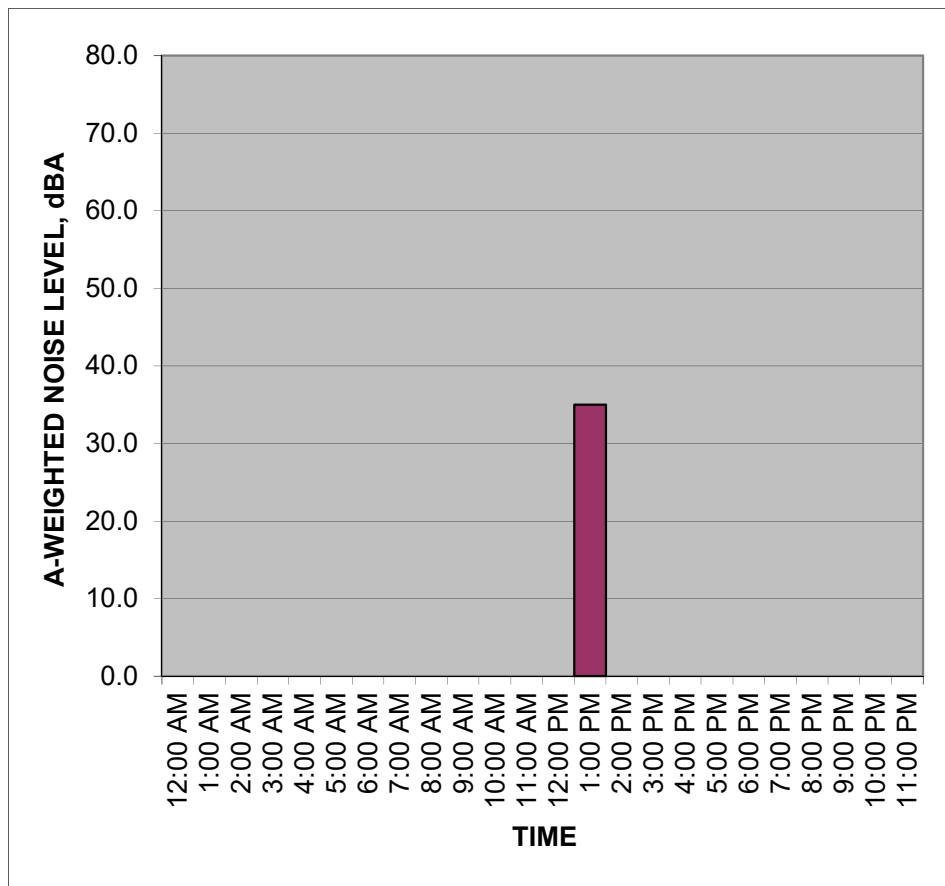


NOTES:

CNEL Calculation

Project:
 Location: R4
 Sources: Emergency Generator

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	0.0
8:00 AM	0.0
9:00 AM	0.0
10:00 AM	0.0
11:00 AM	0.0
12:00 PM	0.0
1:00 PM	35.0
2:00 PM	0.0
3:00 PM	0.0
4:00 PM	0.0
5:00 PM	0.0
6:00 PM	0.0
7:00 PM	0.0
8:00 PM	0.0
9:00 PM	0.0
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	35.0

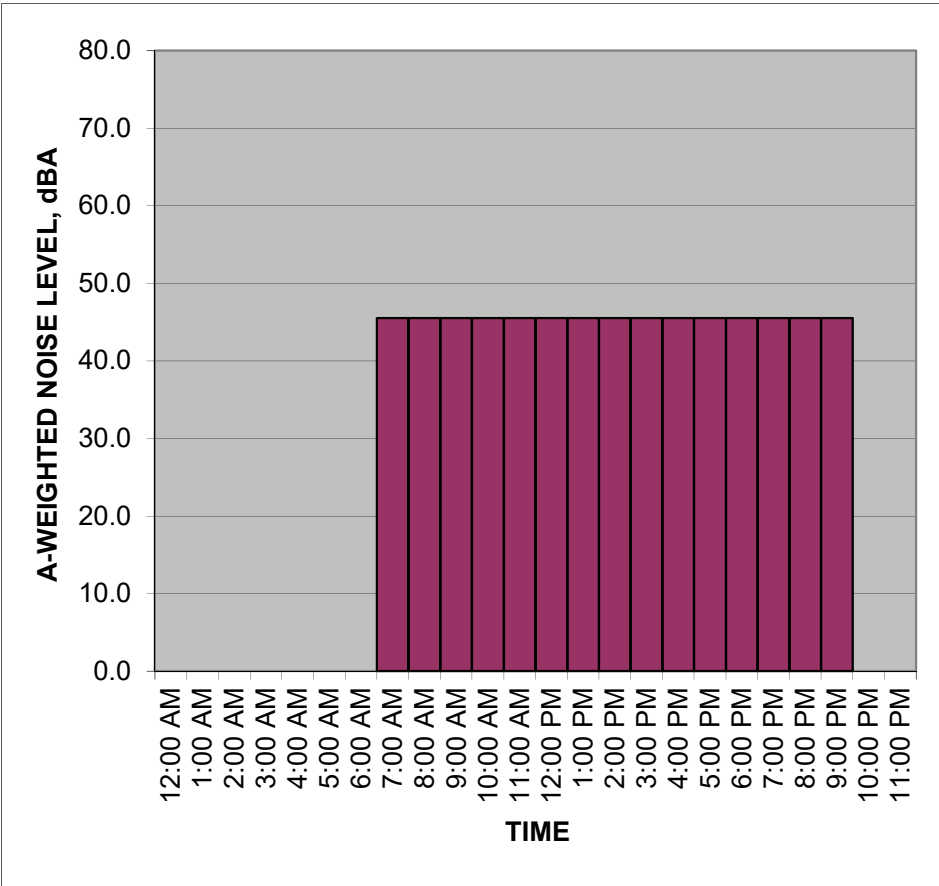


NOTES:

CNEL Calculation

Project:
 Location: R4
 Sources: Loading Dock and Trash Collection Areas

TIME	HNL, dB(A)
12:00 AM	0.0
1:00 AM	0.0
2:00 AM	0.0
3:00 AM	0.0
4:00 AM	0.0
5:00 AM	0.0
6:00 AM	0.0
7:00 AM	45.5
8:00 AM	45.5
9:00 AM	45.5
10:00 AM	45.5
11:00 AM	45.5
12:00 PM	45.5
1:00 PM	45.5
2:00 PM	45.5
3:00 PM	45.5
4:00 PM	45.5
5:00 PM	45.5
6:00 PM	45.5
7:00 PM	45.5
8:00 PM	45.5
9:00 PM	45.5
10:00 PM	0.0
11:00 PM	0.0
CNEL, dB(A):	47.1

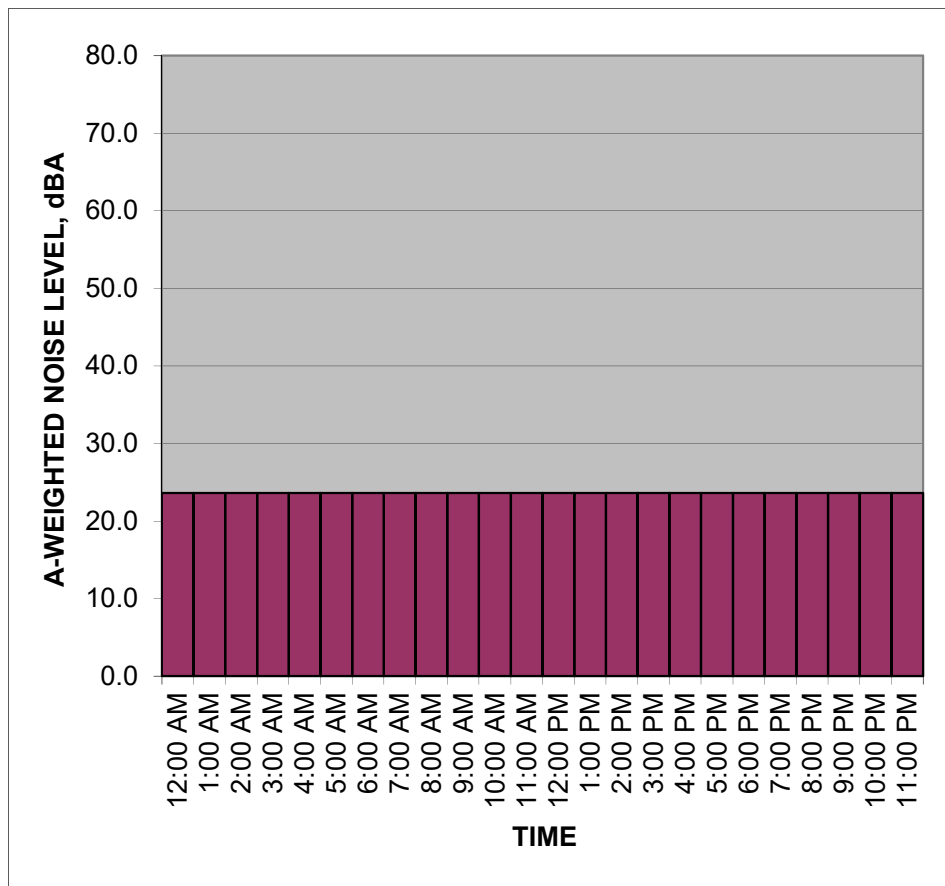


NOTES:

CNEL Calculation

Project:
 Location: R4
 Sources: Mechanical Equipment

TIME	HNL, dB(A)
12:00 AM	23.6
1:00 AM	23.6
2:00 AM	23.6
3:00 AM	23.6
4:00 AM	23.6
5:00 AM	23.6
6:00 AM	23.6
7:00 AM	23.6
8:00 AM	23.6
9:00 AM	23.6
10:00 AM	23.6
11:00 AM	23.6
12:00 PM	23.6
1:00 PM	23.6
2:00 PM	23.6
3:00 PM	23.6
4:00 PM	23.6
5:00 PM	23.6
6:00 PM	23.6
7:00 PM	23.6
8:00 PM	23.6
9:00 PM	23.6
10:00 PM	23.6
11:00 PM	23.6
CNEL, dB(A):	30.3

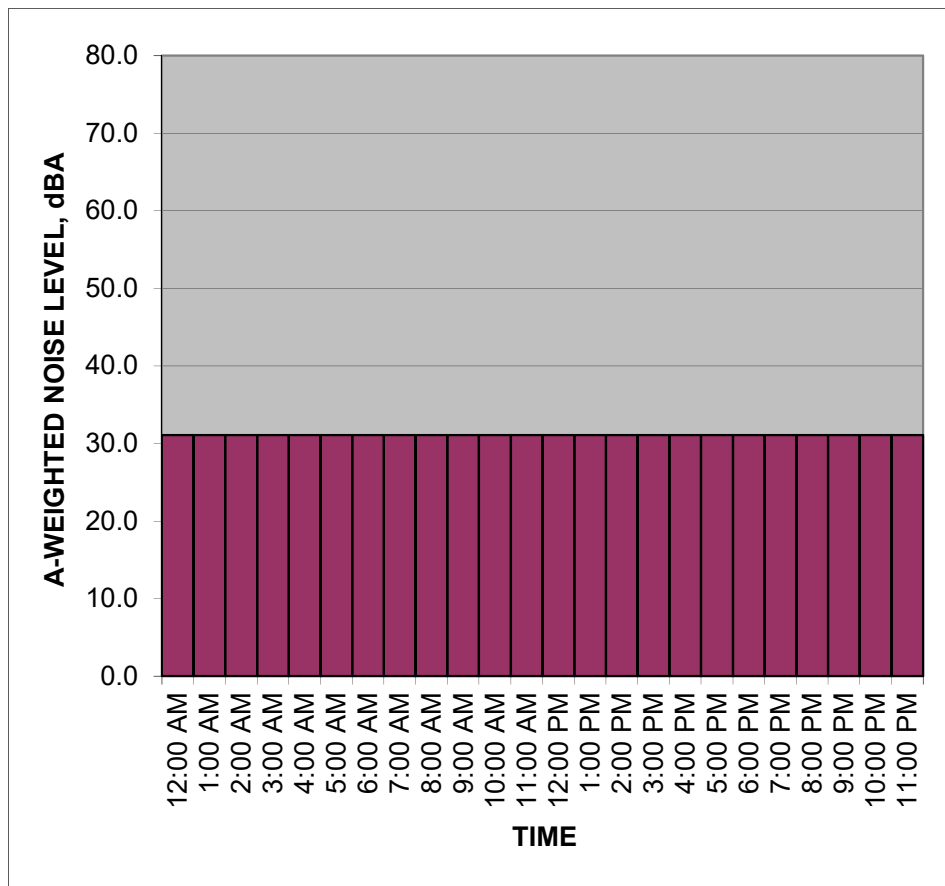


NOTES:

CNEL Calculation

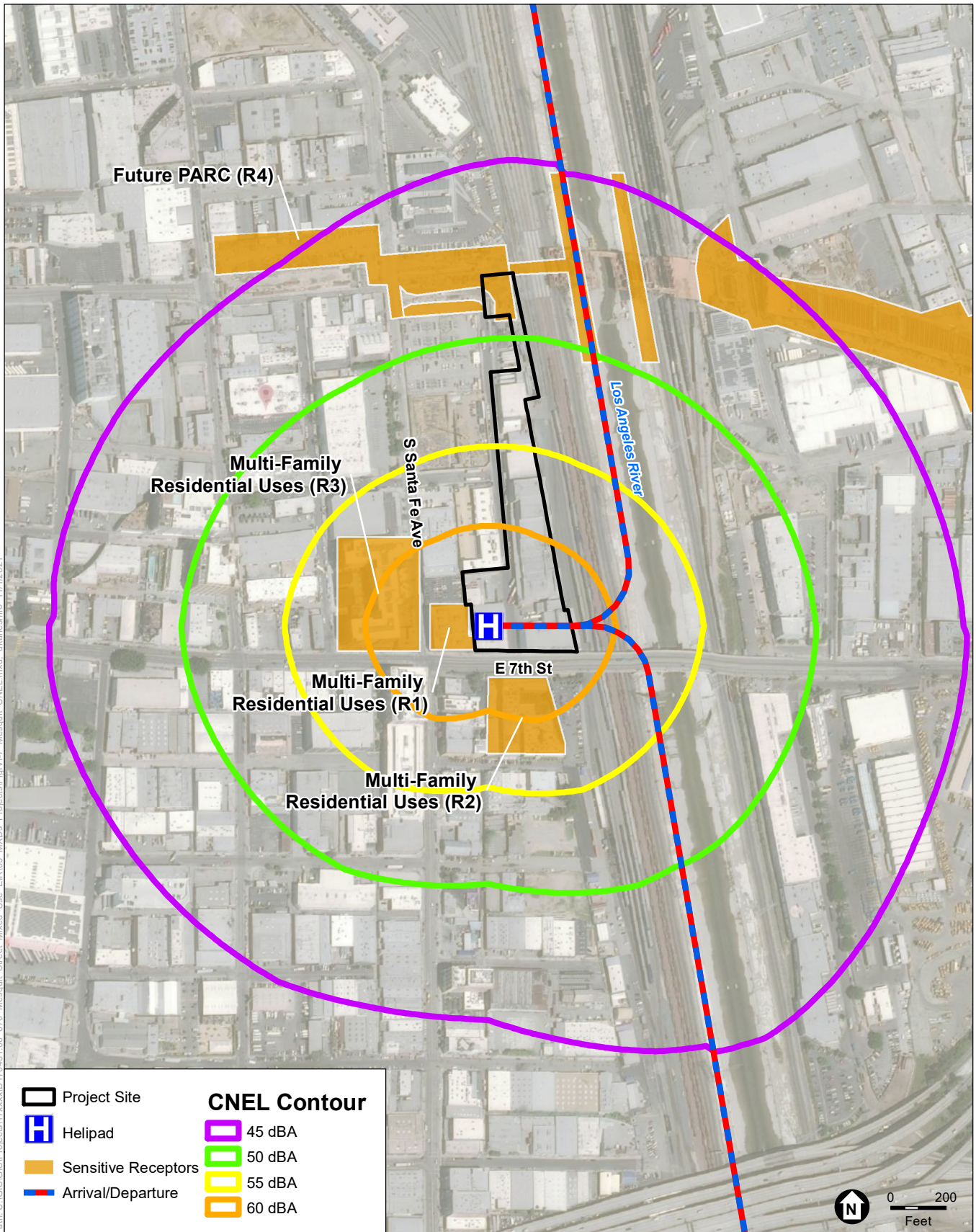
Project:
 Location: R4
 Sources: Parking Activities

TIME	HNL, dB(A)
12:00 AM	31.1
1:00 AM	31.1
2:00 AM	31.1
3:00 AM	31.1
4:00 AM	31.1
5:00 AM	31.1
6:00 AM	31.1
7:00 AM	31.1
8:00 AM	31.1
9:00 AM	31.1
10:00 AM	31.1
11:00 AM	31.1
12:00 PM	31.1
1:00 PM	31.1
2:00 PM	31.1
3:00 PM	31.1
4:00 PM	31.1
5:00 PM	31.1
6:00 PM	31.1
7:00 PM	31.1
8:00 PM	31.1
9:00 PM	31.1
10:00 PM	31.1
11:00 PM	31.1
CNEL, dB(A):	37.8



NOTES:

Heliport Noise Contours (dBA CNEL)



SOURCE: ESRI, 2021; ESA, 2021.

670 Mesquit

Figure A
Heliport Noise Contours (dBA CNEL)



Vibration Calculations

CONSTRUCTION VIBRATION IMPACTS – BUILDING DAMAGE

Off-Site Structure ^a	Distance to Source	Estimated Vibration Velocity Levels at the Nearest Off-Site Structures from the Source of Vibration (in/sec PPV) ^b					Significance Threshold ^c	Exceed Significance Thresholds?
		Large Bulldozer	Drill Rig	Loaded Trucks	Jack-hammer	Small Bulldozer		
<i>Off-Road Construction Equipment</i>								
<i>FTA Reference Vibration Levels</i>	25 feet	0.089	0.089	0.076	0.035	0.003	--	--
V1	5 feet	0.995	0.995	0.850	0.391	0.034	0.12	Yes
V2	130 feet	0.008	0.008	0.006	0.003	0.000	0.2	No
V3	180 feet	0.005	0.005	0.004	0.002	0.000	0.5	No
V4 & V5	50 feet	0.031	0.031	0.027	0.012	0.001	0.2	No
V6	5 feet	0.995	0.995	0.850	0.391	0.034	0.5	Yes

^a Represents off-site building structures located nearest to the Project Site to the north, south, and west.

^b Vibration level calculated based on FTA reference vibration level at 25-foot reference distance.

^c FTA criteria for reinforced-concrete, steel, or timber (no plaster) structures (0.5 in/sec PPV) and for buildings susceptible to vibration damage (0.12 in/sec PPV).

SOURCE: FTA, Transit Noise and Vibration Impact Assessment; ESA, 2021.

CONSTRUCTION VIBRATION IMPACTS – HUMAN ANNOYANCE

Off-Site Structure ^a	Distance to Source	Estimated Vibration Velocity Levels at the Nearest Off-Site Structures from the Project Construction Equipment (VdB) ^b					Significance Threshold ^c	Exceed Significance Thresholds?
		Large Bulldozer	Drill Rig	Loaded Trucks	Jack-hammer	Small Bulldozer		
<i>Off-Road Construction Equipment</i>								
<i>FTA Reference Vibration Levels</i>	25	86.9	86.9	85.6	78.8	57.5	--	--
V1	5	107.9	107.9	106.5	99.8	78.5	72	Yes
V2	130	65.5	65.5	64.1	57.4	36.0	72	No
V3	180	61.2	61.2	59.9	53.1	31.8	72	No

^a Represents off-site building structures located nearest to the Project Site to the north, south, and west (V1, V2, and V3 represent multi-family residential uses).

^b Vibration level calculated based on FTA reference vibration level at 25-foot reference distance.

^c FTA criteria for residences or buildings where people normally sleep (72 VdB).

SOURCE: FTA, Transit Noise and Vibration Impact Assessment, 2018; ESA, 2021.

MITIGATED CONSTRUCTION VIBRATION IMPACTS – BUILDING DAMAGE

Off-Road Construction Equipment	FTA Reference Level at 25 feet (in/sec PPV)	Mitigated Distance (feet)	Estimated Vibration Velocity Levels at the Mitigated Distance (in/sec PPV)^b	Significance Threshold^c	Exceed Significance Thresholds?
<i>V1</i>					
Large Bulldozer	0.089	21	0.116	0.12	No
Loaded Trucks	0.076	19	0.115		No
Jackhammer	0.035	12	0.105		No
Small Bulldozer	0.003	3	0.072		No
<i>V6</i>					
Large Bulldozer	0.089	8	0.492	0.5	No
Loaded Trucks	0.076	8	0.420		No
Jackhammer	0.035	5	0.391		No
Small Bulldozer	0.003	1	0.375		No

^a Represents off-site building structures with unmitigated impacts.

^b Vibration level calculated based on FTA reference vibration level at 25-foot reference distance.

SOURCE: FTA, Transit Noise and Vibration Impact Assessment; ESA, 2021.

670 Mesquit Project
Vibration Level Calculations
Based on Federal Transit Administration, Office of Planning and Environment

N =	1.5
-----	-----

Construction Equipment	Project Equipment	Equipment Peak Particle Velocity @ 25 Feet* (inches/second)	Distance to Receptor for < 0.5 PPV (Feet)	Estimated Velocity Decibels @ Distance** (VdB)	Estimated Peak Particle Velocity @ Distance*** (inches/second)
Unmitigated Vibration Levels					
R1					
Large Bulldozer or Bore/Drill Rig	Yes	0.089	5	107.9	0.995
Loaded Trucks	Yes	0.076	5	106.5	0.850
Jackhammer	Yes	0.035	5	99.8	0.391
Small Bulldozer	Yes	0.003	5	78.5	0.034
R2					
Large Bulldozer or Bore/Drill Rig	Yes	0.089	130	65.5	0.008
Loaded Trucks	Yes	0.076	130	64.1	0.006
Jackhammer	Yes	0.035	130	57.4	0.003
Small Bulldozer	Yes	0.003	130	36.0	0.000
R3					
Large Bulldozer or Bore/Drill Rig	Yes	0.089	180	61.2	0.005
Loaded Trucks	Yes	0.076	180	59.9	0.004
Jackhammer	Yes	0.035	180	53.1	0.002
Small Bulldozer	Yes	0.003	180	31.8	0.000
640 S Santa Fe Ave & 1580 Jesse St					
Large Bulldozer or Bore/Drill Rig	Yes	0.089	50	77.9	0.031
Loaded Trucks	Yes	0.076	50	76.5	0.027
Jackhammer	Yes	0.035	50	69.8	0.012
Small Bulldozer	Yes	0.003	50	48.5	0.001
7th Street Bridge					
Large Bulldozer or Bore/Drill Rig	Yes	0.089	5	107.9	0.995
Loaded Trucks	Yes	0.076	5	106.5	0.850
Jackhammer	Yes	0.035	5	99.8	0.391
Small Bulldozer	Yes	0.003	5	78.5	0.034

Source:

Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, 2018.

Notes:

* Values taken from Table 7-4.

** Based on the formula $VdB = 20 \times \text{LOG}_{10}(v/v_{ref})$, where v_{ref} is equal to 1×10^{-6} in/sec (see page 111).

The approximate rms vibration velocity level (v) is calculated from PPV using a crest factor of 4 (see page 184).

*** Based on the formula $PPV(D) = PPV(25 \text{ ft}) \times (25/D)^N$, where D is equal to the distance (see page 185).

N = soil type classification factor (typically ranges from 1 to 1.5)

Existing Traffic Volumes

Existing Traffic Volumes

Total vehicles	201
Total Trucks	145
Medium Trucks	75
Heavy Trucks	70
% Cars	28%
% Trucks	72%
	<i>% of Trucks MD</i> 52%
	<i>% of Trucks HD</i> 48%

Peak Hour trips	39
Passenger Vehicles	11
Trucks	28
	<i>MD Trucks</i> 15
	<i>HD Trucks</i> 13

<--- Per TA Trip Generation (Table 11a)

From Site		Trucks	MD	HD
Jesse (between Santa Fe and Mesquit)	80%	23	12	11
6th Street (w/o Alameda)	20%	6	3	3

From 6th				
Left on Santa Fe (between Mesquit and Jesse, Jesse and 7th)	95%	5	3	2
Right on Santa Fe (between Willow St and Mesquit St)	5%	1	1	0

From Jesse				
Left on Santa Fe (between Jesse and 7th)	95%	21	11	10
Right on Santa Fe (between Mesquit and Jesse)	5%	2	1	1

Adjustment to Volumes:

	Cars	MD	HD
Santa Fe Ave between Jesse St and 7th St	-26	14	12
Santa Fe Ave between Mesquit St and Jesse St	-7	4	3
Santa Fe Ave between Willow St and Mesquit St	-1	1	0
Mesquit between 6th and 7th	-28	15	13
Jesse St between Santa Fe Ave and Mesquit St	-23	12	11

RANCHO COLD STORAGE, INC

670 MESQUIT STREET
LOS ANGELES, CA. 90021

Daily Truck Traffic

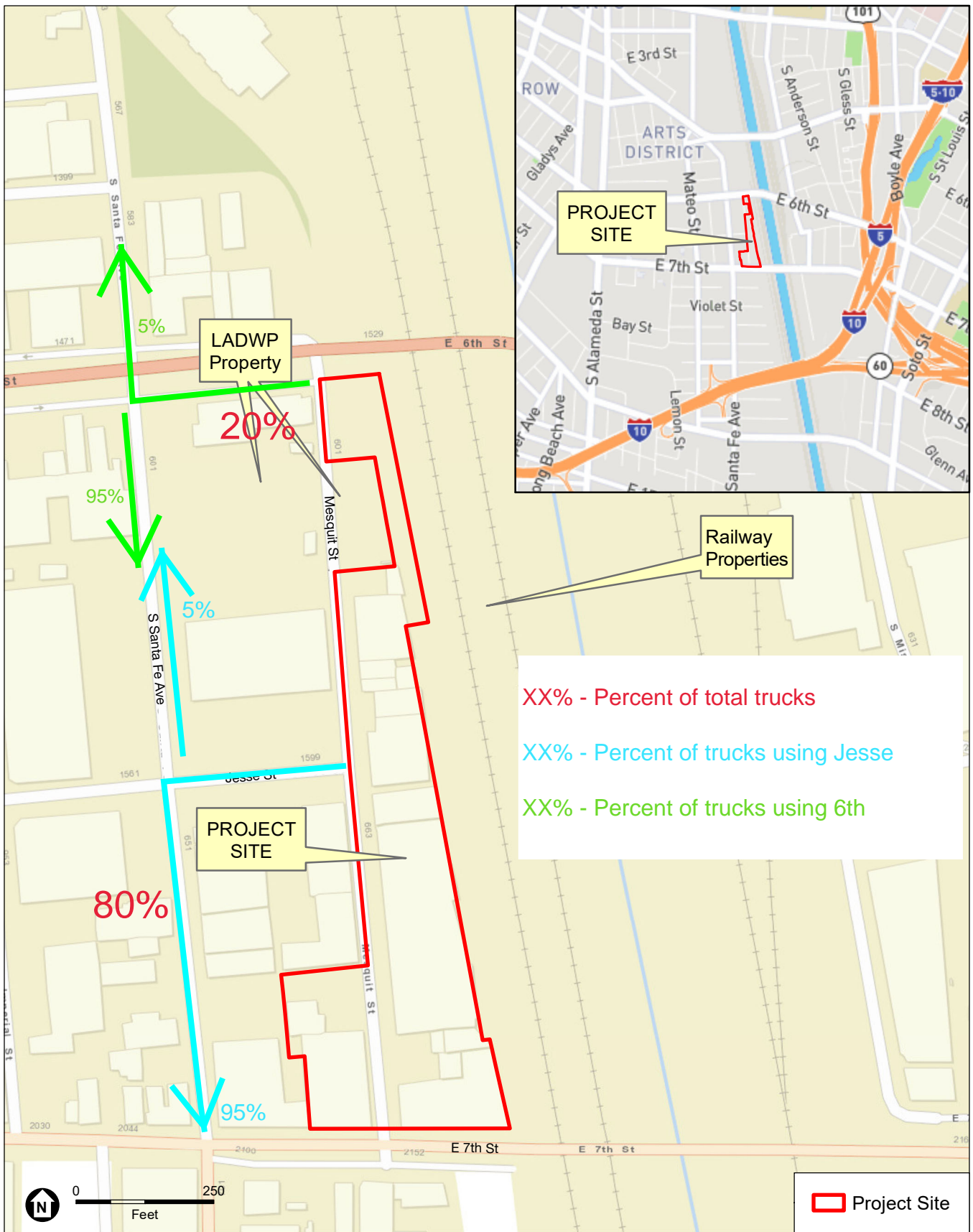
	Total	Bobtail	Semi	On-Site		Cars
Rancho Cold Storage Trucks						
Refrigerated Trucks	80	60.00	20	1		
Dry Trucks	5	3.00	2			20
Hidden Villa (All referated)	25	2.00	23	5		20
Integrated (All refrigerated)	25	5.00	20	0		12
Harvey's (All refrigerated)	10	5.00	5	0		4
	145.00	75.00	70.00			56.00

Percentage	
Refrigeration Units	95
Diesel power refrigeration Plug in	5

Percentage		
Routes	Jesse	80
	6th st	20
	left on Santa Fe	95
	Right on Santa Fe	5
	Trucks on Freeway	75
	Trucks on Street	25
	Trucks in So Cal	90
	Trucks leave So Cal	10

Other on site issues

Furance (40 ton) that runs 4 months per year

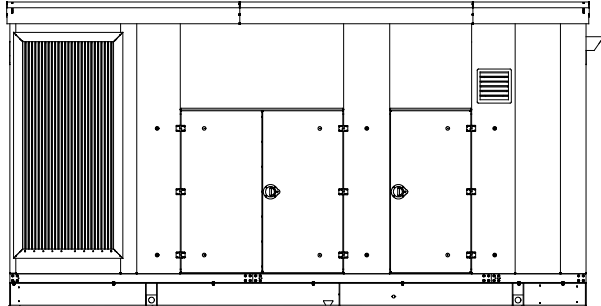


SOURCE: Open Street Map, 2016

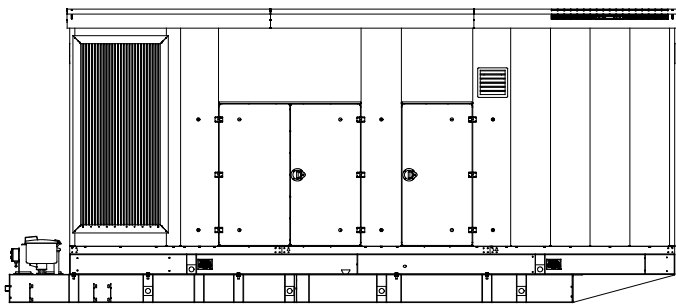
Existing Truck Routes

References

Sound Enclosure and Subbase Fuel Tank Package



Level 1 Sound Enclosure with Lift Base



Level 2 Sound Enclosure with Subbase Fuel Tank
(shown with optional spill containment)

Enclosure and Subbase Fuel Tank Combinations

Four enclosure configurations are available with the subbase fuel tanks:

- Sound Enclosure Level 1
- Sound Enclosure Level 1, AQMD Ready
- Sound Enclosure Level 2
- Sound Enclosure Level 2, AQMD Ready

Available Approvals and Listings

- UL 2200 Listing
- UL142 Listing (fuel tanks)
- CSA Approval
- IBC Seismic Certification
- California OSHPD Approval (KD800- KD1750 models)
- cUL Listing (fuel tanks only)
- Hurricane Rated Enclosure - Available on aluminum Sound Level 2 enclosures, KD800- KD1750 models (Impact rated for Large Missile Level E and Wind load rated per Florida Building Code, tested to TAS201-94, TAS202-94 and TAS203-94 standards)

NOTE: Some models may have limited third-party approvals; see your local distributor for details.

Applicable to the following models:
KD800 - KD2500 (includes KD1250-A,
KD1250-4, KD2500-4)

Sound Level 1 Enclosure Standard Features

- Internal silencers with flexible exhaust connectors and exhaust elbows.
- Mounts to lift base and optional subbase fuel tank.
- Aluminum construction with six large, hinged, removable doors for easy maintenance.
- Fade-, scratch-, and corrosion-resistant Kohler® Power Armor™ automotive-grade textured finish.
- Lockable, flush-mounted door latches.
- Air inlet louvers to reduce rain and snow entry.
- Sloped roof to reduce the buildup of moisture and debris.
- Acoustic insulation that meets UL 94 HF1 flammability classification.
- Sound level 1 enclosure is designed to 150 mph (241 kph) wind load rating.
- Sound level 1 enclosure uses internal silencers, acoustic insulation and acoustic-lined air inlet hoods.

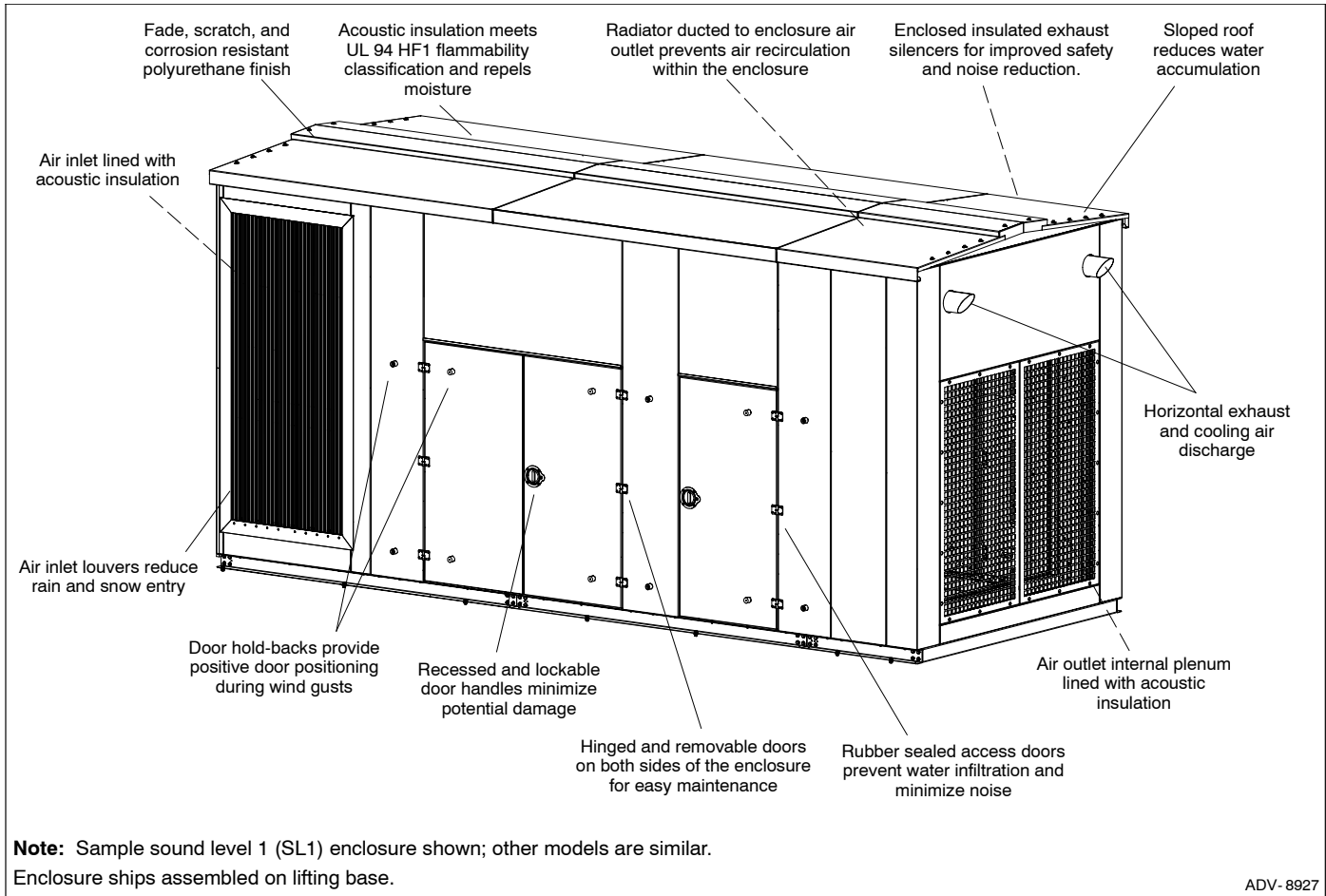
Sound Level 2 Enclosure Standard Features

- Includes all of the sound level 1 enclosure features with the addition of up to 51 mm (2 in.) acoustic insulation material, intake sound baffles, secondary silencers, and vertical air discharge with rain caps.
- Vertical outlet hood with 90 degree angles to redirect air and reduce noise.
- Sound level 2 enclosure is certified to 186 mph (299 kph) wind load rating for KD800- 2500 models.

Subbase Fuel Tank Features

- The fuel tank has a Power Armor Plus™ textured epoxy-based rubberized coating.
- The above-ground rectangular secondary containment tank mounts directly to the generator set, below the generator set skid (subbase).
- Both the inner and outer tanks have UL-listed emergency relief vents.
- Flexible fuel lines are provided with subbase fuel tank selection.
- The containment tank's construction protects against fuel leaks or ruptures. The inner (primary) tank is sealed inside the outer (secondary) tank. The outer tank contains the fuel if the inner tank leaks or ruptures.
- The above ground secondary containment subbase fuel tank meets UL 142 requirements.
- State tanks with varying capacities are available. Florida Dept. of Environmental Protection (FDEP) File No. EQ-634 approved.

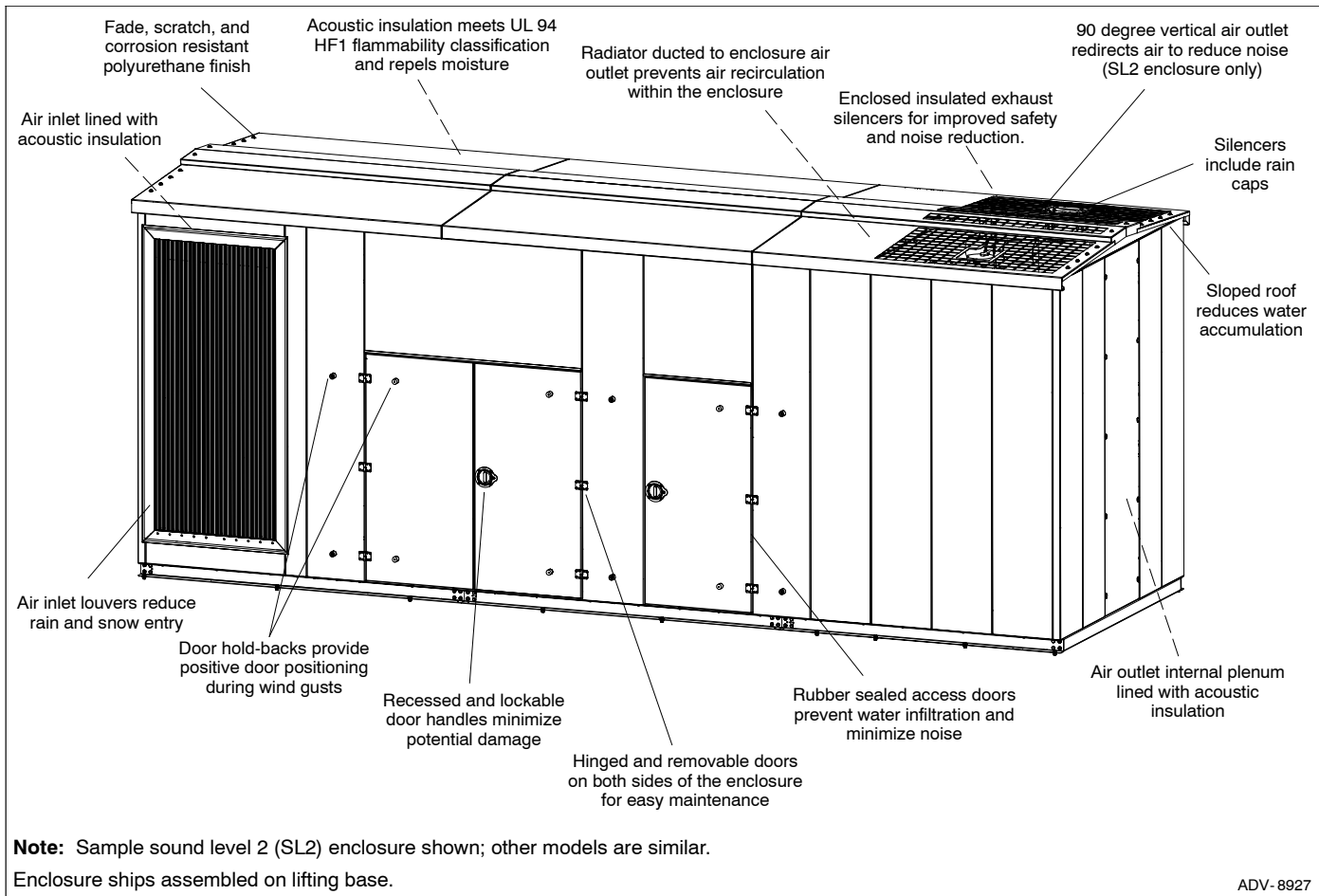
Aluminum Sound Enclosures



Level 1 Sound Enclosure Features

- Heavy-duty formed panels, solid construction. Preassembled package offering corrosion resistant, dent resilient structure mounting directly to lift base or fuel tank.
- Polyurethane enamel paint. Superior finish, durability, and appearance.
- The enclosure has a sloped roof to reduce the buildup of moisture and debris.
- Internal exhaust silencers offering maximum component life and operator safety.
- **NOTE:** Installing an additional length of exhaust tail pipe may increase backpressure levels. Please refer to the generator set spec sheet for the maximum backpressure value.
- Service access. Multiple personnel doors for easy access to generator set control and servicing of the fuel fill, fuel gauge, oil fill, and battery.
- Interchangeable modular panel construction. Allows complete serviceability or replacement without compromising enclosure design.
- Bolted panels facilitate service, future modification upgrades, or field replacement.
- Cooling/combustion air intake. Fixed air intake louvers.
- Sound-attenuating design using critical silencers. Acoustic insulation UL 94 HF1 listed for flame resistance.
- Horizontal air discharge. Sound level 1 (SL1) enclosures use a horizontal design that directs exhaust and cooling air out the end of the enclosure.

Aluminum Sound Enclosures

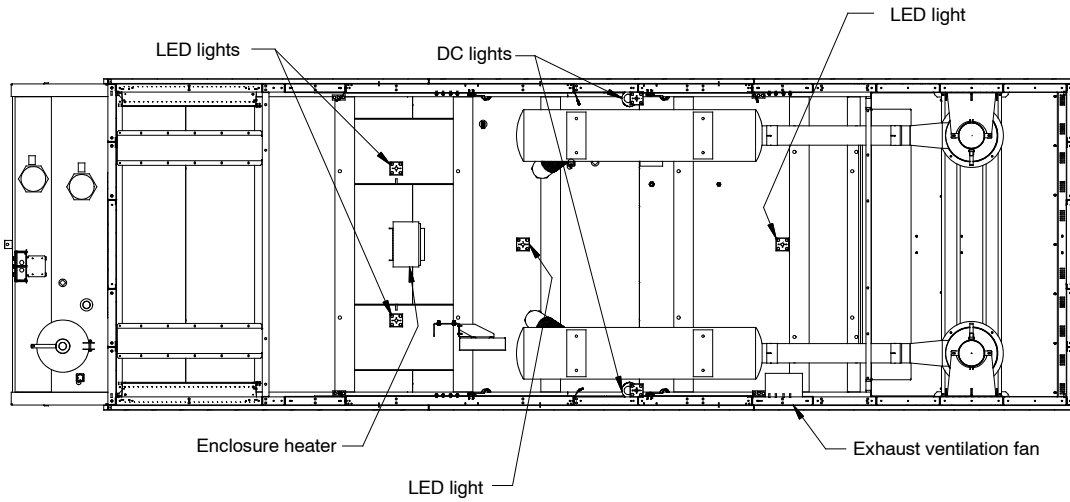


Level 2 Sound Enclosure Features

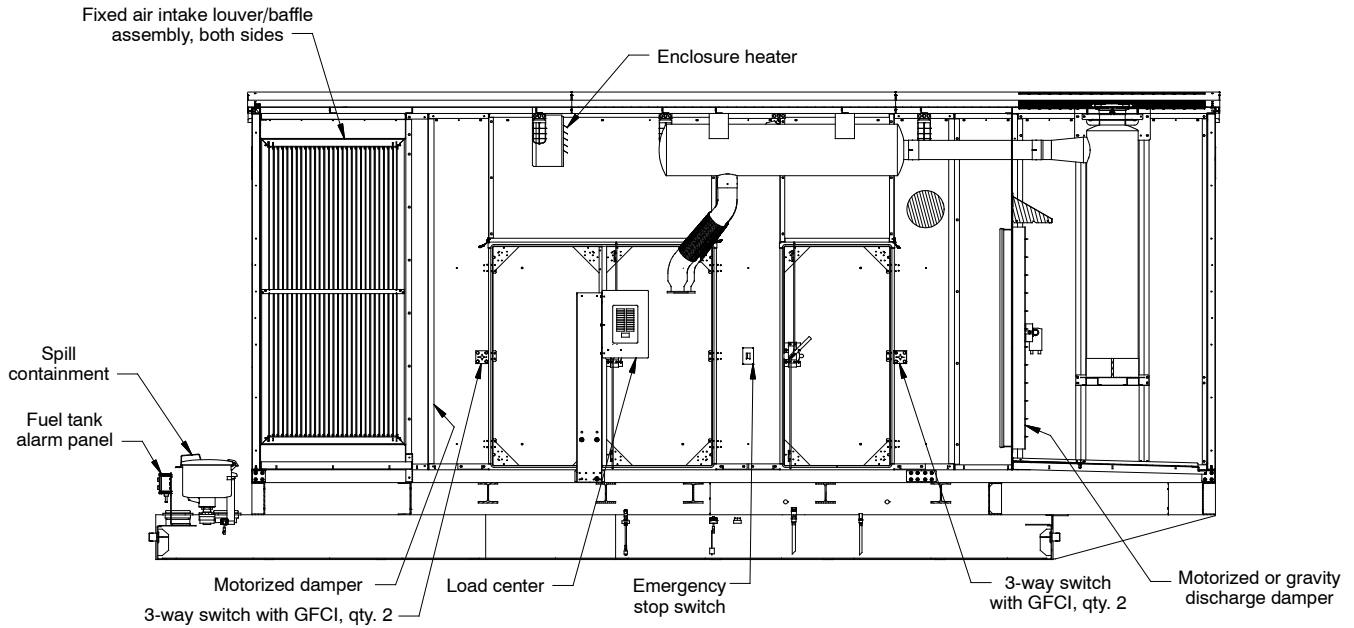
- Heavy-duty formed panels, solid construction. Preassembled package offering corrosion resistant, dent resilient structure mounting directly to lift base or fuel tank.
- Polyurethane enamel paint. Superior finish, durability, and appearance.
- The enclosure has a sloped roof to reduce the buildup of moisture and debris.
- Internal exhaust silencers offering maximum component life and operator safety.
- Service access. Multiple personnel doors on both sides for easy access to generator set control and servicing of the fuel fill, fuel gauge, oil fill, and battery.
- Interchangeable modular panel construction. Allows complete serviceability or replacement without compromising enclosure design.
- Bolted panels facilitate service, future modification upgrades, or field replacement.
- Cooling/combustion air intake. Fixed air intake louvers.
- Sound-attenuating design using additional secondary silencers and up to 51 mm (2 inches) of added acoustic insulation, UL 94 HF1 listed for flame resistance.
- Vertical air discharge. Sound level 2 (SL2) models use a vertical air discharge design that redirects exhaust and cooling air up and above the enclosure to reduce noise.

Aluminum Sound Enclosure Options

Top view of SL2 enclosure, shown with roof removed for illustration only:



Side view of SL2 enclosure, shown with side panels removed for illustration only:

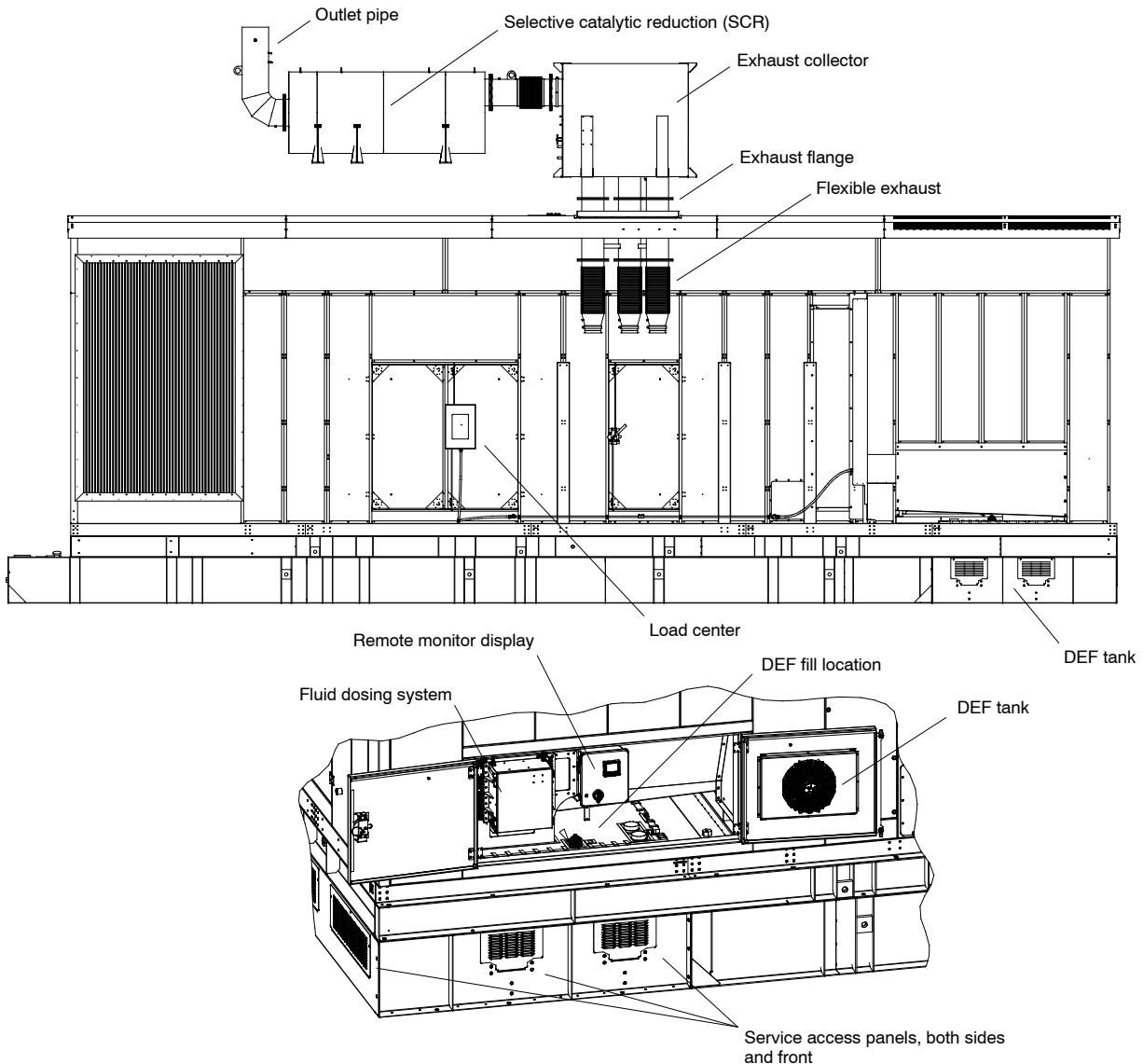


Note: Sample sound level 2 (SL2) enclosure shown; other models are similar.

ADV-8919-5

Tier 4 Aluminum Sound Enclosure

KD2500-4, Side view of SL2 enclosure, shown with side panels removed for illustration only:



Note: Sample sound level 2 (SL2) enclosure shown; other models are similar.

ADV-9179-2

Tier 4, Level 2 Sound Enclosure Features

- Available on KD1250-4 and KD2500-4
- Tier 4 options only available with sound level 2 enclosures.
- Includes all of the sound level 1 and 2 enclosure features with the addition of DEF tank, SCR, and exhaust collector.
- Remote monitor display
- Locates DEF tanks and lines
- Correctly sizes DEF and diesel tanks
- Service box for control and filter mounting
- Platforms not included
- Diesel fuel state tank is standard
 - KD1250-4
 - State tank, 5863 L (1549 gal.) or 11205 L (2960 gal.)
 - DEF tank capacity,
 - * 620 L (164 gal.) with 5863 L (1549 gal.) state tank
 - * 1241 L (328 gal.) with 11205 L (2960 gal.) state tank
 - KD2500-4
 - State tank, 14130 L (3733 gal.)
 - DEF tank capacity, 1241 L (328 gal.)

Aluminum Sound Enclosure Options

Basic Electrical Package (BEP)

Distribution Panel/Load Center. Prewired AC power distribution of all factory-installed features including block heater, two GFCI-protected internal 120-volt service receptacles, internal lighting, and commercial grade wall switches. Single-phase or three-phase load center powered by building source power and protected by a main circuit breaker, rated for 100, 125, or 200 amps as noted, with capacity and circuit positions for future expansion. AC power distribution installed in accordance with NEC and all wiring within EMT thin wall conduit. LED AC lights located within UL-listed fixtures designed for wet locations.

- BEP, single-phase, 120/208, 60 Hz or 120/240 VAC, 60 Hz. Includes 100 amp electrical panel, two 3-way switches, four LED lights, and two GFCI receptacles. *
- BEP, three-phase, 120/208, 60 Hz or 120/240VAC, 60 Hz. Includes 125 amp electrical panel, two 3-way switches, four LED lights, and two GFCI receptacles.
- BEP, 200 amp, single-phase, 120/208, 60 Hz or 120/240 VAC, 60 Hz. Includes 200 amp electrical panel, two 3-way switches, four LED lights, and two GFCI receptacles. *
- BEP, 200 amp, three-phase, 120/208, 60 Hz or 120/240VAC, 60 Hz. Includes 200 amp electrical panel, two 3-way switches, four LED lights, and two GFCI receptacles.

DC Light Package

DC Light Package (DLP). Prewired, internal DC light package offering an economical alternative light source within the enclosure, as a complement to the BEP or a source of light when AC power is not available. Battery drain limited with fuse protection and controlled through a 0- 60 minute, spring-wound, no-hold timer. Available in LED.

Electrical Accessories

Wiring Kits. Electrical wiring for accessories. BEP required.

- Alternator heater wiring (KD1250- 2500 only)
- Block heater wiring, single-phase *
- Block heater wiring, three-phase
- Battery charger wiring
- Wire DEF tank heater †
- Wire power supply (Tier 4 system heaters) §

Emergency Stop Switch

- Generator set emergency stop switch, qty. 1.

* Not available options with Tier 4 generator set enclosures.

† Only available on enclosed Tier 4 generator set enclosures.

§ Only available on open or enclosed Tier 4 generator sets.

Stepdown Transformers. 100 amp BEP required, 60 Hz only. KD1250- 2500 only. *

- Single-phase, 120/240 V *
- Three-phase, 120/208 V *

Disconnect Switches. Disconnect switch for stepdown transformer. 60 Hz only. *

- Single-phase *
- Three-phase *

Enclosure Heater

Heater, 3.7/5 kW Ceiling Mounted. Electrical utility heater prewired to load center internal to enclosure. Rated at 17100 Btu. Includes adjustable louvers offering down flow and horizontal air tuning, built-in thermostat with automatic fan delay controls.

- Heater kit with 1 heater, single/three phase, 208/240 VAC, 60 Hz. BEP required.
- Heater kit with 2 heaters, for KD1250- 2500 only, single/three phase, 208/240 VAC, 60 Hz. 200 amp BEP required.

Exhaust Fan

- Exhaust Ventilation Fan. Mounted inside the enclosure. BEP required.

Motorized Inlet Louvers. 60 Hz only; BEP required.

- Aluminum construction
- Insulated aluminum construction
- Galvanized construction

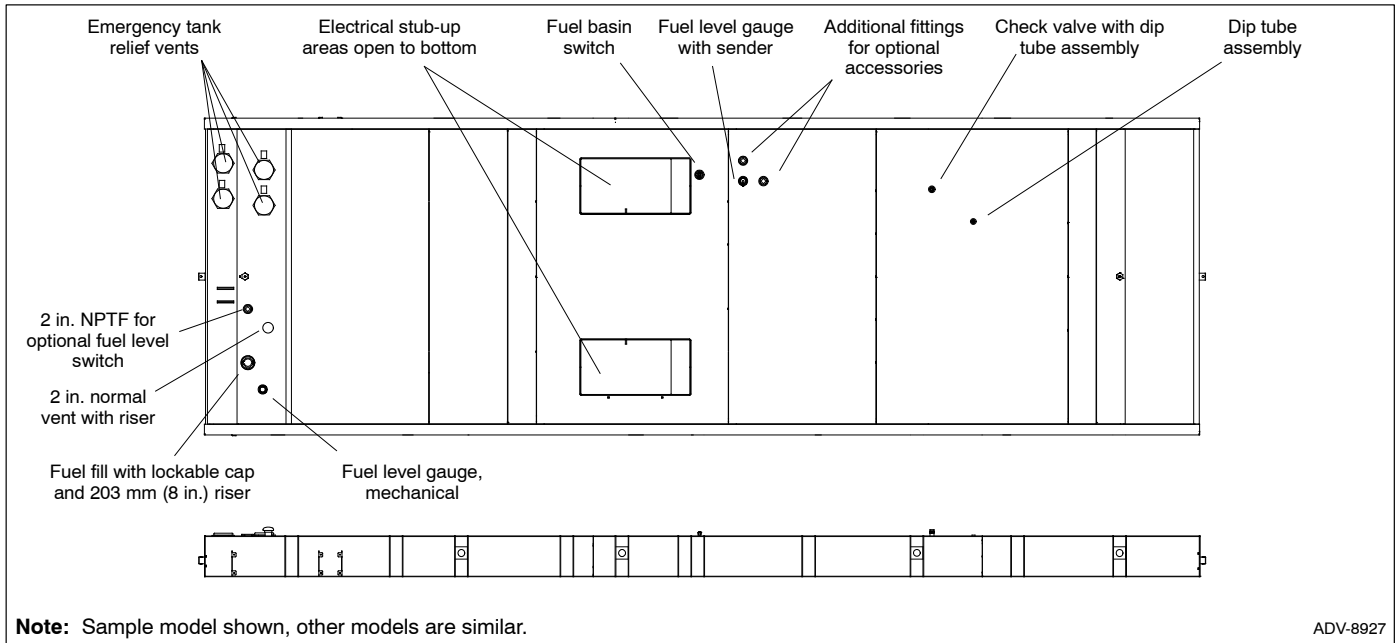
Motorized Outlet Louvers. 60 Hz only; BEP required.

- Aluminum construction
- Insulated aluminum construction
- Galvanized construction

Gravity Air Outlet

- Aluminum construction

Subbase Fuel Tank



Subbase Fuel Tank Standard Features

- Extended operation. State tanks with various capacities for multiple hour requirements.
- UL listed. Secondary containment generator set base tank meeting UL 142 requirements.
- NFPA compliant. Designed to comply with the installation standards of NFPA 30 and NFPA 37.
- Integral external lift lugs. Enables crane with spreader-bar lifting of the complete package (empty tank, mounted generator set, and enclosure) to ensure safety.
- Emergency pressure relief vents. Vents ensure adequate venting of inner and outer tank under extreme pressure and/or emergency conditions.
- Normal vent with cap. Vent is raised above lockable fuel fill.
- Fuel level gauge with sender.
- Mechanical fuel level gauge.
- Leak detection switch. Annunciates a contained primary tank fuel leak condition at generator set control.
- Electrical stub-up area open to bottom.
- Additional 2 in. NPT fittings for optional accessories.

Subbase Fuel Tank Options

Bottom Clearance

- I-beams, provide 102 mm (4 in.) of ground clearance (not available with OSHPD or IBC seismic certification)

Emergency Vent Options

- 127 mm (5 in.), IBC
- 152.4 mm (6 in.), IBC KD800- 1000 12 hr. tank only

Fuel in Basin Options

- Fuel in basin switch, Florida Dept. of Environmental Protection (FDEP) File No. EQ-682 approved
- 100% engine fluid containment

Fuel Supply Options

- Fire safety valve (installed on fuel supply line)
- Ball valve (installed on fuel supply line)

Fuel Fill Options

- Fill pipe extension to within 152 mm (6 in.) of bottom of fuel tank
- 18.9 L (5 gallon) spill containment
- 18.9 L (5 gallon) spill containment with 95% shutoff
- 18.9 L (5 gallon) spill containment fill to within 152 mm (6 in.) of bottom of fuel tank
- 18.9 L (5 gallon) spill containment, OSHPD/IBC
- 18.9 L (5 gallon) spill containment with 95% shutoff, OSHPD/IBC
- 28.4 L (7.5 gallon) spill containment, Florida Dept. of Environmental Protection (FDEP) File No. EQ-345 approved
- 28.4 L (7.5 gallon) spill containment with 95% shutoff, Florida Dept. of Environmental Protection (FDEP) File No. EQ-345/EQ-257 approved

High Fuel Level Switch

- High fuel level switch, 24V
- High fuel level switch, 24V, Florida Dept. of Environmental Protection (FDEP) File No. EQ-682 approved
- Fuel tank panel, 3 alarm, 24 V
- Fuel tank panel, 3 alarm, 24 V, Florida Dept. of Environmental Protection (FDEP) File No. EQ-682 approved

Normal Vent Options

- 3.7 m (12 ft.) above grade (without spill containment)
- 3.7 m (12 ft.) above grade (with spill containment)

Freestanding Stairs

- Stairs only, single door access
- Stairs with platform, single door access
- Stairs with catwalk, 2 door access, door length only
- Stairs with catwalk, 2 door access, full length of enclosure

Tank Marking Options

- Decal, Combustible Liquids - Keep Fire Away (qty. 2)
- Decal, NFPA 704 identification (qty. 2)
- Decal, tank number and safe fuel fill height (qty. 2)

Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load (nominal)	Max. Dimensions, mm (in.)			Max. Weight, † kg (lb.)	Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) ‡
		Length	Width §	Height			
KD800 SL1 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *							
Lifting Base	0	6582 (259)	2616 (103)	3350 (132)	10184 (22452)	—	90
3475 (918)	12	7309 (288)		3706 (146)	13772 (30362)	356 (14.0)	
6621 (1749)	24			3934 (155)	14252 (31421)	584 (23.0)	
10573 (2793)	48			4264 (168)	14831 (32698)	914 (36.0)	
15740 (4158)	72	9144 (360)		4366 (172)	16242 (35808)	1016 (40.0)	
KD800 SL2 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *							
Lifting Base	0	7707 (303)	2616 (103)	3350 (132)	10587 (23340)	—	75
3475 (918)	12	8434 (332)		3706 (146)	14175 (31250)	356 (14.0)	
6621 (1749)	24			3934 (155)	14655 (32309)	584 (23.0)	
10573 (2793)	48			4290 (169)	15234 (33586)	915 (36.0)	
15740 (4158)	72	9144 (360)		4366 (172)	16645 (36696)	1016 (40.0)	
KD900 SL1 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *							
Lifting Base	0	6582 (259)	2616 (103)	3350 (132)	10497 (23343)	—	91
3475 (918)	12	7309 (288)		3706 (146)	14085 (31253)	356 (14.0)	
6621 (1749)	24			3934 (155)	14565 (32312)	584 (23.0)	
12969 (3426)	48			8400 (331)	4293 (169)	16348 (36243)	
19381 (5120)	72	11050 (435)		4369 (172)	17527 (38840)	1016 (40.0)	
KD900 SL2 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *							
Lifting Base	0	7707 (303)	2616 (103)	3350 (132)	10900 (24231)	—	75
3475 (918)	12	8434 (332)		3706 (146)	14488 (32141)	356 (14.0)	
6621 (1749)	24			3934 (155)	14968 (33200)	584 (23.0)	
12969 (3426)	48			4290 (169)	16751 (37131)	940 (37.0)	
19381 (5120)	72	11050 (435)		4366 (172)	17930 (39728)	1016 (40.0)	
KD1000 SL1 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *							
Lifting Base	0	6582 (259)	2616 (103)	3350 (132)	10810 (23833)	—	92
3475 (918)	12	7309 (288)		3706 (146)	14398 (31743)	356 (14.0)	
6621 (1749)	24			3934 (155)	14878 (32802)	584 (23.0)	
12969 (3426)	48			8400 (331)	4290 (169)	16661 (36733)	
19381 (5120)	72	11050 (435)		4366 (172)	17840 (39330)	1016 (40.0)	
KD1000 SL2 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *							
Lifting Base	0	7707 (303)	2616 (103)	3353 (132)	11213 (24721)	—	76
3475 (918)	12	8434 (332)		3706 (146)	14801 (32631)	356 (14.0)	
6621 (1749)	24			3934 (155)	15281 (33690)	584 (23.0)	
12969 (3426)	48			4290 (169)	17064 (37621)	940 (37.0)	
19381 (5120)	72	11050 (435)		4366 (172)	18243 (40218)	1016 (40.0)	
KD1250/1500 SL1 Sound Enclosure with Internal Silencers and State Code Subbase Fuel Tank *							
Lifting Base	0	8831 (348)	3033 (119)	3579 (141)	17116 (37748)	—	93
5863 (1549)	18/15	9594 (378)		3960 (156)	22326 (49234)	381 (15.0)	
9860 (2605)	30/25			4138 (163)	22808 (50296)	559 (22.0)	
11204 (2960)	34/28			4214 (166)	22973 (50661)	635 (25.0)	
19214 (5076)	58/48	11113 (438)		4468 (176)	25277 (55741)	889 (35.0)	
21985 (5808)	66/55			4570 (180)	25684 (56637)	991 (39.0)	
KD1250/1500 SL2 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *							
Lifting Base	0	10420 (410)	3033 (119)	3579 (141)	18031 (39764)	—	79
5863 (1549)	18/15	11147 (439)		3960 (156)	23241 (51250)	381 (15.0)	
9860 (2605)	30/25			4138 (163)	23723 (52312)	559 (22.0)	
11204 (2960)	34/28			4214 (166)	23888 (52677)	635 (25.0)	
19214 (5076)	58/48	11147 (439)		4468 (176)	26192 (57757)	889 (35.0)	
21985 (5808)	66/55			4570 (180)	26599 (58653)	991 (39.0)	

* Data in table is for reference only. Height includes enclosure, lift base, and tank (if equipped). Refer to your authorized Kohler distributor for enclosure and subbase fuel tank specification details.

† Max. weight includes the generator set (wet) with the largest alternator option, enclosure, silencers, lift base, and tank (no fuel).

‡ Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft.). Refer to TIB-114 for details. Enclosed generator set sound data for some models was not available at time of print.

§ An additional 940 mm (37 inches) of clearance on each side for opening and closing the access doors is recommended.

NOTE: If the Est. Fuel Supply Hours column shows more than one number, the numbers represent each model in that range.

Enclosure and Subbase Fuel Tank Specifications, continued

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load (nominal)	Max. Dimensions, mm (in.)			Max. Weight, † kg (lb.)	Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) ‡
		Length	Width §	Height			

KD1250-4 SL2 Sound Enclosure with State Code Subbase Fuel Tank ◆*

5863 (1549)	17	11147 (439)	3033 (119)	4640 (183)	22507 (49619)	381 (15.0)	75
11204 (2960)	33			4894 (193)	23731 (52318)	635 (25.0)	

KD1250-A/1350 SL1 Sound Enclosure with Internal Silencers and State Code Subbase Fuel Tank *

Lifting Base	0	8831 (348)	3033 (119)	3579 (141)	17116 (37748)	—	93
5863 (1549)	18/17	9594 (378)		3960 (156)	22326 (49234)	381 (15.0)	
9860 (2605)	30/29			4138 (163)	22808 (50296)	559 (22.0)	
11204 (2960)	34/32			4214 (166)	22973 (50661)	635 (25.0)	
19214 (5076)	58/56	11113 (438)		4468 (176)	25277 (55741)	889 (35.0)	
21985 (5808)	67/64			4570 (180)	25684 (56637)	991 (39.0)	

KD1250-A/1350 SL2 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *

Lifting Base	0	10420 (410)	3033 (119)	3579 (141)	18031 (39764)	—	76
5863 (1549)	18/17	11147 (439)		3960 (156)	23241 (51250)	381 (15.0)	
9860 (2605)	30/29			4138 (163)	23723 (52312)	559 (22.0)	
11204 (2960)	34/32			4214 (166)	23888 (52677)	635 (25.0)	
19214 (5076)	58/56			4468 (176)	26192 (57757)	889 (35.0)	
21985 (5808)	67/64			4570 (180)	26599 (58653)	991 (39.0)	

KD1600 SL1 Sound Enclosure with Internal Silencers and State Code Subbase Fuel Tank *

Lifting Base	0	8831 (348)	3033 (119)	3579 (141)	17343 (38248)	—	94
5863 (1549)	14	9594 (378)		3960 (156)	22553 (49734)	381 (15.0)	
9860 (2605)	23			4138 (163)	23035 (50796)	559 (22.0)	
11204 (2960)	26			4214 (166)	23200 (51161)	635 (25.0)	
19214 (5076)	45	11113 (438)		4468 (176)	25504 (56241)	889 (35.0)	
21985 (5808)	52			4570 (180)	25911 (57137)	991 (39.0)	

KD1600 SL2 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *

Lifting Base	0	10420 (410)	3033 (119)	3579 (141)	18258 (40264)	—	79
5863 (1549)	14	11147 (439)		3960 (156)	23468 (51750)	381 (15.0)	
9860 (2605)	23			4138 (163)	23950 (52812)	559 (22.0)	
11204 (2960)	26			4214 (166)	24115 (53177)	635 (25.0)	
19214 (5076)	45			4468 (176)	26419 (58257)	889 (35.0)	
21985 (5808)	52			4570 (180)	26826 (59153)	991 (39.0)	

KD1750 SL1 Sound Enclosure with Internal Silencers and State Code Subbase Fuel Tank *

Lifting Base	0	8831 (348)	3033 (119)	3579 (141)	17343 (38248)	—	95
5863 (1549)	13	9594 (378)		3960 (156)	22553 (49734)	381 (15.0)	
9860 (2605)	21			4138 (163)	23035 (50796)	559 (22.0)	
11204 (2960)	24			4214 (166)	23200 (51161)	635 (25.0)	
19214 (5076)	42	11113 (438)		4468 (176)	25504 (56241)	889 (35.0)	
21985 (5808)	48			4570 (180)	25911 (57137)	991 (39.0)	

KD1750 SL2 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *

Lifting Base	0	10420 (410)	3033 (119)	3579 (141)	18258 (40264)	—	79
5863 (1549)	13	11147 (439)		3960 (156)	23468 (51750)	381 (15.0)	
9860 (2605)	21			4138 (163)	23950 (52812)	559 (22.0)	
11204 (2960)	24			4214 (166)	24115 (53177)	635 (25.0)	
19214 (5076)	42			4468 (176)	26419 (58257)	889 (35.0)	
21985 (5808)	48			4570 (180)	26826 (59153)	991 (39.0)	

* Data in table is for reference only. Height includes enclosure, lift base, and tank (if equipped). Refer to your authorized Kohler distributor for enclosure and subbase fuel tank specification details.

◆ Tier 4 generator enclosure height includes the fuel tank and enclosure up to the exhaust flange. The height does not include the SCR, or the SCR inlet and outlet pipes.

✱ Tier 4 generator enclosure weight includes the DEF tank but does not include the SCR or the SCR inlet and outlet pipes.

† Max. weight includes the generator set (wet) with the largest alternator option, enclosure, silencers, lift base, and tank (no fuel).

‡ Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft.). Refer to TIB-114 for details. Enclosed generator set sound data for some models was not available at time of print.

§ An additional 940 mm (37 inches) of clearance on each side for opening and closing the access doors is recommended.

NOTE: If the Est. Fuel Supply Hours column shows more than one number, the numbers represent each model in that range.

Enclosure and Subbase Fuel Tank Specifications, continued

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load (nominal)	Max. Dimensions, mm (in.)			Max. Weight, † kg (lb.)	Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) ‡
		Length	Width §	Height			
KD2000/2250/2500 SL1 Sound Enclosure with Internal Silencers and State Code Subbase Fuel Tank *							
Lifting Base	0	10774 (424)	3488 (137)	4141 (163)	33073 (72909)	—	90
8577 (2266)	15/14/13	11465 (451)		4522 (178)	40485 (89252)	381 (15)	
14130 (3733)	25/22/22			4700 (185)	41216 (90861)	559 (22)	
16451 (4346)	29/26/25			4776 (188)	41497 (91483)	635 (25)	
KD2000/2250/2500 SL2 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *							
Lifting Base	0	12766 (503)	3488 (137)	4141 (163)	35121 (77426)	—	78
8577 (2266)	15/14/13	13491 (531)		4522 (178)	42533 (93766)	381 (15)	
14130 (3733)	25/22/22			4700 (185)	43264 (95378)	559 (22)	
16451 (4346)	29/26/25			4776 (188)	43545 (95997)	635 (25)	
KD2500-4 SL2 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank ▲**							
14130 (3733)	21	13491 (531)	3488 (137)	4907 (193)	43583 (96084)	559 (22)	78

* Data in table is for reference only. Height includes enclosure, lift base, and tank (if equipped). Refer to your authorized Kohler distributor for enclosure and sub-base fuel tank specification details.

▲ Tier 4 generator enclosure height includes the lift base, tank, and enclosure up to the exhaust flange. The height does not include the exhaust collector, SCR, or the SCR inlet and outlet pipes.

** Tier 4 generator enclosure weight includes the DEF tank but does not include the exhaust collector, SCR, or SCR inlet and outlet pipes.

† Max. weight includes the generator set (wet) with the largest alternator option, enclosure, silencers, lift base, and tank (no fuel).

‡ Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft.). Refer to TIB-114 for details. Enclosed generator set sound data for some models was not available at time of print.

§ An additional 940 mm (37 inches) of clearance on each side for opening and closing the access doors is recommended.

NOTE: If the Est. Fuel Supply Hours column shows more than one number, the numbers represent each model in that range.

Enclosure and Subbase Fuel Tank Specifications, continued

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load (nominal)	Max. Dimensions, mm (in.)			Max. Weight, † kg (lb.)	Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) ‡
		Length	Width §	Height			

KD2000/2250/2500 SL1 Sound Enclosure with Internal Silencers and State Code Subbase Fuel Tank *

Lifting Base	0	10774 (424)	3488 (137)	4141 (163)	33073 (72909)	—	90
8577 (2266)	15/14/13	11465 (451)		4522 (178)	40485 (89252)	381 (15)	
14130 (3733)	25/22/22			4700 (185)	41216 (90861)	559 (22)	
16451 (4346)	29/26/25			4776 (188)	41497 (91483)	635 (25)	

KD2000/2250/2500 SL2 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank *

Lifting Base	0	12766 (503)	3488 (137)	4141 (163)	35121 (77426)	—	78
8577 (2266)	15/14/13	13491 (531)		4522 (178)	42533 (93766)	381 (15)	
14130 (3733)	25/22/22			4700 (185)	43264 (95378)	559 (22)	
16451 (4346)	29/26/25			4776 (188)	43545 (95997)	635 (25)	

KD2500-4 SL2 Sound Enclosure with Internal Silencer and State Code Subbase Fuel Tank ▲**

14130 (3733)	21	13491 (531)	3488 (137)	4907 (193)	43583 (96084)	559 (22)	78
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* Data in table is for reference only. Height includes enclosure, lift base, and tank (if equipped). Refer to your authorized Kohler distributor for enclosure and sub-base fuel tank specification details.

▲ Tier 4 generator enclosure height includes the lift base, tank, and enclosure up to the exhaust flange. The height does not include the exhaust collector, SCR, or the SCR inlet and outlet pipes.

** Tier 4 generator enclosure weight includes the DEF tank but does not include the exhaust collector, SCR, or SCR inlet and outlet pipes.

† Max. weight includes the generator set (wet) with the largest alternator option, enclosure, silencers, lift base, and tank (no fuel).

‡ Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft.). Refer to TIB-114 for details. Enclosed generator set sound data for some models was not available at time of print.

§ An additional 940 mm (37 inches) of clearance on each side for opening and closing the access doors is recommended.

NOTE: If the Est. Fuel Supply Hours column shows more than one number, the numbers represent each model in that range.

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Moreno Valley Walmart

NOISE IMPACT ANALYSIS

CITY OF MORENO VALLEY

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9 OPERATIONAL NOISE IMPACTS

This section analyzes the potential operational noise impacts resulting from the development of the proposed Moreno Valley Walmart. Using a stationary-source noise prediction model, calculations of the Project operational noise level impacts were completed.

9.1 OPERATIONAL NOISE STANDARDS

The Noise Ordinance included in the City of Moreno Valley Municipal Code provides performance standards and noise control guidelines for determining and mitigating non-transportation or stationary/area noise source impacts from operations at private properties. The maximum allowable stationary/area-source noise levels are regulated pursuant to the City of Moreno Valley Municipal Code, Chapter 11.80 Noise Regulation (Sections 11.80.010 through 11.80.060). The City of Moreno Valley Noise Ordinance is included in Appendix 3.3.

To conform with applicable provisions of the Municipal Code, the maximum allowable noise generated by area/stationary sources when measured at 200 feet from any property line, shall not exceed 65dBA Leq during daytime hours (8:00 a.m. to 10:00 p.m. the same day); and shall not exceed 60 dBA Leq during nighttime hours (10:01 p.m. to 7:59 a.m. the following day).

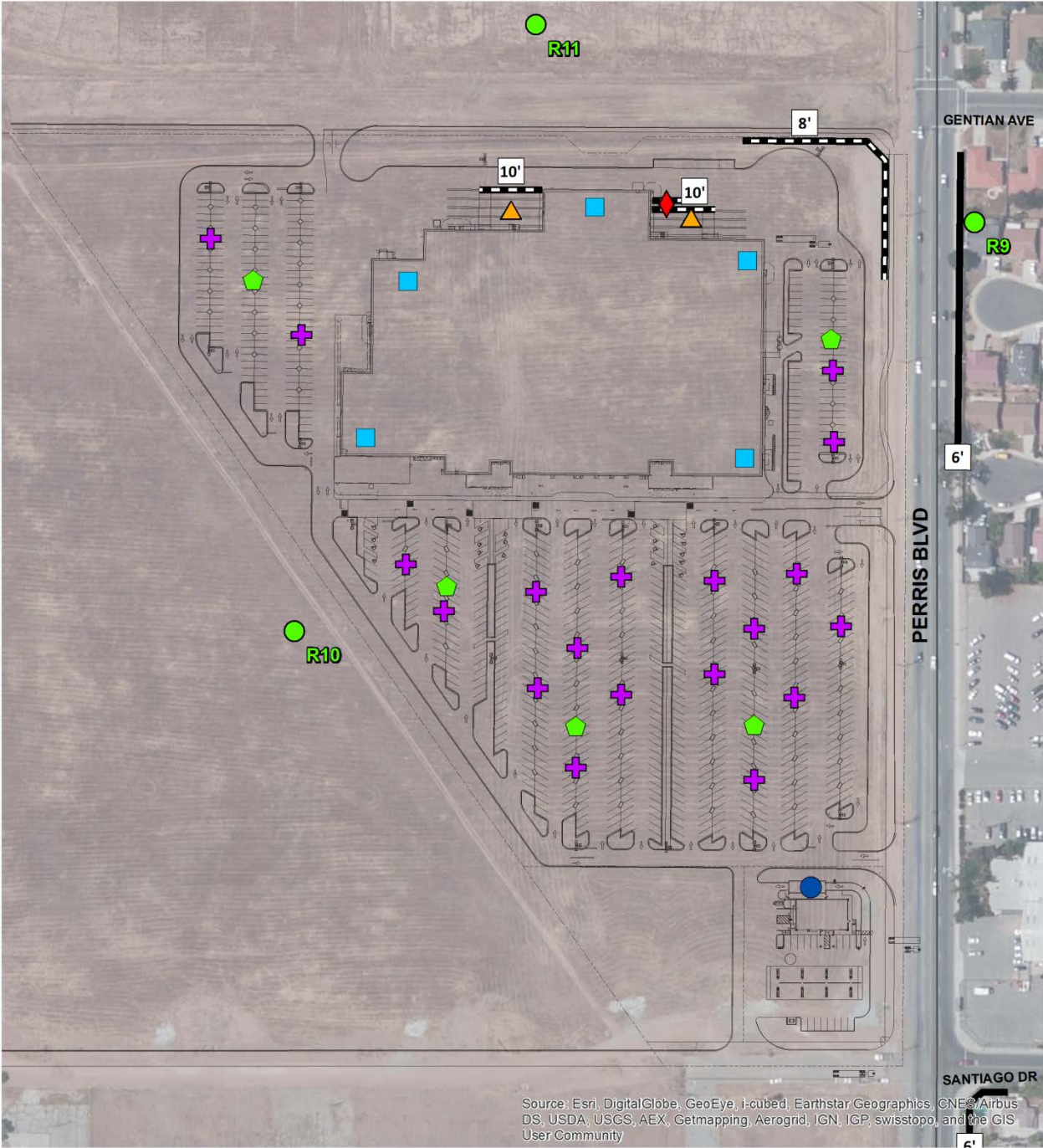
9.2 OPERATIONAL NOISE SOURCES

The operational noise impacts associated with the proposed Project are expected to include loading docks, trash compactors, roof-top air condenser units, shopping cart carousels, parking lot, and car wash activities as indicated on Exhibit 9-A. The proposed Project design features which include an 8-foot high barrier at the northeast corner of the Project site and 10-foot high barriers at the trash compactor and truck loading areas are shown on Exhibit 9-A. Exhibit 8-A identifies the location of the eleven noise receptor locations used to assess the operational noise level impacts, as well as the existing barrier locations. Noise sensitive receptor locations R10 and R11 represent the residential neighborhoods planned north and west of the Project site.

9.3 REFERENCE NOISE LEVELS

To estimate the Project operational noise impacts, reference noise level measurements were collected from similar types of activities to represent the noise levels expected with the development of the proposed Project. This section provides a detailed description of the reference noise level measurements shown on Table 9-1 used to estimate the Project operational noise impacts. It is important to note that the following projected noise levels assume the worst-case noise environment with the loading docks, trash compactors, roof-top air condenser units, shopping cart carousels, parking lot and car wash activities all operating simultaneously. In reality, these noise level impacts will vary throughout the day.

EXHIBIT 9-A: OPERATIONAL NOISE SOURCE LOCATIONS



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

LEGEND:

- Air Conditioning Unit
 - ▲ Loading Dock
 - ⬠ Parking Lot
- + Shopping Cart Carousel
 - Car Wash
 - ◆ Trash Compactor
- Noise Receiver Locations
 - 10' Noise Barrier Height (in feet)
 - Proposed Barrier Location
 - Existing Barrier Location

TABLE 9-1: REFERENCE NOISE LEVEL MEASUREMENTS

Noise Source	Duration (mm:ss)	Distance From Source (Feet)	Noise Source Height (Feet)	Hourly Activity (Minutes) ⁶	Hourly (Leq dBA)
Loading Dock Activities ¹	1:00	20'	8'	18	77.3
Trash Compactor ²	2:22	5'	5'	20	75.5
Air Condenser ³	1:00	5'	25'	30	81.9
Shopping Cart Carousel ⁴	0:16	5'	3'	20	72.9
Parking Lot Activity ⁴	15:00	5'	4'	60	60.1
Car Wash ⁵	8:43	10'	9'	30	76.5

¹ As measured at the Huntington Beach Walmart by Urban Crossroads, Inc. on 4/14/2011.

² As measured at the Irvine Walmart Supercenter located on 16555 Von Karman Avenue by Urban Crossroads, Inc. on 1/23/2014.

³ As measured by Urban Crossroads, Inc. on 10/13/2010 at the Rancho Cordova Walmart #2457.

⁴ As measured by Urban Crossroads, Inc. on 5/30/2012 at the Laguna Niguel Walmart located at 27470 Alicia Parkway.

⁵ As measured by Urban Crossroads, Inc. on 11/8/2013 at the Plano Trabuco Shell Gas Station Car Wash.

⁶ Duration (minutes within the hour) of noise activity during peak hourly conditions.

9.3.1 LOADING DOCKS

As part of its operations, the proposed Moreno Valley Walmart will include truck doors and loading facilities at the rear of the store. Loading docks will be located along the store’s northerly (rear) elevation to accommodate truck and vendor deliveries. Truck deliveries may occur 24 hours per day, and would consist of both semi-trucks (larger deliveries would be accomplished by way of 3+ axle tractor-trailer combinations with trailers up to 53 feet in length), and small to medium size (two-axle) trucks.

It is expected that the loading docks would be constructed to allow trailers to seal to the docks, thereby directing the unloading noise into the store, rather than onto neighboring uses. The loading dock areas would also be screened by a proposed 10-foot high wall as shown in Exhibit 9-A. In order to evaluate the noise impacts associated with the delivery truck tractor trailer unloading/loading activities, reference noise level measurements were taken at the Huntington Beach Walmart located at the southwest corner of Goldenwest Street and Edinger Avenue by Urban Crossroads Inc. on April 14th, 2011.

The primary noise generated by tractor trailer unloading is the noise of the truck arriving, backing into the dock area, detaching the cab, attaching the cab to the empty trailer, and exiting the loading dock. Because the trailer seals to the loading dock, employees unload the tractor trailer from the inside of the store. The receiving crew places a 20' long rolling conveyor assembly inside the trailer to roll merchandise (on pallets or in boxes) into the store. The unmitigated noise level was measured at 77.3 dBA Leq at a distance of 20 feet from the tractor trailer. Delivery truck delivery activities will last an average of 3–6 minutes per truck, depending on whether or not the loading bay is empty at the time of arrival. In the event idling does occur, idling time would be limited to no more than 5 minutes under California State law (Cal Code Regs. 2485). Delivery trucks are generally equipped with an engine shutdown system that automatically turns off the engine after 5 minutes of idling. In order to analyze a worst-case condition for noise impacts related to delivery, it is assumed that there would be a

maximum of three delivery trucks coming to the loading docks and completing delivery activities within a 1-hour period for both daytime and nighttime hours. For the purpose of this noise analysis, a maximum average delivery time of 6 minutes per delivery is used for a total of 18 minutes of activity during the peak noise hour.

9.3.2 TRASH COMPACTORS

In order to assess the impacts created by the trash compactors planned on the Project site, reference noise levels were gathered from the Irvine Walmart Supercenter located on 16555 Von Karman Avenue, by Urban Crossroads Inc. on Thursday, January 23rd, 2014. The unmitigated exterior noise levels were measured at 75.5 dBA Leq at a distance of 5 feet from the compactor. A review of the site plan shows a proposed trash compactor located behind the planned 10-foot high screen wall. It is expected the trash compactor will operate for a maximum of 20 minutes during typical hourly daytime and nighttime conditions.

9.3.3 AIR CONDENSER UNITS

In order to assess the impacts created by the roof-top air conditioning units at the planned Project site, reference noise levels measurements were taken at the Rancho Cordova Walmart on October 13th, 2010. Located at 10655 Folsom Boulevard in the City of Rancho Cordova, the noise level measurements describe a cluster of mechanical rooftop condensers. The cluster consists of two Krack MXE-04 4-fan units and one MXE-02 2-fan unit. At a distance of 5 feet for the cluster of rooftop condensers, the exterior noise levels were measured at 81.9 dBA Leq. For the purpose of this noise analysis, the air condenser units were observed to be located on the roof at a noise elevation of 25 feet and are estimated to operate for approximately 30 minutes during typical daytime and nighttime conditions. The potential noise attenuation provided by a parapet wall was not included as part of this analysis.

9.3.4 SHOPPING CART CAROUSEL (METAL CARTS)

To evaluate the noise level impacts from shopping carts placed by customers into assigned shopping cart areas, Urban Crossroads collected noise level measurements at the Laguna Niguel Walmart located at 27470 Alicia Parkway on May 30th, 2012. At a distance of 5 feet from the noise source, the noise associated with the placement of the shopping carts into the carousel was measured at 72.9 dBA Leq. The noise impacts are mainly due to the metal shopping carts crashing into other carts already placed in the carousel as well as striking the side rails. This noise impact analysis includes the noise level impacts associated with the adjacent shopping cart carousels with noise impacts expected for approximately 20 minutes an hour for the typical daytime and nighttime conditions.

9.3.5 PARKING LOT ACTIVITY

To determine the noise level impacts associated with parking lot noise, Urban Crossroads collected reference noise level measurements at the at the Laguna Niguel Walmart located at 27470 Alicia Parkway on May 30th, 2012. The fifteen minute noise level measurement indicates that the parking lot activity generates a noise level of 60.1 dBA Leq at a distance of 5 feet. The parking lot noise levels are mainly due to cars pulling in and out of spaces, car alarms sounding,

and customers moving shopping carts. Noise associated with parking lot activity is expected during the typical daytime and nighttime conditions for the entire hour (60 minutes).

9.3.6 CAR WASH

To describe the potential noise level impacts associated with the planned car wash at the southeast corner of the Project site, a reference noise level measurement was collected on November 8th, 2013 at the Plano Trabuco Shell Gas Station car wash. The reference noise level measurement includes one complete car wash cycle. The high powered blowers that are used to dry the car at the end wash cycle represent the primary source of car wash noise. As shown on Table 9-1, at a distance of 10 feet from the exit tunnel and blowers, a reference noise level of 76.5 dBA Leq was measured. Noise associated with car wash activity is expected during the typical daytime and nighttime conditions for approximately 30 minutes an hour.

9.4 PROJECT OPERATIONAL NOISE LEVELS

Based upon the reference noise levels, it is possible to estimate the Project operational stationary/area source noise levels at a distance of 200 feet and at each of the eleven noise receptor locations. The operational noise level calculations shown on Tables 9-2 and 9-3 account for the distance attenuation provided due to geometric spreading, when sound from a localized stationary source (i.e., a point source) propagates uniformly outward in a spherical pattern. With geometric spreading, sound levels attenuate (or decrease) at a rate of 6 dB for each doubling of distance from a point source.

Table 9-2 presents the combined total operational noise level projections at a distance of 200 feet consistent with the City of Moreno Valley Municipal Code. Table 9-2 indicates that the unmitigated hourly noise levels for each noise source are expected to range from 28.1 dBA Leq for the Parking Lot activities to 52.1 dBA Leq for the Loading Dock Activities.

When combined with the existing ambient noise levels, the Project operational noise levels at a distance of 200 feet are estimated at 54.4 dBA Leq. The Project operational noise levels associated with the proposed Moreno Valley Walmart will not exceed the daytime and nighttime exterior noise level standards for commercial uses of 65 dBA Leq and 60 dBA Leq, respectively at a distance of 200 feet and, therefore, will be less than significant.

Table 9-3 presents the exterior noise levels including the barrier attenuation provided by the proposed 8-foot high barrier at the northeastern Project site boundary, the proposed 10-foot high barriers at the loading docks and trash compactor areas, and the existing noise barriers observed within the Project study area, as shown on Exhibit 9-A. Table 9-3 indicates that the hourly noise levels associated with the Moreno Valley Walmart at the eleven noise sensitive receptor locations are expected to range from 27.9 dBA Leq at receptor location R8 to 47.1 dBA Leq at receptor location R11. The operational noise level calculations are included in Appendix 9.1.

Pomona Ranch Plaza Walmart Expansion Project

Draft Environmental Impact Report



Prepared for:
The City of Pomona
505 S. Garey Avenue
Pomona, CA 91766

Prepared by:
Applied Planning, Inc.
5817 Pine Avenue, Suite A
Chino Hills, CA 91709

August 2014

**DRAFT ENVIRONMENTAL
IMPACT REPORT**

for the

Pomona Ranch Plaza Walmart Expansion Project

Prepared for:

City of Pomona
505 S. Garey Avenue
Pomona, CA 91766

Prepared by:

Applied Planning, Inc.
5817 Pine Avenue, Suite A
Chino Hills, CA 91709

August 2014

Level of Significance: Less-Than-Significant.

OPERATIONAL/AREA-SOURCE NOISE

Potential Impact: *Project operational/area-source noise would result in a substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project.*

Impact Analysis: The general and persistent level of activity within the site may result in a permanent substantial increase in ambient noise levels. Additionally, certain short term periodic noise events may exceed applicable Noise Ordinance Standards. Characteristic Project noise sources contributing to average noise levels include: truck loading/unloading docks, roof-top air condenser units, shopping cart corrals, and parking lot activities. Locations of these anticipated noise sources are indicated at previous Figure 4.4-2. Noise receiver locations R1 through R3, also indicated at previous Figure 4.4-2, were again used to represent the nearest off-site residential and commercial noise receptor locations, respectively. The following assessments address noise levels that could result from each noise category, and each type of activity within these categories.

Reference Noise Levels

Reference noise levels that would be generated by Project stationary/area sources are summarized at Table 4.4-5, and are described subsequently.

**Table 4.4-5
Reference Noise Level Measurements**

Noise Sources¹	Duration (minutes)	Distance From Source (Feet)	Noise Source Height (Feet)	Hourly Activity² (Minutes)	Noise Level (Leq dBA)
Loading Dock Activities	1:00	20.0	8.0	18	77.3
Air Condenser	1:00	5.0	5.0	30	81.9
Shopping Cart Corral	0:16	5.0	3.0	20	72.9
Parking Lot Activity	15:00	5.0	4.0	60	60.1

Source: Walmart 191 Expansion Traffic Impact Analysis, City of Pomona, California (Urban Crossroads, Inc.), February 24, 2014

¹ Noise reference measurement sources provided in the Project Noise Study (Draft EIR Appendix E, Table 5-1).

² Duration (minutes within the hour) of noise activity during peak hourly conditions.

Truck Loading/Unloading

As part of its operations, the Walmart building would include truck doors and loading facilities at the rear of the store. Six delivery docks are proposed along the store's easterly elevation. Truck deliveries may occur 24 hours per day, and would consist of both larger, semi-trucks (3 + axle tractor-trailer combinations with trailers up to 53 feet in length), and small to medium size (two-axle) trucks.

Loading docks would be recessed below grade and would be constructed to allow trailers to seal to the docks, thereby directing the unloading noise into the store, rather than onto neighboring uses. As designed and constructed, all Project loading dock areas (along with proposed trash compactors and pallet storage areas proposed at the rear of the Walmart store) would be screened to reduce potential fugitive light/noise impacts.

Noise sources associated with the typical operation of loading docks include maneuvering, loading and unloading of delivery trucks (large and small), refrigeration equipment, engine idling, and airbrakes. Delivery truck activities would last an average of three to six minutes per truck, depending on whether or not the loading bay is empty at the time of arrival. In the event idling does occur, idling time would be limited to no more than five minutes under State law (California Code of Regulations, Title 13 Section 2485). Delivery trucks are generally equipped with an engine shutdown system that automatically turns off the engine after five minutes of idling. To establish a likely maximum impact scenario, the Project Noise Study reflects three truck deliveries within a one-hour period under both daytime and nighttime conditions. A maximum average

delivery time of 6 minutes for each truck was modeled, yielding a total of 18 minutes of peak noise activity during the analysis hour.

Air Conditioning Units

In order to assess the impacts created by the roof-top air conditioning units at the planned Project site, reference noise level measurements were taken at the Rancho Cordova Walmart on October 13, 2010, located at 10655 Folsom Boulevard in the City of Rancho Cordova. The noise level measurements describe a cluster of mechanical rooftop condensers consisting of two Krack MXE-04 4-fan units and one MXE-02 2-fan unit. It is anticipated that acoustically similar or quieter mechanical rooftop condensers would be implemented under the Project. At a distance of 5 feet for the cluster of rooftop condensers, the exterior noise levels were measured at 81.9 dBA Leq. For the purpose of this noise analysis, the air condenser units were observed to be located on the roof at a noise elevation of 25 feet and are estimated to operate for approximately 30 minutes during typical daytime and nighttime conditions. Potential noise attenuation that would be provided by rooftop mechanical equipment screening and parapet walls was not assumed in the analysis.

Shopping Cart Corrals

To evaluate the noise level impacts from shopping carts placed by customers into assigned shopping cart areas, Urban Crossroads collected noise level measurements at the Laguna Niguel Walmart on May 30, 2012. At a distance of five (5) feet from the noise source, the noise associated with the placement of the shopping carts into the corral was measured at 72.9 dBA Leq. The noise impacts are primarily due to the metal shopping carts crashing into other carts already placed in the corral, as well as striking the side rails. Noise impacts can be expected to occur for approximately 20 minutes an hour during typical daytime and nighttime conditions.

Parking Lot Activity

To determine the noise level impacts associated with parking lot noise, Urban Crossroads collected reference noise level measurements at the Laguna Niguel Walmart on May 30, 2012. The fifteen minute noise level measurement collected there indicates

that parking lot activity generates a noise level of 60.1 dBA Leq at a distance of five feet. Parking lot noise levels are primarily due to cars pulling in and out of spaces, car alarms sounding, and customers moving shopping carts. Noise associated with parking lot activity during the typical daytime and nighttime conditions are assumed for the entire analysis hour.

Summary of Project Operational/Area-Source Noise Contributions

Based on the reference noise levels and noise source characteristics and parameters described previously, Table 4.4-6 summarizes estimated noise levels that would be received at potentially affected noise-sensitive receptors (Receptors R1, R2, R3 indicated at previous Figure 4.4-2). The expected noise level impacts reflect distance attenuation due to geometric spreading, wherein sound from a localized stationary source propagates uniformly outward in a spherical pattern. With geometric spreading, sound levels attenuate (or decrease) at a rate of 6 dB for each doubling of distance from a point source. Attenuating factors other than distance were not assumed.

**Table 4.4-6
Maximum Project Operational Source Noise at
Area Sensitive Receptors**

Noise Source	Noise Levels at Receiver Locations (dBA Leq)		
	R1	R2	R3
Loading Dock Activities	36.8	42.1	32.0
Air Condenser	33.1	37.5	27.7
Shopping Cart Corral	20.2	23.9	16.6
Parking Lot Activity	12.6	19.4	8.7
Combined Noise Levels	38.4	43.5	33.5

Source: Walmart 191 Expansion Traffic Impact Analysis, City of Pomona, California (Urban Crossroads, Inc.), February 24, 2014.

As indicated at Table 4.4-6, maximum Project operational source noise levels at potentially affected area sensitive receptors is estimated at 43.5 dBA. This noise level would not exceed the most restrictive City Noise Ordinance daytime/nighttime standards of 60 dBA and 50 dBA respectively. It is noted also that the received noise levels would be substantively lower than the ambient noise condition of > 70 dBA.