

**Project name:**  
Jordan High School Environmental Analysis

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**Date:**  
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# Technical Memorandum

**Subject:** Noise Monitoring Survey at Jordan High School

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## Introduction

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Jordan High School (JHS) is a public four-year high school owned and operated by the Los Angeles Unified School District (LAUSD) at 2265 East 103<sup>rd</sup> Street in the city of Los Angeles (City), California. The LAUSD Office of Environmental Health and Safety (OEHS) is receiving ongoing complaints from JHS staff and students pertaining to noise being generated at the adjacent Atlas Iron & Metal Company (Atlas) property at 10019 South Alameda Street and abutting the JHS northeastern property boundaries. Complaints received at OEHS include the disruption of focus for students and staff in classroom settings (i.e., indoors) and the disruption of conversations and/or focus for students and staff in outdoor areas surrounding the Atlas facility. Land uses surrounding JHS and the Atlas facility include newly-constructed multi-family residential uses to the north (with some buildings still under construction), multi-family residential uses to the west and southwest, single-family residential uses to the south, a trucking company and pipe fabrication company to the southeast, and shipping and receiving warehouses and a school (LAUSD Southeast Middle School) to the east. Multiple transportation noise sources comprise the existing noise environment in the study area including regular vehicle traffic on North and South Alameda Street, intermittent freight rail traffic on the beneath-grade rail corridor between the northbound and southbound lanes of Alameda Street, and regular aircraft flyovers from aircraft approaching the Los Angeles International Airport (LAX). The intent of this study is to collect and present current noise level information on locations on JHS property to quantify noise contributions from operations at the Atlas facility and to assess that contribution for compliance with applicable portions of the Los Angeles Municipal Code.

Figures 1 and 2 show an overview and detailed view of the JHS and Atlas facility vicinity with parcel boundaries superimposed on aerial imagery, respectively.

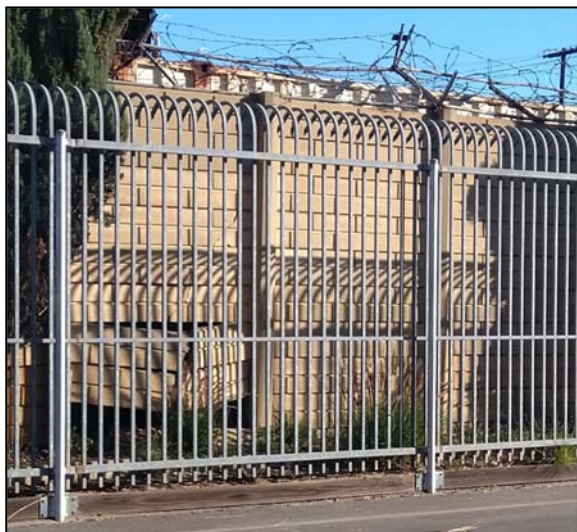


Figure 1. Overview of Site Vicinity with LAUSD Jordan High School and Atlas-Owned Properties



Figure 2. Detailed Property Boundaries of Jordan High School and the Atlas Iron & Metal Company

The western and southern property line of the Atlas property feature estimated 12 to 15-foot-tall walls along the perimeter. On the southern boundary, perimeter walls appear to be constructed of faux-masonry plastic wall panels. On the western boundary, perimeter walls appear to be constructed of unknown material that may be of real or faux-masonry construction. Figures 3 and 4 show detail on the existing Atlas property line walls as seen from the JHS property.



**Figure 3. Faux-Masonry Wall along Southern Boundary of Atlas Property**



**Figure 4. Wall along Western Boundary of Atlas Property (Unknown Construction Material)**

Based on observations from the JHS property, the Atlas facility appears to collect, process, and store scrap metals delivered by trucks. Activities on site include dumping of scrap metal from truck deliveries and the piling, spreading, and compacting of delivered scrap metal around the Atlas property. Scrap metals are moved about the property and organized into piles using a variety of material handlers (excavator-like tractors outfitted with specialized grapple and/or magnetic plate attachments). Figure 5 shows a photograph of a material handler amid scrap metal piles as apparently taken from within the Atlas facility.



Source: Atlas Iron & Metals Co. 2019

**Figure 5. Sample of Scrap Metal Piles and On-Site Material Handler at the Atlas Site**

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## Acoustical Terminology

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The following summaries of acoustical terms, metrics, and descriptors provide references for the discussion of acoustics in this technical document.

- *Sound* – For this analysis, sound is a physical phenomenon generated by vibrations that result in waves that travel through a medium, such as air, and result in auditory perception by the human brain.
- *Noise* – Noise is usually defined as unwanted or disruptive sound. Whether something is perceived as a noise event is influenced by the type of sound, the perceived importance of the sound, its appropriateness in the setting, the time of day and the type of activity during which the noise occurs, and the sensitivity of the listener. Local jurisdictions may have legal definitions on what constitutes “noise” and such environmental parameters to consider.
- *Amplitude or Level* – Amplitude is measured in decibels (dB) using a logarithmic scale. A sound level of 0 dB is approximately the threshold of human hearing and is barely audible under extremely quiet listening conditions. Normal speech has a sound level of approximately 60 dB. Sound levels above approximately 110 dB begin to be felt inside the human ear as discomfort and eventually as pain at 120 dB and higher levels. The minimum change in the sound level of individual events that an average human ear can detect is about 1 to 2 dB. A 3 to 5 dB change is readily perceived. A change in sound level of about 10 dB usually is perceived by the average person as a doubling (or if decreasing by 10 dB, halving) of the sound’s loudness.
- *Sound pressure* – Sound level usually is expressed by reference to a known standard. This document refers to sound pressure level (SPL or  $L_p$ ). In expressing sound pressure on a logarithmic scale, the sound pressure is compared to a reference value of 20 micropascals ( $\mu\text{Pa}$ ).  $L_p$  depends not only on the power of the source, but also on the distance from the source and the acoustical characteristics of the space surrounding the source.
- *A-weighting* – Sound from a tuning fork contains a single frequency (a pure tone), but most sounds perceived by the human ear in the environment do not consist of a single frequency, but instead are composed of a broad band of frequencies differing in sound level. The method commonly used to quantify environmental sounds consists of evaluating all frequencies of a sound according to a weighting system that reflects the typical frequency-dependent sensitivity of average healthy human hearing. This is called “A-weighting,” and the decibel level measured is referred to as dBA. In practice, the level of a noise source is conveniently measured using a sound level meter that includes a filter corresponding to the dBA “curve” of decibel adjustment per octave band center frequency (OBCF) from a “flat” or unweighted SPL.
- *Equivalent sound level* – Environmental noise levels vary continuously and include a mixture of noise from near and distant sources. A single descriptor,  $L_{eq}$ , may be used to describe such sound that is changing in level from one moment to another.  $L_{eq}$  is the energy-average sound level during a measured time interval. It is the “equivalent” constant sound level that would have to be produced by a single, steady source to equal the acoustic energy contained in the fluctuating sound level measured.
- *Maximum or minimum sound level* ( $L_{max}$  or  $L_{min}$ ) – These values are indicators that represent the root mean square (RMS) maximum and minimum noise levels during a given monitoring interval. The  $L_{min}$  value obtained for a particular monitoring location often is called the “noise floor.”

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## City of Los Angeles Municipal Code

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Chapter 11 – Noise Regulation of the City of Los Angeles Municipal Code (City Code) (Los Angeles 2021) provides noise level limits on various types of noise sources based on their character and the noise-sensitive receptors or land uses being affected. Definitions important for the interpretation of the pertinent sections of the noise code discussed in this memorandum are as follows:

### 111.01 DEFINITIONS

**“Ambient Noise”** is the composite of noise from all sources near and far in a given environment, exclusive of occasional and transient intrusive noise sources and of the particular noise source or sources to be measured. Ambient noise shall be averaged over a period of at least 15 minutes at a location and time of day comparable to that during which the measurement is taken of the particular noise source being measured.

**“Sound Level”** (Noise level) in decibels (dB) is the sound measured with the “A” weighting and slow responses by a sound level meter; except for impulsive or rapidly varying sounds, the fast response shall be used.

Additional definitions in this section of the City Code stipulate the minimum specifications for the instruments used to collect sound level data. All instrumentation used in the collection of sound level data (discussed in subsequent sections of this memorandum) meet or exceed the City Code definitions for both “Octave Band Noise Analyzer” and “Sound Level Meter”. A full copy of the City Code including all definitions is provided as Attachment A.

Section 111.02 of the City Code describes the procedures required for conducting outdoor sound pressure level measurements.

### 111.02 SOUND LEVEL MEASUREMENT PROCEDURE AND CRITERIA

- (a) Any sound level measurement made pursuant to the provisions of this chapter shall be measured with a sound level meter using the “A” weighting and response as indicated in Section 111.01(k) of this article.

*Except when impractical, the microphone shall be located four to five feet above the ground and ten feet or more from the nearest reflective surface. However, in those cases where another elevation is deemed appropriated [sic], the latter shall be utilized.*

*Interior sound level measurements shall be made at a point at least four feet from the wall, ceiling, or floor nearest the noise source.*

*Calibration of the sound level meter, utilizing an acoustic calibrator shall be performed immediately prior to recording any sound level data. The ambient noise level and the level of a particular noise being measured shall be the numerical average of noise measurements taken at a given location during a given time period.*

The City Code assesses noise generated by sources and activities such as those hosted on the Atlas property by using an “increase-over-ambient” type of compliance determination. This assessment approach considers the relative contribution of noise from the offending noise source/property based on the existing ambient noise level at an assessment location on the receiving property. This means in areas with levels of high ambient noise (e.g., next to a freeway), the allowable contribution from an

offending noise source is greater because it will take more contribution from the offending noise source to greatly exceed the high ambient noise level. Conversely, in areas with levels of low ambient noise (e.g., a quiet suburban neighborhood), allowable noise contribution by an offending noise source is scaled down and it is easier to greatly exceed the quieter ambient noise level.

Since ambient levels can be prohibitively low for offending noise sources, the City Code outlines minimum ambient noise levels in Section 111.03. Subsequent sections of this memorandum will show that ambient noise levels at the study site were much greater than these minimum values. Thus, the minimum ambient noise levels stipulated in the City Code are not required for this compliance assessment.

Section 112.04 directly stipulates the noise level criteria that AECOM considers appropriate and relevant to the assessment of noise levels generated by operations at the Atlas site and received on JHS property.

#### **112.04 POWERED EQUIPMENT INTENDED FOR REPETITIVE USE IN RESIDENTIAL AREAS AND OTHER MACHINERY, EQUIPMENT, AND DEVICES**

*(b) Except as to the equipment and operations specifically mentioned and related elsewhere in this Chapter or for emergency work as that term is defined in Section 111.01(d), and except as to aircraft, tow tractors, aircraft auxiliary power units, trains and motor vehicles in their respective operations governed by State or federal regulations, no person shall operate or cause to be operated any machinery, equipment, tools, or other mechanical or electrical device, or engage in any other activity in such manner as to create any noise which would cause the noise level on the premises of any other occupied property, or, if a condominium, apartment house, duplex, or attached business, within any adjoining unit, to exceed the ambient noise level by more than five (5) decibels*

Under the assumption that the City would qualify an educational land use as an “occupied property” or equally noise-sensitive as residential areas, the above City Code Section 112.04 limits noise generated by the Atlas facility to the ambient noise level plus 5 dB. For example, if established ambient noise levels are 60 dBA at an assessment location on JHS property, the aggregate sound level (i.e., ambient noise level plus contribution from Atlas facility operations) must not exceed 65 dBA.

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## Sound Data Collection

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### Instrumentation

Sound pressure level monitoring was performed with Larson Davis (LD) Model LxT sound level meters (SLMs), rated by the American National Standards Institute (ANSI) as Class 1, per ANSI S1.4-2014. The SLM microphones were fitted with open-cell foam windscreens and positioned roughly 5 feet above grade and placed at least 10 feet from any acoustically reflecting surfaces. The SLMs were set using slow time-response and the A-weighting scale and were set to collect sound level and OBCF data at both 1-minute and 1-second intervals. SLM calibration was field-checked before and after each measurement period with an LD Model CAL200 acoustic calibrator. Additionally, all SLMs and the handheld acoustic calibrator were laboratory-calibrated with passing marks within one year of the noise monitoring dates (calibration certificates are available upon request).

## Procedure

Sound pressure level measurements were conducted across three (3) non-consecutive monitoring days on the JHS property:

- **Monday – February 22, 2021**, from approximately 7:30 a.m. until 12:00 p.m.
- **Wednesday – February 24, 2021**, from approximately 7:00 a.m. until 12:00 p.m.
- **Monday – March 1, 2021**, from approximately 7:00 a.m. until 12:00 p.m.

Two key noise monitoring positions (NMP) were identified on the JHS property to assess noise contributions from the Atlas facility. Figure 6 shows the location of the two NMP in relation to the property boundary.



**Figure 6. Noise Monitoring Positions on Jordan High School Property**

The NMPs were attended full-time by a noise control specialist who continuously observed the acoustical conditions of the assessment area. The noise control specialist recorded time-stamped observations of perceived major noise events from the non-Atlas noise sources (e.g., aircraft flyovers)

and from operations at the Atlas facility. Detailed observation logs are available in Attachment B. Photos of measurement locations are available in Attachment C.

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## Establishing the Ambient Noise Level

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Three days of sound level monitoring were conducted at the JHS property. Only one of the three days (Monday, February 22) featured what on-site staff considered “typical” operating noise contributions from the Atlas facility. Noise levels generated by the Atlas facility during the other two monitoring days (Wednesday, February 24 and Monday, March 1) were limited and thus, serve as a suitable representative baseline upon which to establish the “ambient” noise levels across the morning monitoring period.

During the ambient measurements, operations at the Atlas facility were not completely silent. Due to the short interval periods used for data collection, short periods of intensive noise contribution from the Atlas facility were mathematically removed from the data to better-represent the true ambient noise levels (i.e., noise levels without contribution from Atlas facility operations) at the assessment locations. All omitted intervals are highlighted and adjoined with observed event notes for data transparency in Attachment C.

Figures 7 and 8 show the measured hourly Leq sound pressure levels collected during the two ambient monitoring dates at sites NMP1 and NMP2, respectively.



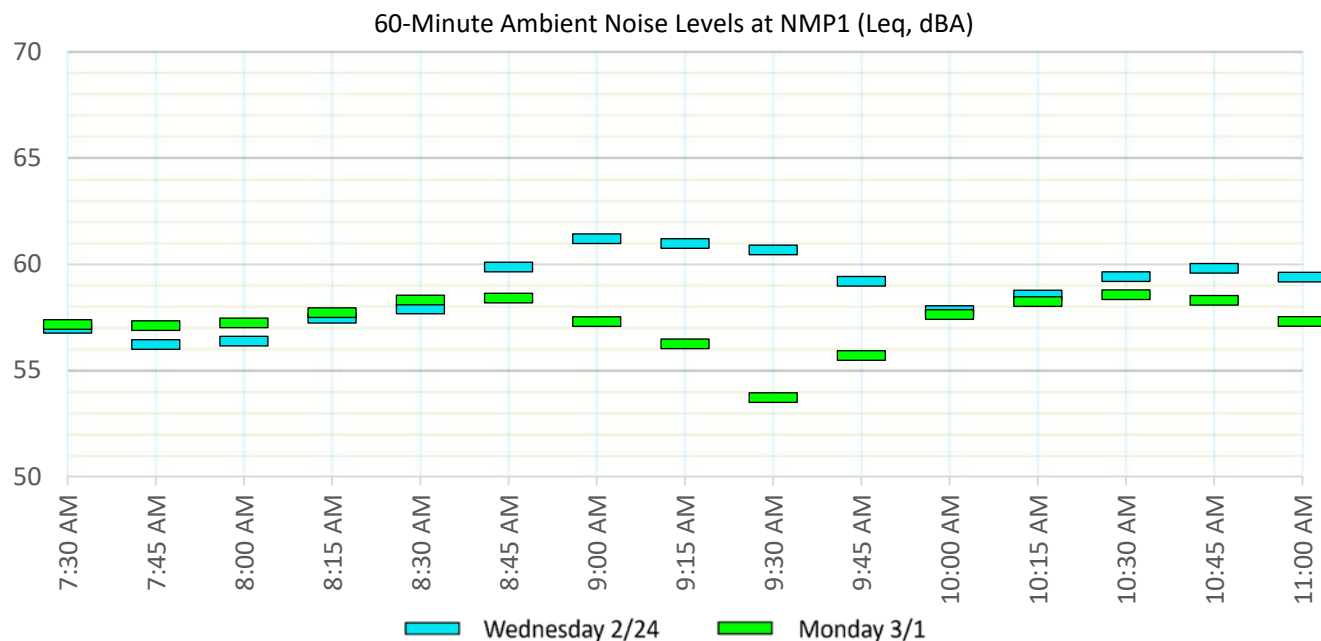


Figure 7 Measured Ambient Noise Levels at NMP1 on Wednesday 2/24 and Monday 3/1

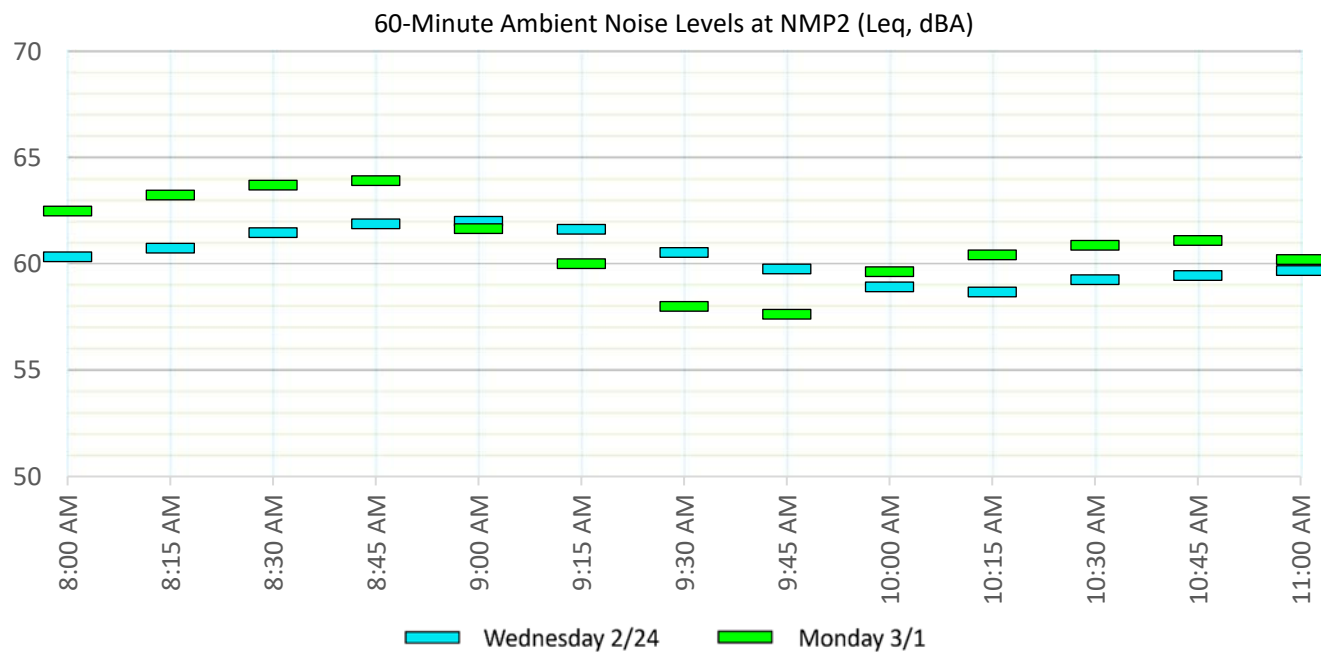


Figure 8 Measured Ambient Noise Levels at NMP2 on Wednesday 2/24 and Monday 3/1

As shown in both plots, ambient hourly noise levels at the noise monitoring positions ranged from 54 to 64 dBA. The dominant source of ambient noise during these monitored days included regular flyovers from commercial airliners approaching LAX and audible traffic on South Alameda Road.

Ideally, ambient noise levels would not have any contribution from the Atlas facility operations. As discussed above, Atlas operations were ongoing during the ambient data collection. While some intervals featuring major noise events caused by Atlas operations were removed, other intervals were incapable of removal due to coinciding contributions from non-Atlas noise events such as aircraft flyovers which are an important constituent of the ambient acoustic environment. Since not all Atlas events qualified for removal from the ambient data during these scenarios, the ambient levels reported herein are higher than what would have been collected under a non-contaminated ambient measurement. Thus, the elevated ambient levels reported herein inherently reduce the potential delta (i.e., increase over ambient) when compared with non-ambient noise level monitoring periods.

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## Atlas Facility Noise Levels Compared to Ambient

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On Monday, February 22, 2021, activities at the Atlas facility were notably audible and identifiable at both noise monitoring positions. Discussions with local staff on the JHS property indicated that noise generated during this date was representative of typical operational noise from the Atlas facility. Staff also noted that perceived noise levels on other days are “much louder”, suggesting that the noise levels generated by operation of the Atlas facility on February 22, 2021, were not atypical nor uncommon. Observed activities on the Atlas site included dumping of scrap metal from trucks, spreading and piling of scrap metal, pounding compaction of scrap metal, and general site operations including the transit of material handlers, mechanical noise (engines), and back-up alarm beeping.

Figures 9 and 10 compare the 1-hour Leq values from Monday (2/22) operations with the presumed ambient noise levels established on the subsequent Wednesday (2/24) and Monday (3/1) at monitoring locations NMP1 and NMP2, respectively. The values in these figures are provided in tabular format in Tables 1 and 2.

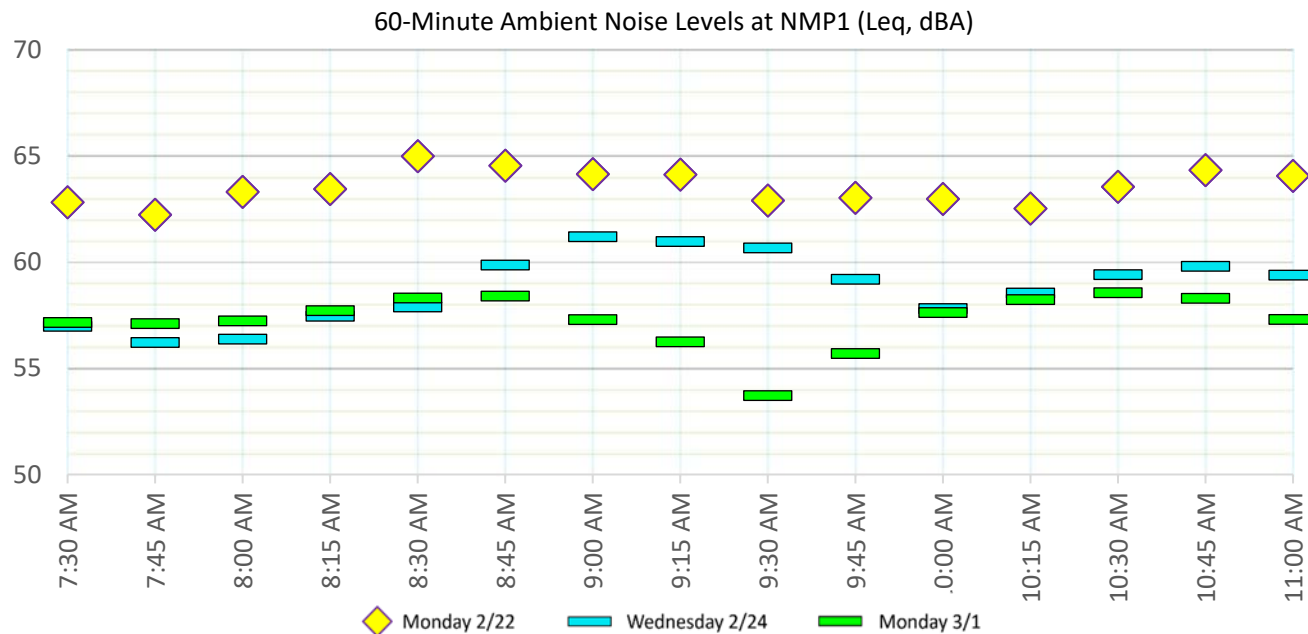


Figure 9 Comparison of Atlas Facility Typical Operations Noise Levels at NMP1 on Monday 2/22 and Ambient Noise Levels on Wednesday 2/24 and Monday 3/1

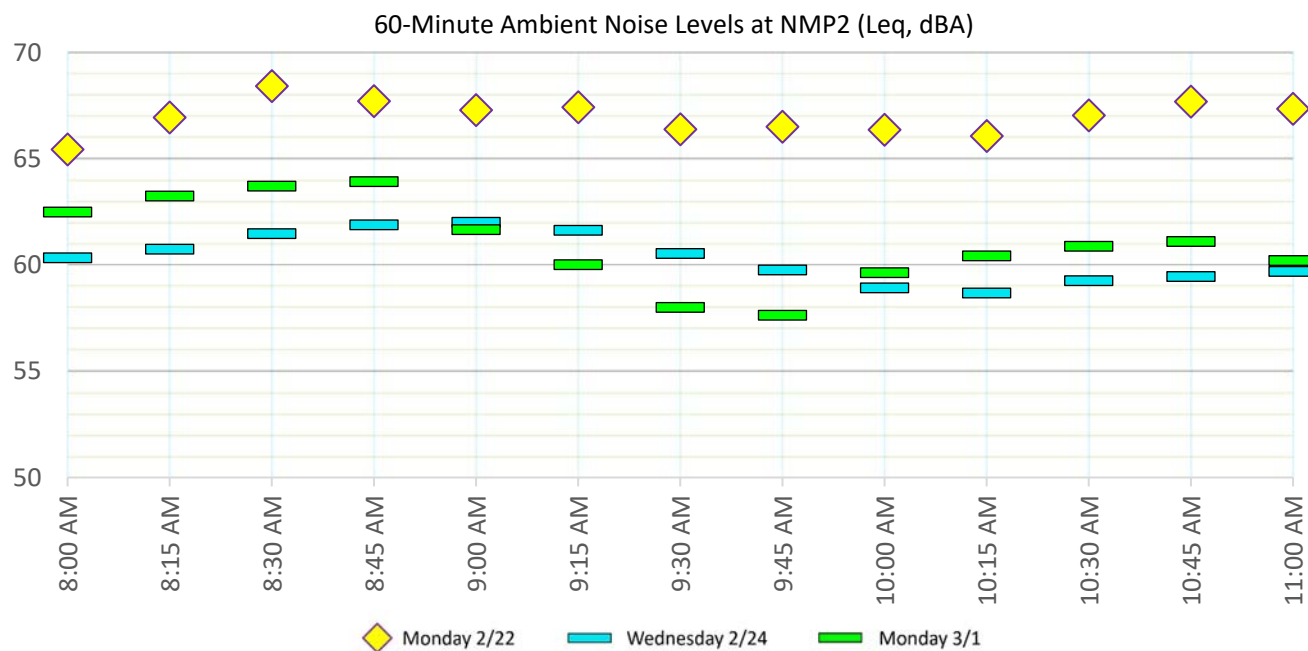


Figure 10 Comparison of Atlas Facility Typical Operations Noise Levels at NMP2 on Monday 2/22 and Ambient Noise Levels on Wednesday 2/24 and Monday 3/1

**Table 1. Comparison of Monday 2/22 Site Operations Noise Levels at NMP1 with Ambient**

Measured Sound Pressure Level (dBA, L <sub>eq</sub> (1hr))					
60-Minute Period Start Time	Monday (2/22, Typical Ops)	Wednesday (2/24, Ambient)	Increase over Ambient at NMP1	Monday (3/1, Ambient)	Increase over Ambient at NMP1
7:30	62.8	57.0	5.8	57.2	5.6
7:45	62.2	56.2	6.0	57.1	5.1
8:00	63.3	56.4	6.9	57.2	6.1
8:15	63.4	57.4	6.0	57.7	5.7
8:30	65.0	57.9	7.1	58.3	6.7
8:45	64.5	59.9	4.6	58.4	6.1
9:00	64.1	61.2	2.9	57.3	6.8
9:15	64.1	61.0	3.1	56.2	7.9
9:30	62.9	60.7	2.2	53.7	9.2
9:45	63.0	59.2	3.8	55.7	7.3
10:00	63.0	57.8	5.2	57.6	5.4
10:15	62.5	58.5	4.0	58.2	4.3
10:30	63.5	59.4	4.1	58.6	4.9
10:45	64.3	59.8	4.5	58.3	6.0
11:00	64.1	59.4	4.7	57.3	6.8

Note: Noise levels reported for the 11:00 a.m. hour are calculated using approximately 56 to 58 minutes of 1-minute interval data.

**Table 2. Comparison of Monday 2/22 Site Operations Noise Levels at NMP2 with Ambient**

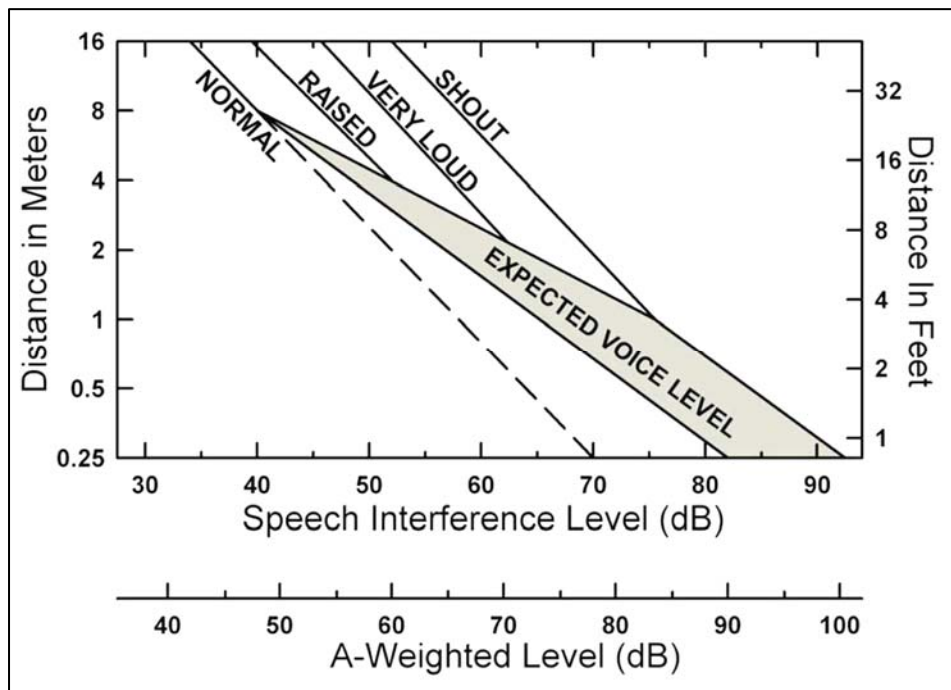
Measured Sound Pressure Level (dBA, L <sub>eq</sub> (1hr))					
60-Minute Period Start Time	Monday (2/22, Typical Ops)	Wednesday (2/24, Ambient)	Increase over Ambient at NMP2	Monday (3/1, Ambient)	Increase over Ambient at NMP2
8:00	65.4	60.3	5.1	62.5	2.9
8:15	66.9	60.7	6.2	63.2	3.7
8:30	68.4	61.5	6.9	63.7	4.7
8:45	67.7	61.9	5.8	63.9	3.8
9:00	67.3	62.0	5.3	61.7	5.6
9:15	67.4	61.6	5.8	60.0	7.4
9:30	66.4	60.5	5.9	58.0	8.4
9:45	66.5	59.8	6.7	57.6	8.9
10:00	66.4	58.9	7.5	59.6	6.8
10:15	66.1	58.7	7.4	60.4	5.7
10:30	67.0	59.3	7.7	60.9	6.1
10:45	67.7	59.5	8.2	61.1	6.6
11:00	67.4	59.7	7.7	60.2	7.2

Note: Noise levels reported for the 11:00 a.m. hour are calculated using approximately 56 to 59 minutes of 1-minute interval data.

As depicted in bold in Tables 1 and 2, noise levels collected on a day with typical operations of the Atlas facility exceed the City's 5 dBA increase-over-ambient noise level limit for the majority of operating hours during the studied morning period at two different noise monitoring positions.

## Maximum Noise Levels and Speech Disruption

High background noise levels can disrupt a person's ability to understand the output (i.e., words) of another person's speech, also referred to as speech intelligibility. Auditory masking of speech by background sources of noise reduces intelligibility depending on the level of vocal effort from the speaker and the distance from the speaker to the recipient. Figure 11 shows degrees of vocal effort required from a speaker at various distances from the recipient depending on background noise level.



Source: ANSI/ASA S12.65:2006.

**Figure 11. Distances at which Speech is Interfered with Amid Background Noise**

Momentary maximum noise levels generated by activities occurring within the Atlas property reached 83 dBA at NMP1 and 86 dBA on multiple occasions at NMP2. Using the bottom axis (A-Weighted Level [dB]) to plot these two values, Figure 11 suggests speech from an instructor at 8 feet away from students would be interfered with and unintelligible during noise-intensive Atlas operations, even if the instructor were shouting. This unintelligibility of speech worsens with increased distance between the instructor and students. The degradation of speech intelligibility in these areas of the campus, as well as the general presence of distinct loud noise events in an educational setting, are likely to result in adverse effects on student and instructor communication and ability to focus on tasks.

## Conclusion

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Under typical operating conditions, Tables 1 and 2 show that hourly noise generated by the Atlas facility greatly exceeds the ambient noise levels on JHS property by up to 9 dB. Any exceedance of the ambient noise level by greater than 5 dB is considered to be in direct conflict with the City Code noise level limits. Thus, the collected data indicate that typical operations of the Atlas facility are not compliant with the City Code.

Furthermore, maximum noise levels generated by Atlas facility operations in the vicinities of NMP1 and NMP2 are shown to preclude conversations and/or student instruction as a direct result of noise-intensive operations within the Atlas property. Such scenarios would likely have an adverse impact on the focus and comfort of both students and instructors using these general areas of the school campus.

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## References

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American National Standards Institute (ANSI) & Acoustical Society of America (ASA). 2006. American National Standard for Rating Noise with Respect to Speech Interference.

Los Angeles, City of. 2021. City of Los Angeles Municipal Code. Available at [https://codelibrary.amlegal.com/codes/los\\_angeles/latest/lamc/](https://codelibrary.amlegal.com/codes/los_angeles/latest/lamc/)

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# Attachment A

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## City of Los Angeles Municipal Code

# CHAPTER XI

## NOISE REGULATION

(Added by Ord. No. 144,331, Eff. 3/2/73.)

### Article

- 1 General Provisions
- 2 Special Noise Sources
- 3 Sanitary Operations
- 4 Vehicles
- 5 Amplified Sounds
- 6 General Noise

## ARTICLE 1

### GENERAL PROVISIONS

#### Section

- 111.00 Declaration of Policy.
- 111.01 Definitions.
- 111.02 Sound Level Measurement Procedure and Criteria.
- 111.03 Minimum Ambient Noise Level.
- 111.04 Violations: Additional Remedies, Injunctions.
- 111.05 Enforcement, Citations.

#### **SEC. 111.00. DECLARATION OF POLICY.**

It is hereby declared to be the policy of the City to prohibit unnecessary, excessive and annoying noises from all sources subject to its police power. At certain levels noises are detrimental to the health and welfare of the citizenry and in the public interests shall be systematically proscribed.

#### **SEC. 111.01. DEFINITIONS.**

Unless the context otherwise clearly indicates, the words and phrases used in this chapter are defined as follows:

- (a) **“Ambient Noise”** is the composite of noise from all sources near and far in a given environment, exclusive of occasional and transient intrusive noise sources and of the particular noise source or sources to be measured. Ambient noise shall be averaged over a period of at least 15 minutes at a location and



time of day comparable to that during which the measurement is taken of the particular noise source being measured. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(b) **“Commercial Purpose”** is the use, operation, or maintenance of any sound amplifying equipment for the purpose of advertising any business, goods, or services, or for the purpose of attracting the attention of the public to, advertising for, or soliciting patronage or customers to or for any performance, show, entertainment, exhibition, or event, or for the purpose of demonstrating such sound equipment. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(c) **“Decibel”** (dB) is a unit of level which denotes the ratio between two (2) quantities which are proportional to power; the number of decibels corresponding to the ratio of two (2) amounts of power is ten (10) times the logarithm to the base (10) of this ratio. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(d) **“Emergency Work”** is work made necessary to restore property to a safe condition following a public calamity or work required to protect persons or property from an imminent exposure to danger, or work by private or public utilities when restoring utility service. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(e) **“Impulsive Sound”** is sound of short duration, usually less than one second, with an abrupt onset and rapid decay. By way of example **“impulsive sound”** shall include, but shall not be limited to, explosions, musical base drum beats, or the discharge of firearms. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(f) **“Motor Vehicle”** includes, but shall not be limited to, automobiles, trucks, motorcycles, minibikes and go-carts. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(g) **“Noncommercial Purpose”** is the use, operation, or maintenance of any sound equipment for other than a “commercial purpose”. “Noncommercial purpose” shall mean and include, but shall not be limited to, philanthropic, political, patriotic, and charitable purposes. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(h) **“Octave Band Noise Analyzer”** is an instrument for measurement of sound levels in octave frequency bands which satisfies the pertinent requirements for Class II octave band analyzers of the American National Standard Specifications for Octave, Half-Octave, and Third-Octave Band Filters, S1.11-1966 or the most recent revision thereof. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(i) **“Person”** is a person, firm, association, co-partnership, joint venture, corporation, or any entity, private or public in nature. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(j) **“Sound Amplifying Equipment”** **(Amended by Ord. No. 156,363, Eff. 3/29/82.)** is any machine or device for the amplification of the human voice, music or any other sound, but shall not include:

1. Automobile radios, stereo players or television receivers when used and heard only by the occupants of the vehicle in which the same is installed.
2. Radio, stereo players, phonographs or television receivers used in any house or apartment within any residential zone or within 500 feet thereof.
3. Warning devices on emergency vehicles.
4. Horns or other warning devices authorized by law on any vehicle when used for traffic purposes.

(k) **“Sound Level”** (Noise level) in decibels (dB) is the sound measured with the “A” weighting and slow responses by a sound level meter; except for impulsive or rapidly varying sounds, the fast response

shall be used. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(l) **“Sound Level Meter”** is an instrument including a microphone, an amplifier, an output meter, and “A” frequency weighting network for the measurement of sound levels which satisfies the pertinent requirements for Type S2A meters in American Standard Specifications for sound level meters in S1.4-1971 or the most recent revision thereof. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(m) **“Sound Truck”** is any motor vehicle, or any other vehicle regardless of motive power, whether in motion or stationary, which carries, is equipped with, or which has mounted thereon, or attached thereto, any sound amplifying equipment. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(n) **Supplementary Definitions of Technical Terms.** Definitions of technical terms not defined herein shall be obtained from American Standard Acoustical Terminology S1-1-1971 or the most recent revision thereof. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

## **SEC. 111.02. SOUND LEVEL MEASUREMENT PROCEDURE AND CRITERIA.**

**(Title amended by Ord. No. 156,363, Eff. 3/29/82.)**

(a) **(Amended by Ord. No. 156,363, Eff. 3/29/82.)** Any sound level measurement made pursuant to the provisions of this chapter shall be measured with a sound level meter using the “A” weighting and response as indicated in Section 111.01(k) of this article.

Except when impractical, the microphone shall be located four to five feet above the ground and ten feet or more from the nearest reflective surface. However, in those cases where another elevation is deemed appropriated, the latter shall be utilized.

Interior sound level measurements shall be made at a point at least four feet from the wall, ceiling, or floor nearest the noise source.

Calibration of the sound level meter, utilizing an acoustic calibrator shall be performed immediately prior to recording any sound level data. The ambient noise level and the level of a particular noise being measured shall be the numerical average of noise measurements taken at a given location during a given time period.

(b) **(Amended by Ord. No. 156,363, Eff. 3/29/82.)** Where the sound alleged to be offending is of a type or character set forth below, the following values shall be added to the sound level measurement of the offending noise:

1. Except for noise emanating from any electrical transformer or gas metering and pressure control equipment existing and installed prior to the effective date of the ordinance enacting this chapter, any steady tone with audible fundamental frequency or overtones have 200 Hz.....+5

2. Repeated impulsive noise.....+5

3. Noise occurring more than 5 but less than 15 minutes in any period of 60 consecutive minutes between the hours of 7:00 a.m. and 10:00 p.m. of any day.....-5

4. Noise occurring five minutes or less in any period of 60 consecutive minutes, between the hours of 7:00 a.m. and 10:00 p.m. of any day.....-5 **(Amended by Ord. No. 161,574, Eff. 9/8/86.)**

(c) For those cases where an objectionable noise is clearly audible, but where the level of ambient noise does not permit direct quantitative sound level “A” measurements of the objectionable noise, sound measurements may be performed utilizing an octave band sound analyzer to determine sound level “A” limits as indicated in the

Table I below. This table is used to convert the sound pressure level meter readings in dB for each band to SPL in dB(A) for each band.

**TABLE I  
OCTAVE BAND NOISE VALUES CORRESPONDING TO SOUND LEVEL “A” VALUES**

Sound Level	Octave Band Sound Pressure Level, dB re .0002 dyne/cm <sup>2</sup> Octave Band Center Frequency in Hz								
	31.5	63	125	250	500	1000	2000	4000	8000
“A”	31.5	63	125	250	500	1000	2000	4000	8000
35	58	50	42	35	32	29	26	23	20
40	61	54	46	40	37	34	31	28	25
45	64	58	51	45	42	39	36	33	30
50	67	61	55	50	47	44	41	38	35
55	70	64	60	55	52	49	46	43	40
60	73	68	64	60	57	54	51	48	45
65	76	72	68	65	62	59	56	53	50
70	79	76	73	70	67	64	61	58	55
75	84	81	78	75	72	69	66	63	60

(d) For those cases where a sound level measurement has been made pursuant to the provisions of this chapter and two or more provisions of this chapter apply, the provision establishing the lower or lowest noise level, respectively, shall be used. **(Added by Ord. No. 156,363, Eff. 3/29/82.)**

**SEC. 111.03. MINIMUM AMBIENT NOISE LEVEL.**

**(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

Where the ambient noise level is less than the presumed ambient noise level designated in this section, the presumed ambient noise level in this section shall be deemed to be the minimum ambient noise level for purposes of this chapter.

**TABLE II  
SOUND LEVEL “A” DECIBELS**

(In this chart, daytime levels are to be used from 7:00 a.m. to 10:00 p.m. and nighttime levels from 10:00 p.m. to 7:00 a.m.)

ZONE	PRESUMED AMBIENT NOISE LEVEL (dB(A))	
	DAY	NIGHT
A1, A2, RA, RE, RS, RD, RW1, RW2, R1, R2, R3, R4, and R5	50	40
P, PB, CR, C1, C1.5, C2, C4, C5, and CM	60	55
M1, MR1, and MR2	60	55
M2 and M3	65	65

At the boundary line between two zones, the presumed ambient noise level of the quieter zone shall be used.

#### **SEC. 111.04. VIOLATIONS: ADDITIONAL REMEDIES, INJUNCTIONS.**

As an additional remedy, the operation or maintenance of any device, instrument, vehicle, or machinery in violation of any provision of this chapter, which operation or maintenance causes discomfort or annoyance to reasonable persons or which endangers the comfort, repose, health, or peace of residents in the area, shall be deemed and is declared to be a public nuisance and may be subject to abatement summarily by a restraining order or injunction issued by a court order of competent jurisdiction. **(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

#### **SEC. 111.05. ENFORCEMENT, CITATIONS.**

**(Added by Ord. No. 156,363, Eff. 3/29/82.)**

(a) The Department of Building and Safety shall have the power and duty to enforce the following noise control provisions of this Code: Section 12.14 A.6.(h), Section 12.19 A.4.(b)(1), Section 112.02 and Section 112.04(c). **(Amended by Ord. No. 172,086, Eff. 7/30/98.)**

(b) The Police Department shall have the power and duty to enforce the following noise control provisions of this Code: Section 41.32, Section 41.40, Section 41.42, Section 41.44, Section 41.57, Section 63.51(m), Section 112.01, Section 112.04, Section 112.05, Section 112.06, Section 113.01, Section 114.01 through Section 114.05, inclusive, Section 115.02 through Section 115.03, inclusive, and Section 116.01. **(Amended by Ord. No. 185,601, Eff. 7/18/18.)**

(c) Any Building Mechanical Inspector assigned to noise enforcement inspection shall have the power, authority and immunity of a public officer and employee, as set forth in the Penal Code of the State of California, Section 836.5, to make arrests without a warrant whenever such employee has reasonable cause to believe that the person to be arrested has committed a misdemeanor in his presence which is a violation of any provision set forth in Section 111.05(a) of this chapter. The provisions of said Penal Code section regarding issuance of a written promise to appear shall be applicable to arrests authorized herein.

## **ARTICLE 2**

### **SPECIAL NOISE SOURCES**

#### Section

- 112.01 Radios, Television Sets, and Similar Devices.
- 112.02 Air Conditioning, Refrigeration, Heating, Pumping, Filtering Equipment.
- 112.03 Construction Noise.
- 112.04 Powered Equipment Intended for Repetitive Use in Residential Areas and Other Machinery, Equipment, and Devices.
- 112.05 Maximum Noise Level of Powered Equipment or Powered Hand Tools.
- 112.06 Places of Public Entertainment.

### **SEC. 112.01. RADIOS, TELEVISION SETS, AND SIMILAR DEVICES.**

**(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(a) It shall be unlawful for any person within any zone of the City to use or operate any radio, musical instrument, phonograph, television receiver, or other machine or device for the producing, reproducing or amplification of the human voice, music, or any other sound, in such a manner, as to disturb the peace, quiet, and comfort of neighbor occupants or any reasonable person residing or working in the area.

(b) Any noise level caused by such use or operation which is audible to the human ear at a distance in excess of 150 feet from the property line of the noise source, within any residential zone of the City or within 500 feet thereof, shall be a violation of the provisions of this section.

(c) Any noise level caused by such use or operation which exceeds the ambient noise level on the premises of any other occupied property, or if a condominium, apartment house, duplex, or attached business, within any adjoining unit, by more than five (5) decibels shall be a violation of the provisions of this section.

### **SEC. 112.02. AIR CONDITIONING, REFRIGERATION, HEATING, PUMPING, FILTERING EQUIPMENT.**

**(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(a) It shall be unlawful for any person, within any zone of the city to operate any air conditioning, refrigeration or heating equipment for any residence or other structure or to operate any pumping, filtering or heating equipment for any pool or reservoir in such manner as to create any noise which would cause the noise level on the premises of any other occupied property or if a condominium, apartment house, duplex, or attached business, within any adjoining unit, to exceed the ambient noise level by more than five (5) decibels

(b) This section shall not be applicable to emergency work as defined in Section 111.01(c) of this chapter, or to periodic maintenance or testing of such equipment reasonably necessary to maintain such equipment in good working order.

### **SEC. 112.03. CONSTRUCTION NOISE.**

Noise due to construction or repair work shall be regulated as provided by Section 41.40 of this Code.  
**(Amended by Ord. No. 161,574, Eff. 9/8/86.)**

### **SEC. 112.04. POWERED EQUIPMENT INTENDED FOR REPETITIVE USE IN RESIDENTIAL AREAS AND OTHER MACHINERY, EQUIPMENT, AND DEVICES.**

**(Title and Section Amended by Ord. No. 161,574, Eff 9/8/86.)**

(a) Between the hours of 10:00 p.m. and. 7:00 a.m. of the following day, no person shall operate any lawn mower, backpack blower, lawn edger, riding tractor, or any other machinery, equipment, or other mechanical or electrical device, or any hand tool which creates a loud, raucous or impulsive sound, within any residential zone or within 500 feet of a residence.

(b) Except as to the equipment and operations specifically mentioned and related elsewhere in this Chapter or for emergency work as that term is defined in Section 111.01(d), and except as to aircraft, tow tractors, aircraft auxiliary power units, trains and motor vehicles in their respective operations governed by State or federal regulations, no person shall operate or cause to be operated any machinery, equipment, tools, or other mechanical or electrical device, or engage in any other activity in such manner as to create any noise which would cause the noise level on the premises of any other occupied property, or, if a condominium, apartment

house, duplex, or attached business, within any adjoining unit, to exceed the ambient noise level by more than five (5) decibels.

(c) Notwithstanding the provisions of Subsection (a) above, no gas powered blower shall be used within 500 feet of a residence at anytime. Both the user of such a blower as well as the individual who contracted for the services of the user, if any, shall be subject to the requirements of and penalty provisions for this ordinance. Violation of the provisions of this subsection shall be punishable as an infraction in an amount not to exceed One Hundred Dollars (\$100.00), notwithstanding the graduated fines set forth in LAMC § 11.00(m). **(Amended by Ord. No. 171,890, Eff. 2/13/98.)**

#### **SEC. 112.05. MAXIMUM NOISE LEVEL OF POWERED EQUIPMENT OR POWERED HAND TOOLS.**

**(Amended by Ord. No. 161,574, Eff. 9/8/86.)**

Between the hours of 7:00 a.m. and 10:00 p.m., in any residential zone of the City or within 500 feet thereof, no person shall operate or cause to be operated any powered equipment or powered hand tool that produces a maximum noise level exceeding the following noise limits at a distance of 50 feet therefrom:

(a) 75dB(A) for construction, industrial, and agricultural machinery including crawler-tractors, dozers, rotary drills and augers, loaders, power shovels, cranes, derricks, motor graders, paving machines, off-highway trucks, ditchers, trenchers, compactors, scrapers, wagons, pavement breakers, compressors and pneumatic or other powered equipment;

(b) 75dB(A) for powered equipment of 20 HP or less intended for infrequent use in residential areas, including chain saws, log chippers and powered hand tools;

(c) 65dB(A) for powered equipment intended for repetitive use in residential areas, including lawn mowers, backpack blowers, small lawn and garden tools and riding tractors;

The noise limits for particular equipment listed above in (a), (b) and (c) shall be deemed to be superseded and replaced by noise limits for such equipment from and after their establishment by final regulations adopted by the Federal Environmental Protection Agency and published in the Federal Register.

Said noise limitations shall not apply where compliance therewith is technically infeasible. The burden of proving that compliance is technically infeasible shall be upon the person or persons charged with a violation of this section. Technical infeasibility shall mean that said noise limitations cannot be complied with despite the use of mufflers, shields, sound barriers and/or other noise reduction device or techniques during the operation of the equipment.

#### **SEC. 112.06. PLACES OF PUBLIC ENTERTAINMENT.**

It shall be unlawful for any person to operate, play, or to permit the operation or playing of any radio, television receiver, phonograph, musical instrument, sound amplifying equipment, or similar device which produces, reproduces, or amplifies sound in any place of public entertainment at a sound level greater than 95dB(A) at any point that is normally occupied by a customer, unless a conspicuous and legible sign is located outside such place, near each public entrance, stating:

“WARNING: SOUND LEVELS WITHIN MAY CAUSE HEARING IMPAIRMENT.”

(Added by Ord. No. 156,363, Eff. 3/29/82.)

## **ARTICLE 3**

### **SANITARY OPERATION**

Section

113.01 Rubbish and Garbage Collection and Disposal.

**SEC. 113.01. RUBBISH AND GARBAGE COLLECTION AND DISPOSAL.**  
**(Amended by Ord. No. 161,574, Eff. 9/8/86.)**

It shall be unlawful for any person engaged in the business of collecting or disposing of rubbish or garbage to operate any refuse disposal truck, parking lot sweeper, or vacuum truck, or to collect, load, pick up, transfer, unload, dump, discard, sweep, vacuum, or dispose of any rubbish or garbage, as such terms are defined in Section 66.00 of this Code, within 200 feet of any residential building between the hours of 9:00 p.m. and 6:00 a.m. of the following day, unless a permit therefore has been duly obtained beforehand from the Board of Police Commissioners.

The standards which shall be considered in determining whether a permit shall be granted are the following:

- (a) Whether the work to be done is in the public interest, or
- (b) Whether the applicant would suffer hardship, injustice or delay if the permit were not granted, or
- (c) Whether fuel conservation would result if the permit were issued.

No permit shall be required to perform emergency work as defined in Sec. 111.01(c) of this chapter.

## **ARTICLE 4**

### **VEHICLES**

Section

114.01 Vehicle Repairs.

114.02 Motor Driven Vehicles.

114.03 Vehicles – Loading and Unloading.

114.04 Audible Signaling Devices.

114.05 Audible Advertising Devices – Commercial Food Vendors.

114.06 Vehicle Theft Alarm Systems.

114.07 Audible Status Indicator

**SEC. 114.01. VEHICLE REPAIRS.**

**(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

It shall be unlawful for any person, within any residential property located within any residential zone of the City or within 500 feet thereof, to repair, rebuild, reconstruct or dismantle any motor vehicle between the hours of 8:00 p.m. of one day and 8:00 a.m. of the next day in such manner:

- (a) That a reasonable person residing in the area is caused discomfort or annoyance;
- (d) That such activity is audible to the human ear at a distance in excess of 150 feet from the property line of the noise source;
- (c) As to create any noise which would cause the noise level on the premises of any occupied residential property, or if a condominium, apartment house or duplex, within any adjoining unit, to exceed the ambient noise level by more than five (5) decibels.

**SEC. 114.02. MOTOR DRIVEN VEHICLES.**

**(Amended by Ord. No. 156,363, Eff. 3/29/82.)**

(a) It shall be unlawful for any person to unreasonably operate any motor driven vehicle upon any property within the City or to unreasonably accelerate the engine of any vehicle, or unreasonably sound, blow or operate the horn or other warning device of such vehicle in such manner:

1. As to disturb the peace, quiet and comfort of any neighborhood or of any reasonable person residing in such area
2. That such activity is audible to the human ear at a distance in excess of 150 feet from the property line of the noise source;
3. As to create any noise which would cause the noise level on the premises of any occupied residential property, or if a condominium, apartment house or duplex, within any adjoining unit, to exceed the ambient noise level by more than five (5) decibels.

(b) This section shall not be applicable to any vehicle which is operated upon any public highway, street or right-of-way or to the operation of any off-highway vehicle to the extent it is regulated in the Vehicle Code.

**SEC. 114.03. VEHICLES – LOADING AND UNLOADING.**

**(Amended by Ord. No. 166,514, Eff. 1/24/91.)**

(a) It shall be unlawful for any person, between the hours of 10:00 p.m. and 7:00 a.m. of the following day, to load or unload any vehicle, or operate any dollies, carts, forklifts, or other wheeled equipment, which causes any impulsive sound, raucous or unnecessary noise within 200 feet of any residential building.

(b) Irrespective of the provisions of Subsection (a), loading or unloading of vehicles of the type of activity referred to in Subsection (a) may occur between the hours of 6:00 a.m. to 11:00 p.m. of the same day pursuant to a permit issued by the Department of Transportation in accordance with a business program as defined by said department. This permit program would be limited to the area bounded by Western Avenue, Santa Monica Freeway, Central Avenue, and the San Diego Freeway, within the limits of the City of Los Angeles. Such permits will not be issued to high-noise businesses such as trash pickup.

**SEC. 114.04. AUDIBLE SIGNALING DEVICES.**



**(Added by Ord. No. 161,574, Eff. 9/8/86.)**

It shall be unlawful for any person, within any residential zone of the City or within 500 feet thereof, to sound, blow, or operate any audible signaling device, including sequential airhorns or electronically operated vehicular loud speaker music devices, which can be heard for a distance greater than 200 feet for any purpose. Violation of this section shall constitute an infraction. This section does not address horn or warning devices regulated in Article 1 of Chapter 5 of Division 12 of the Vehicle Code of the State of California, commencing at Section 27000. **(Last sentence amended by Ord. No. 165.191, Eff. 10/23/89.)**

#### **SEC. 114.05. AUDIBLE ADVERTISING DEVICES – COMMERCIAL FOOD VENDORS.**

**(Added by Ord. No. 164,532, Eff. 4/20/89.)**

Notwithstanding the provisions of Section 114.04, it shall be unlawful for any person, to sound, blow or operate any music, chimes or bells, or any similar sound device, amplified or otherwise, within 200 feet of any residential building between the hours of 9:00 p.m. and 7:00 a.m. the next day while operating a catering truck, as that term is defined in Section 80.73 of the Municipal Code.

#### **SEC. 114.06. VEHICLE THEFT ALARM SYSTEMS.**

**(Former Sec. 114.05, Renumbered by Ord. No. 164,532, Eff. 4/20/89.)**

It shall be unlawful for any person to install, operate or use any vehicle theft alarm system that emits or causes the emission of an audible sound, which is not, or does not become, automatically and completely silenced within five minutes. The time period shall be calculated based upon the emission of the first audible sound and shall end five minutes thereafter notwithstanding any variation or stoppage in the emissions of audible sound. Violation of this section shall constitute an infraction.

#### **SEC. 114.07. AUDIBLE STATUS INDICATOR.**

**(Added by Ord. No. 169,785, Eff. 6/9/94.)**

It shall be unlawful for any person to install, operate, use or maintain any vehicle theft alarm system which utilizes an audible status indicator emitting or causing the emission of an audible sound for a duration of more than one minute. The time period shall be calculated from the point in time of the emission of the first audible sound used in calculation and shall end one minute thereafter, notwithstanding any variation or temporary stoppage in the emission of audible sound.

As used in this section, an audible status indicator is a component of a vehicle theft alarm system which emits sound audible outside the vehicle for the purpose of warning that a vehicle theft alarm system is installed and armed or operational. The term “**audible status indicator**” shall include any device which emits a chirp, voice message or other sound when an approaching person is within a certain distance of the vehicle in which the device is installed.

In the event enforcement of a violation occurs under this section, no enforcement shall be taken under Section 80.75.1 of the Municipal Code for the same violation.

Violation of any provision of this section shall constitute an infraction.

## ARTICLE 5

### AMPLIFIED SOUND

#### Section

115.01 Purpose.

115.02 Prohibition and Regulations.

115.03 Amplified Sound on Unenclosed Tour Buses.

#### **SEC. 115.01. PURPOSE.**

The Council enacts this legislation for the sole purpose of securing and promoting the public health, comfort, safety, and welfare of its citizenry. While recognizing that certain uses of sound amplifying equipment are protected by the constitutional rights of freedom of speech and assembly, the Council nevertheless feels obligated to reasonably regulate the use of sound amplifying equipment in order to protect the correlative constitutional rights of the citizens of this community to privacy and freedom from public nuisance of loud and unnecessary noise.

#### **SEC. 115.02. PROHIBITION AND REGULATIONS.**

It shall be unlawful for any person, other than personnel of law enforcement or governmental agencies, or permittees duly authorized to use the same pursuant to Sec. 103.111 of this Code, to install, use, or operate within the City a loudspeaker or sound amplifying equipment in a fixed or movable position or mounted upon any sound truck for the purposes of giving instructions, directions, talks, addresses, lectures, or transmitting music to any persons or assemblages of persons in or upon any public street, alley, sidewalk, park or place, or other public property except when installed, used or operated in compliance with the following provisions:

(a) In all residential zones and within 500 feet thereof, no sound amplifying equipment shall be installed, operated or used for commercial purposes at any time.

(b) The operation or use of sound amplifying equipment for noncommercial purposes in all residential zones and within 500 feet thereof, except when used for regularly scheduled operative functions by any school or for the usual and customary purposes of any church, is prohibited between the hours of 4:30 p.m. and 9:00 a.m. of the following day.

(c) In all other zones, except such portions thereof as may be included within 500 feet of any residential zone, the operation or use of sound amplifying equipment for commercial purposes is prohibited between the hours of 9:00 p.m. and 8:00 a.m. of the following day.

(d) In all other zones, except such portions thereof as may be included within 500 feet of any residential zone, the operation or use of sound amplifying equipment for noncommercial purposes is prohibited between the hours of 10:00 p.m. and 7:00 a.m. of the following day.

(e) The only sounds permitted shall be either music, human speech, or both.

(f) Sound emanating from sound amplifying equipment shall be limited in volume, tone and intensity as follows:

1. The sound shall not be audible at a distance in excess of 200 feet from the sound equipment.

2. In no event shall the sound be loud and raucous or unreasonably jarring, disturbing, annoying or a nuisance to reasonable persons of normal sensitiveness within the area of audibility.

(g) Except as provided in (b) above, no sound amplifying equipment shall be operated upon any property adjacent to and within 200 feet of any hospital grounds or any school or church building while in use.

(h) **(Amended by Ord. No. 145,691, Eff. 5/2/74.)** The operation or use of any sound amplifying equipment installed, mounted, attached or carried in or by any sound truck is further prohibited:

1. Within the Central Traffic district at any time;
2. Upon Hollywood Boulevard between Vermont Avenue and La Brea at any time;
3. Upon Wilshire Boulevard at any time;
4. Upon Sunset Boulevard at any time;
5. Upon Vine Street at any time;
6. Upon any street between the hours of 4:30 p.m. and 9:00 a.m. of the following day;
7. Upon any street on any Sunday.

### **SEC. 115.03. AMPLIFIED SOUND ON UNENCLOSED TOUR BUSES.**

**(Added by Ord. No. 185,601, Eff. 7/18/18.)**

(a) **Definitions.** As used in this section:

1. **"Operator"** means any person or corporation who conducts a business or enterprise that operates one or more Unenclosed Tour Buses.

2. **"Sound Amplifying Equipment"** shall have the same meaning as in Subsection (j) of Section 111.01 of this chapter, and shall include loud speakers and public address systems.

3. **"Tour Bus"** means a privately-owned bus or passenger vehicle for hire, which is operated by or for a charter-party carrier of passengers or a passenger stage corporation, as set forth in California Vehicle Code Section 612, subsection (a), and as defined in California Public Utilities Code Sections 226 and 5360. A Tour Bus includes any vehicle that is used primarily for the conveyance of passengers over the public streets, for the purpose of visiting or viewing places of interest.

4. **"Unenclosed Tour Bus"** means a Tour Bus that has had its roof substantially structurally modified or removed, as set forth in California Vehicle Code Section 612, Subsection (b), such that it can be and is operated without a solid roof covering all seating areas of the vehicle. An Unenclosed Tour Bus shall also include any Tour Bus that has had its side panels substantially structurally modified and/or removed, such that it can be and is operated without side panels fully enclosing the sides of the vehicle, when doors and windows are closed.

(b) **Use of Sound Amplifying Equipment Prohibited.** It shall be unlawful for any Operator or any person employed by an Operator to cause, allow, or permit the use of Sound Amplifying Equipment on any Unenclosed

Tour Bus while the vehicle is operating within the City of Los Angeles.

(c) **Violation and Punishment.** A violation of this Section shall constitute an infraction pursuant to California Vehicle Code Sections 40000.1 and 42001, and shall be punished pursuant to the fine structure set forth in California Vehicle Code Section 42001.

(d) **Severability.** If any subsection, subdivision, sentence, clause, phrase, or portion of this section, or the application thereof to any person, is for any reason held to be invalid or constitutional by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this section or its application to other persons. The City Council hereby declares that it would have adopted this section and each subsection, subdivision, sentence, clause, phrase or portion thereof, irrespective of the fact that any one or more subsections, subdivisions, sentences, clauses, phrases, or portions, or the application thereof to any person, be declared invalid or unconstitutional.

## ARTICLE 6

### GENERAL NOISE

Section

116.01 Loud, Unnecessary and Unusual Noise.

#### SEC. 116.01. LOUD, UNNECESSARY AND UNUSUAL NOISE.

Notwithstanding any other provisions of this chapter and in addition thereto, it shall be unlawful for any person to willfully make or continue, or cause to be made or continued, any loud, unnecessary, and unusual noise which disturbs the peace or quiet of any neighborhood or which causes discomfort or annoyance to any reasonable person of normal sensitiveness residing in the area. The standard which may be considered in determining whether a violation of the provisions of this section exists may include, but not be limited to, the following:

- (a) The level of noise;
- (b) Whether the nature of the noise is usual or unusual;
- (c) Whether the origin of the noise is natural or unnatural;
- (d) The level and intensity of the background noise, if any;
- (e) The proximity of the noise to residential sleeping facilities;
- (f) The nature and zoning of the area within which the noise emanates;
- (g) The density of the inhabitation of the area within which the noise emanates;
- (h) The time of the day and night the noise occurs;
- (i) The duration of the noise;

- (j) Whether the noise is recurrent, intermittent, or constant; and
- (k) Whether the noise is produced by a commercial or noncommercial activity.

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# Attachment B

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## Field Data Sheets

**MONITORING**

**AECOM Acoustics and Noise Control Practice  
FIELD NOISE MEASUREMENT DATA FORM**

Project Name: LAUSD Jordan HS Project #: \_\_\_\_\_ Date: 2/22/21 Page \_\_\_\_\_ of \_\_\_\_\_  
 Measurement Location: M1-Softball Field Analyst: Schad

<b>Sound Level Meter</b> Model #: <u>LxT1</u> Serial #: <u>629</u> Weighting: <u>A / C / Flat</u> Response: <u>Slow / Fast / Impl</u> Windscreens: <u>Yes / No (explain)</u>		<b>Field Calibration</b> Model #: <u>1AL200</u> Serial #: <u>16301</u> Calibration Level (dB): <u>94/114</u> Pre-Test: <u>-0.07</u> dBA Post-Test: <u>+0.076</u> dBA		<b>Meteorological Data</b> Model #: <u>K3500</u> Time Obs/Meas: <u>07:25</u> Serial #: <u>2058303</u> Precipitation: Yes (explain) / No <u>No</u> Wind: Steady / Gusty / Calm <u>Calm</u> Avg Wind Speed/Direction: <u>1.3 W</u> m/s <u>1</u> MPH Temp (°F): <u>50.5</u> RH (%): <u>41.9</u> Bar Psr (Hg): <u>30.08</u> Cloud Cover (%): <u>0</u>	
Topo: <u>Flat / Hilly</u> Terrain: <u>Hard / Soft / Mixed / Agg / Snow</u>		GPS Coordinates (at SLM location)			

Loc. ID	Start Time (hh:mm)	Stop Time (hh:mm)	Notes/Events
	07:26	08:30	Start at M1 on 3rd base line, mid left field
	07:44		Wake up Bugle?
	:48		Low private jet
	08:56		Begin attended monitoring. Low bangs on site ~ 8:50
	:58		Low lift + drop at NW corner
	9:04		Low lift at NW corner
	:09		Claw at SW corner low banging
	:10		SW Claw thumping scap down
	:12		Plane Flyover white livery
	:14		Thumping causing noticeable vibrations
	:18		Truck unload at NW corner, screeching Thumping at SW
	:24		Frontier Flyover
	:25		Thumping
	:33		AA Flyover
	:38		Clean ambient?
	:39		AA Flyover + Back up alarm
	:42		AA Flyover
	:47		Back up alarm
	10:09		Low Bang from drop then AA flyover
	10:10		Ambient then flyover British Air?
	:15		Low drop
	:19	10:23	United Flyover - Truck unloading
	:23		Jetblue Flyover?
	:24		Low dump/unload followed by Jetblue
	:26		Spirit Flyover
	:28		Private Jet
	:31	10:32	Quiet
	:37		Private Jet
	:38		Quiet? Quiet - AA Flyover
	:46		Back up alarm - Flyover red tail?
	:51		United FO
	:52		Jetblue + Backup alarm

Additional Notes/Comments: \_\_\_\_\_ Photos Taken? Yes / No

Noise Sources (circle all that apply): distant aircraft • roadway traffic • rail • landscaping • rustling leaves  
 children playing • dogs barking • birdcall • insects • mechanical

Additional Notes on Reverse or Indicated Separate Sheet(s)





**MONITORING**

**AECOM Acoustics and Noise Control Practice  
FIELD NOISE MEASUREMENT DATA FORM**

Project Name: Jordan HS LAUSD Project #: \_\_\_\_\_ Date: 2/22/21 Page \_\_\_\_\_ of \_\_\_\_\_  
 Measurement Location: M2 Analyst: Schad

<b>Sound Level Meter</b> Model #: <u>LE11</u> Serial #: <u>6202</u> Weighting: <u>A/C/Flat</u> Response: <u>Slow / Fast / Impl</u> Windscreen: <u>Yes / No (explain)</u>		<b>Field Calibration</b> Model #: <u>CA200</u> Serial #: <u>16301</u> Calibration Level (dB): <u>94/114</u> Pre-Test <u>114.03</u> dBA Post-Test <u>-0.03</u> dBA		<b>Meteorological Data</b> Model #: <u>13500</u> Time Obs/Meas: <u>7:25</u> Serial #: <u>2058303</u> Precipitation: Yes (explain) / <u>No</u> Wind: <u>Steady / Gusty / Calm</u> Avg Wind Speed/Direction: <u>1.3 W</u> m/s / <u>MPH</u> Temp (°F): <u>50.5</u> RH (%): <u>49.9</u> Bar Psr (Hg): <u>30.08</u> Cloud Cover (%): <u>0</u>	
Topo: <u>Flat / Hilly</u> Terrain: <u>Hard / Soft / Mixed / Agg / Snow</u>		<b>GPS Coordinates (at SLM location)</b>			

Loc. ID	Start Time (hh:mm)	Stop Time (hh:mm)	Notes/Events
	07:50		Start at M2
		11:57	Pause for lunch
	12:50		Start after lunch + attended monitoring
	:57		SW corner thumping
	1:00		Thumping, UA Flyover
	06		Mass A:0 Flyover
	08		Back up alarm AA flyover
	11		Private Jet
	13		Spirit FO
	18		Back up alarm
	20		Private Jet
	29		AA Flyover
	30		Thumping
	31		Delta
	32		UA Flyover
	34		Helicopter
			ANA Flyover
	42	45	Really Quiet
	52		thumping
	58	2:00	Real Quiet
	59		Spirit FO
	<del>2:00</del>		
	2:02		Thumping
	2:05		AA Flyover
	:07		AA Flyover
	2:13		Totblue + Thumping
	2:16		Alaska Flyover
	2:17		Truck unload at E side?
	:26		Southwest Flyover
			Very Quiet?
	:29		Train?
	30		Alaska

Additional Notes/Comments: \_\_\_\_\_ Photos Taken? Yes / No

Noise Sources (circle all that apply): distant aircraft • roadway traffic • rail • landscaping • rustling leaves  
 children playing • dogs barking • birdcall • insects • mechanical

Additional Notes on Reverse or Indicated Separate Sheet(s)



MONITORING

AECOM Acoustics and Noise Control Practice  
**FIELD NOISE MEASUREMENT DATA FORM**

Project Name: Jordan HS LAUSD Project #: \_\_\_\_\_ Date: wed 2/24/21 Page \_\_\_\_\_ of \_\_\_\_\_  
 Measurement Location: M1 Analyst: Schae

<b>Sound Level Meter</b> Model #: <u>LxT1</u> Serial #: <u>6201</u> Weighting: <u>A / C / Flat</u> Response: <u>Slow / Fast / Impl</u> Windscreen: <u>Yes / No (explain)</u> Topo: <u>Flat / Hilly</u> Terrain: <u>Hard / Soft / Mixed / Agg / Snow</u>		<b>Field Calibration</b> Model #: <u>CAL200</u> Serial #: <u>2794</u> Calibration Level (dB): <u>94.114</u> Pre-Test: <u>+0.09</u> dBA Post-Test: <u>-0.08</u> dBA GPS Coordinates (at SLM location)		<b>Meteorological Data</b> Model #: <u>K3500</u> Time Obs/Meas: <u>10:10</u> Serial #: <u>2058303</u> Precipitation: Yes (explain) <u>No</u> Wind: Steady / Gusty / <u>Calm</u> Avg Wind Speed/Direction: <u>7 W</u> m/s ( <u>MPH</u> ) Temp (°F): <u>74.3</u> RH (%): <u>62.2</u> Bar Psr (Hg): <u>29.85</u> Cloud Cover (%): <u>0%</u>	
--	--	--	--	---	--

Loc. ID	Start Time (hh:mm)	Stop Time (hh:mm)	Notes/Events
	06:49	07:30	Start/Stop
	08:19		VA Flyover
	:22		Truck unload, then SW dump, then more truck unload
	:24		Private Jet
	28		VA Flyover
	30		Jetblue?
	37		Low dump, then distant SW flyover
	40		AK flyover
	42		AK flyover?
	47		British Airways
	51		Back up alarm
	55		Flyover no ID
	9:00		Two low drops
	9:02		continued loader unloading + truck dump
	:04		Low Flyover no ID
	07		VA Flyover
	16		Back up alarm
	18		AK distant FO
	19		Small VA plane
	22		DL distant FO
	24		DL Flyover
	29		MasAir FO
	31		Loader pick up + low
	34		AK flyover, Atlas activity up 2 excavators + 1 crane
	35		Low Rumble at Atlas, not a plane
	36		AK Flyover
	37		Low Crunch
	40		Frontier F.O.
	44		Low Crash
	48		Distant Ph Flyover
	50		AA Flyover
	51		Back up alarm

Additional Notes/Comments: \_\_\_\_\_ Photos Taken? Yes No

Noise Sources (circle all that apply): distant aircraft • roadway traffic • rail • landscaping • rustling leaves  
 children playing • dogs barking • birdcall • insects • mechanical

Additional Notes on Reverse or Indicated Separate Sheet(s)

AECOM Acoustics and Noise Control Practice  
**FIELD NOISE MEASUREMENT DATA FORM**

Loc. ID	Start Time (hh:mm)	Stop Time (hh:mm)	Notes/Events
	09:53		Distant FO, then load unload
	10:06		AA Flyover
	10:10		AA Flyover
	10:21		Distant DL flyover, Atlas down to 1 excavator
	22		UA Flyover
	24		UA Flyover
	25		no ID Flyover + distant DL
	27		Private Jet
	29		AA flyover
	35		Train horn to West??
	36		Green Plane F/O
	40		Red Claw back running between M2+3
	41		More horn to the West?
	44		Distant DL flyover
	45		Small Prop Plane + Odor
	55		loud crash at NW side
	56		Distant FO, no ID
	58		Jetblue FO
	11:02		load unload
	03		Private Jet
	04		Private Jet #2
	05		Spirit FO
	11:08		Huge rumbling crash SW, then distant private Jet
	11:11		Jetblue F.O.
	11:13		UA Flyover
	15		Private Jet
	24		SW Flyover then load unload at SW
	25		SW Flyover then load pile move
	27		Distant DL Flyover
	28		Train
	32		Soft thumps SW corner
	33		DL Flyover
	34		Small commercial jet, no ID + UA Flyover
	37		UA flyover
	38		Spirit FO
	40		Jetblue FO
	41		Fairly quiet, 1 excavator running
	42		Private Jet
	44		UA flyover
	45		Back up alarm
	46		UA flyover
		15:30	Stop

MONITORING

AECOM Acoustics and Noise Control Practice

FIELD NOISE MEASUREMENT DATA FORM

Project Name: Jordan HS LAUSD Project #: \_\_\_\_\_ Date: Wed 2/24/21 Page \_\_\_\_\_ of \_\_\_\_\_  
 Measurement Location: M2 Analyst: Sched

<b>Sound Level Meter</b> Model #: <u>LXT1</u> Serial #: <u>6202</u> Weighting: <u>A/C / Flat</u> Response: <u>Slow / Fast / Impl</u> Windscreen: <u>Yes / No (explain)</u>		<b>Field Calibration</b> Model #: <u>CAL200</u> Serial #: <u>2794</u> Calibration Level (dB): <u>94 / 114</u> Pre-Test: <u>-0.05</u> dBA Post-Test: <u>0.01</u> dBA		<b>Meteorological Data</b> Model #: <u>K3500</u> Time Obs/Meas: <u>10:10</u> Serial #: <u>2058303</u> Precipitation: Yes (explain) <u>No</u> Wind: Steady / Gusty / <u>Calm</u> Avg Wind Speed/Direction: <u>7W</u> m/s / <u>(MPH)</u> Temp (°F): <u>74.3</u> RH (%): <u>62.2</u> Bar Psr (Hg): <u>29.89</u> Cloud Cover (%): <u>0%</u>	
Topo: <u>Flat / Hill</u> Terrain: <u>Hard / Soft / Mixed / Agg / Snow</u>		GPS Coordinates (at SLM location)			

Loc. ID	Start Time (hh:mm)	Stop Time (hh:mm)	Notes/Events
	06:43	07:37	Start
	:46		Low activity starting at Atlas, 1 leader not visible
	:52		Claw starting up, loud drop and bang train after
	07:05		Large Pile drop
	:06		Plane Blue
	:08		United Flyover, continued 1 claw operations
	:10		small prop plane
	:13		Low crash
	:20		Low drop
	:25		Fedex Flyover, soft thumping
	:30		Soft Thumping
	31		Back up alarm + chopper
	<del>34</del> 41		Train, then loud bang
	44		United distant
	49		Fedex FO.
	53		Private Jet
	57		AK Flyover, continued 1 claw ops
	59		AK Flyover
	8:03		AK Flyover
	05		Soft thumping
	07		header thumping
	09		AK flyover
	11:48		Back up alarm
	11:51		AK Flyover
1			
M1	12:47		UA Flyover → Loud unload Atlas
	:50		Back up Alarm
	:52		Chopper West
	:55		Loud pile drop
	1:06		British Airways Distant FO
	1:08		Soft thumping
	1:10		Loud unload

Additional Notes/Comments: \_\_\_\_\_ Photos Taken? Yes / No

Noise Sources (circle all that apply): distant aircraft • roadway traffic • rail • landscaping • rustling leaves  
 children playing • dogs barking • birdcall • insects • mechanical

Additional Notes on Reverse or Indicated Separate Sheet(s)

MONITORING

AECOM Acoustics and Noise Control Practice  
**FIELD NOISE MEASUREMENT DATA FORM**

Loc. ID	Start Time (hh:mm)	Stop Time (hh:mm)	Notes/Events
M1	1:14		Load unload
	15		Spirit FO
	16		Chopper
	17		DL distant flyby
	23		only 1 excavator running, train passby
	24		New Zealand Air FO
	27		KLM Flyover
	28	1:31	Back up alarm
	32		Load car
	33		AA flyover + large pile dump
	36		UA flyover
	39		AA flyover
	42		Spirit FO
	49		Back up alarm
	1:53		Pile move NW
	1:57		M1 moved North+East ~30 ft
	2:01		AA flyover
	2:04		AA flyover
	2:06		UA Flyover
	07		Large red+white plane
	09		large unload
	10		AKO flyover
	23		distant SW flyover
	26		Blue plane no ID
	28		AA Flyover
	32		Back up alarm → distant DL flyover
	34		DHL flyover
	2:54		Lufthansa? flyover → chopper
	56		large dump at Atlas → distant FO
	2:59		UA flyover
	3:00		Dump Atlas
	01		Small AA jet
	3:04		Cargolux? Flyover
	3:10		Distant Private Jet
	16		AA flyover
	18		Private Jet
		15:36	Stop at M2

MONITORING

AECOM Acoustics and Noise Control Practice  
**FIELD NOISE MEASUREMENT DATA FORM**

Project Name: Jordan HS Project #: \_\_\_\_\_ Date: Mon 3/1/21 Page \_\_\_\_\_ of \_\_\_\_\_  
 Measurement Location: M1 Analyst: Schad

<b>Sound Level Meter</b> Model #: <u>LxT1</u> Serial #: <u>6201</u> Weighting: <u>A</u> / C / Flat Response: <u>Slow</u> / Fast / Impl Windscreens: <u>Yes</u> / No (explain)		<b>Field Calibration</b> Model #: <u>CAL200</u> Serial #: <u>2794</u> Calibration Level (dB): <u>94</u> / 114 Pre-Test: <u>0.05</u> dBA Post-Test: <u>-0.03</u> dBA		<b>Meteorological Data</b> Model #: <u>K2500</u> Time Obs/Meas: <u>15:30</u> Serial #: <u>2058303</u> Precipitation: Yes (explain) <u>No</u> Wind: Steady / Gusty / <u>Calm</u> Avg Wind Speed/Direction: <u>6.6 W</u> m/s / <u>MPH</u> Temp (°F): <u>76.3</u> RH (%): <u>29.2</u> Bar Psr (Hg): <u>29.93</u> Cloud Cover (%): <u>0.0%</u>	
Topo: <u>Flat / Hilly</u> Terrain: <u>Hard</u> / <u>Soft</u> / Mixed / Agg / Snow		<b>GPS Coordinates (at SLM location)</b>			

Loc. ID	Start Time (hh:mm)	Stop Time (hh:mm)	Notes/Events
	<u>06:47</u>		<u>Start</u>
	<u>07:09</u>		<u>1 excavator running, fairly quiet</u>
	<u>07:11</u>		<u>Red claw starting up</u>
	<u>13</u>		<u>BU Alarm</u>
	<u>7:16</u>		<u>Fedex FO</u>
	<u>7:26</u>		<u>up to 2 excavators + 1 claw</u>
	<u>7:29</u>		<u>Cargo Air</u>
	<u>30</u>		<u>load pile move</u>
	<u>32</u>		<u>private jet</u>
	<u>33</u>		<u>claw unload red near M3, load drop</u>
	<u>7:30</u>		<u>AA FO</u>
	<u>56</u>		<u>Sprint FO + pile move</u>
	<u>8:01</u>		<u>AA FO</u>
	<u>02</u>		<u>Train passby</u>
	<u>05</u>		<u>Train</u>
	<u>07</u>		<u>Small Jet FO</u>
	<u>22</u>		<u>Back up alarm</u>
	<u>25</u>		<u>eda + FO UA</u>
	<u>30</u>		<u>red claw back in action</u>
	<u>31</u>		<u>prop plane</u>
	<u>31</u>		<u>load drop</u>
	<u>32</u>		<u>load drop</u>
	<u>36</u>		<u>SW flyover</u>
	<u>41</u>		<u>UA flyover</u>
	<u>8:57</u>		<u>Load claw unload</u>
	<u>59</u>		<u>Red + black plane FO, then load drop</u>
	<u>9:01</u>		<u>no ID FO + unloading</u>
	<u>9:19</u>		<u>Jettie FO, load crush glass</u>
	<u>:20</u>		<u>load unload</u>
	<u>:26</u>		<u>Load unloading</u>
	<u>31</u>		<u>BA flyover</u>
	<u>10:08</u>		<u>Quiet</u>

Additional Notes/Comments: \_\_\_\_\_ Photos Taken? Yes / No

Noise Sources (circle all that apply): distant aircraft • roadway traffic • rail • landscaping • rustling leaves  
 children playing • dogs barking • birdcall • insects • mechanical

Additional Notes on Reverse or Indicated Separate Sheet(s)

**MONITORING**

**AECOM Acoustics and Noise Control Practice  
FIELD NOISE MEASUREMENT DATA FORM**

Loc. ID	Start Time (hh:mm)	Stop Time (hh:mm)	Notes/Events
	10:09		Train
	11		AA flyover
	10:14		Oder = quiet landing + AA FO
	17		Flyover
	39		BU alarm
	10:41		Load claw pickup → prop plane
	44		DL flyover
	10:50		PL FO + BU alarm
	11:05		BU Alarm + United FO
	11:08		United FO
	11:29		BU alarm and unload
	11:42		helicopter
	49		Back up alarm
	12:50		1 claw, 2 excavators
	13:01		Emirates Air
	13:09		Load crash
	13:15		Soft thumping
	18		BU Alarm + UA F.O.
	21		Spirit FO
	24		AA F.O.
	35		UA Flyover
	46		Train
	2:01		BU Alarm
	2:04		Flyover
	2:25		Ambient
	29		1 claw
	2:33		Helicopter
	34		Big Jet FO
	37		UA FO, 2 excavators, 1 claw
	3:01		Chopper



FIELD NOISE MEASUREMENT DATA FORM

Project Name: Jordan HS Project #: \_\_\_\_\_ Date: 3/1/21 Page \_\_\_\_\_ of \_\_\_\_\_  
Measurement Location: M2 Analyst: Schud

Sound Level Meter		Field Calibration		Meteorological Data	
Model #: <u>L21</u>	Model #: <u>CAL200</u>	Model #: <u>K3500</u>	Time Obs/Meas:		
Serial #: <u>6202</u>	Serial #: <u>2794</u>	Serial #: <u>2058303</u>	<u>15:30</u>		
Weighting: <u>A / C / Flat</u>	Calibration Level (dB): <u>94.114</u>	Precipitation: Yes (explain) / <u>No</u>			
Response: <u>Slow / Fast / Impl</u>	Pre-Test <u>0.02</u> dBA	Wind: Steady / Gusty / <u>Calm</u>			
Windscreen: <u>Yes / No (explain)</u>	Post-Test <u>-0.02</u> dBA	Avg Wind Speed/Direction: <u>6.6w</u> m/s / MPH <u>(6)</u>			
Topo: Flat / Hilly	GPS Coordinates (at SLM location)	Temp (°F): <u>76.3</u> RH (%): <u>23.2</u>			
Terrain: Hard / Soft / Mixed / Agg / Snow		Bar Psr (Hg): <u>29.93</u> Cloud Cover (%): <u>0%</u>			

Loc. ID	Start Time (hh:mm)	Stop Time (hh:mm)	Notes/Events
	<u>06:48</u>		<u>Start</u>
		<u>15:36</u>	<u>Stop</u>

Additional Notes/Comments: \_\_\_\_\_ Photos Taken? Yes / No

Noise Sources (circle all that apply): distant aircraft • roadway traffic • rail • landscaping • rustling leaves  
children playing • dogs barking • birdcall • insects • mechanical

Additional Notes on Reverse or Indicated Separate Sheet(s)

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# Attachment C

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## Photo Log



**Photograph 1**  
**Subject:** NMP1  
**View:** Northeast  
**Date Taken:**  
February 22, 2021



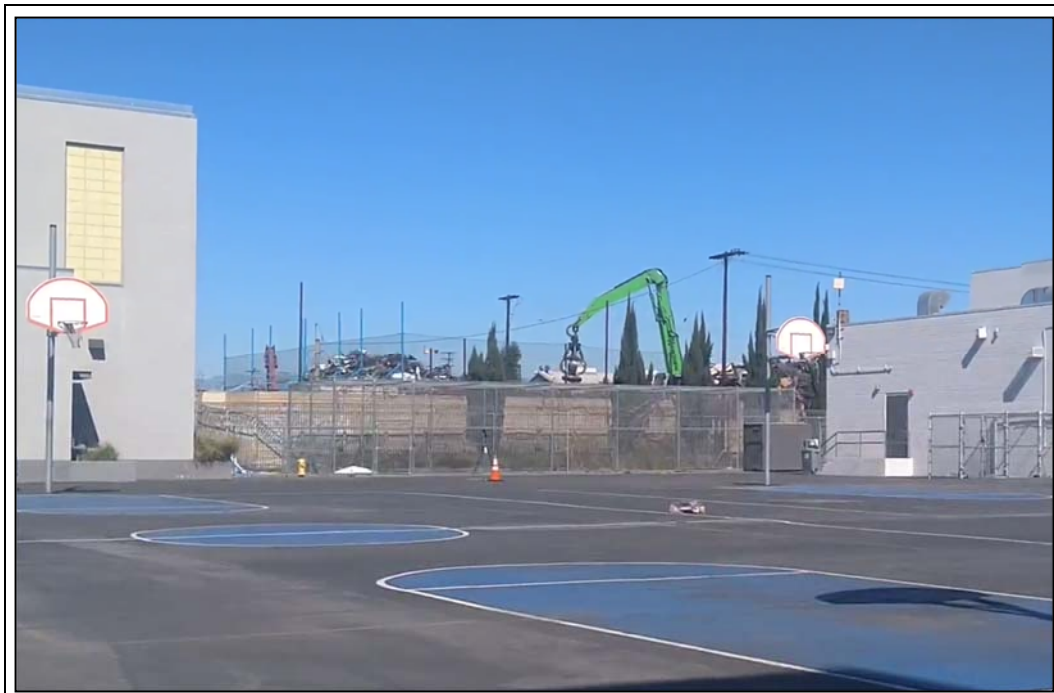
**Photograph 2**  
**Subject:** NMP1  
**View:** South  
**Date Taken:**  
February 22, 2021



**Photograph 3**  
**Subject:** NMP2  
**View:** North  
**Date Taken:**  
February 22, 2021



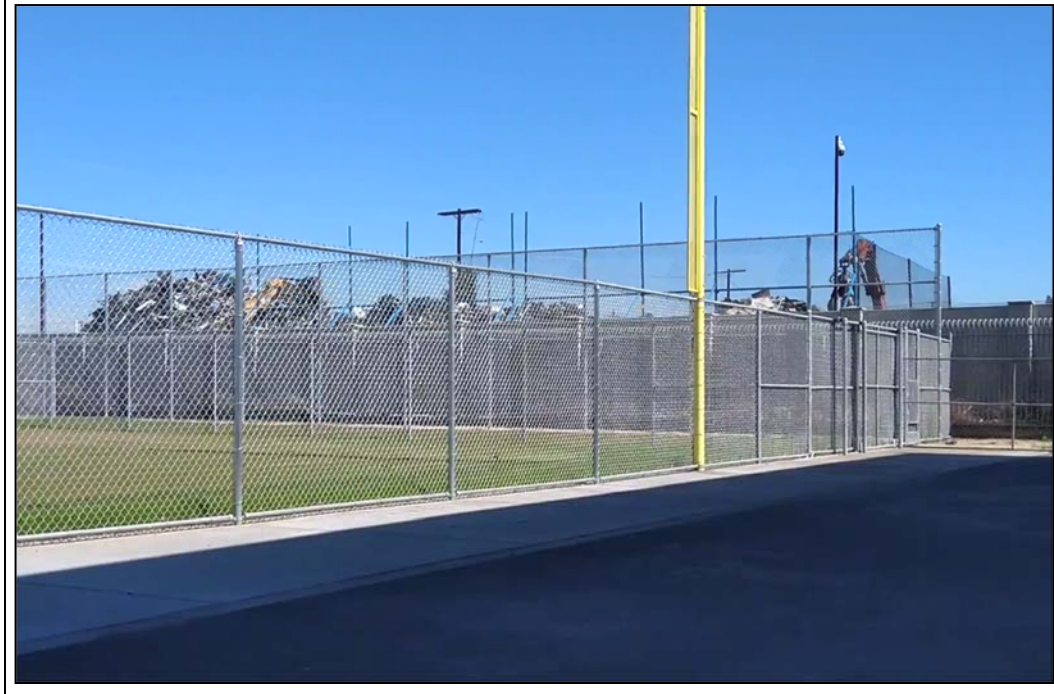
**Photograph 4**  
**Subject:** NMP2  
**View:** South  
**Date Taken:**  
March 1, 2021



**Photograph 5**  
**(Video Screenshot)**

**Subject:** Atlas Facility  
from JHS Basketball  
Courts

**Date Taken:**  
February 22, 2021



**Photograph 6**  
**(Video Screenshot)**

**Subject:** Atlas Facility  
from JHS Softball Field  
Edge

**Date Taken:**  
February 23, 2021

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# Attachment D

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## Collected Sound Level Data

Memo  
 Jordan High School Noise Survey

Time	NMP1 - Monday 2/22/2021						NMP2 - Monday 2/22/2021					
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>
07:30:00	67.9	59.1	73.0	71.1	66.9	61.3						
07:31:00	66.4	56.0	73.8	70.2	64.0	58.7						
07:32:00	66.3	56.8	74.4	70.2	63.2	58.7						
07:33:00	63.6	58.6	69.0	66.6	62.6	59.6						
07:34:00	65.5	56.7	71.9	68.5	64.2	59.9						
07:35:00	61.5	54.4	67.0	64.3	60.7	57.3						
07:36:00	65.5	56.7	73.6	69.6	63.1	59.4						
07:37:00	60.9	55.0	66.3	64.0	60.0	56.2						
07:38:00	61.9	55.2	69.4	65.7	59.9	56.0						
07:39:00	65.5	56.0	73.5	68.9	63.6	59.1						
07:40:00	65.1	55.4	73.4	70.4	61.4	56.5						
07:41:00	65.1	53.8	74.3	70.4	59.0	54.5						
07:42:00	62.1	54.3	67.9	65.4	60.5	57.3						
07:43:00	62.8	55.4	71.8	65.8	60.4	57.4						
07:44:00	62.2	54.5	70.8	65.0	59.5	56.6						
07:45:00	59.2	54.0	67.5	63.6	56.4	54.6						
07:46:00	57.3	53.4	64.3	59.9	56.2	54.0						
07:47:00	54.7	52.0	63.6	57.2	53.6	52.6						
07:48:00	59.5	52.1	66.5	64.7	55.4	53.6						
07:49:00	54.4	51.8	61.6	56.1	53.4	52.3						
07:50:00	54.1	51.2	59.8	55.8	53.5	51.8						
07:51:00	56.6	51.5	66.0	59.7	54.5	52.5	58.4	53.5	67.2	62.0	55.8	54.0
07:52:00	55.8	51.0	65.2	58.6	53.4	51.7	56.2	52.6	65.7	58.2	54.7	53.4
07:53:00	55.8	51.4	64.0	57.2	53.9	52.3	56.6	52.9	65.2	57.7	55.0	53.4
07:54:00	56.3	51.5	64.6	59.5	54.8	52.7	57.0	53.4	62.7	58.9	56.3	54.5
07:55:00	57.0	52.8	61.3	59.7	56.0	54.1	58.4	54.8	63.7	60.7	57.7	55.6
07:56:00	62.9	54.0	69.4	66.8	60.9	55.7	61.9	55.0	66.6	64.9	61.4	57.7
07:57:00	65.1	52.6	76.8	68.6	59.4	54.6	63.4	53.2	70.3	67.1	61.6	54.8
07:58:00	59.3	52.3	66.8	62.7	57.7	53.5	61.5	52.6	69.8	65.9	58.9	54.5
07:59:00	58.0	53.4	63.7	60.1	57.5	54.7	62.5	54.7	70.2	65.6	61.1	56.1
08:00:00	66.2	55.6	73.1	70.1	62.2	58.0	65.0	58.6	71.5	68.3	62.5	59.9
08:01:00	63.6	54.2	71.9	67.6	61.7	54.9	63.4	55.9	73.2	65.6	61.2	57.6
08:02:00	66.3	55.0	72.4	70.1	64.1	59.6	63.0	56.4	68.1	66.1	61.9	58.3
08:03:00	67.2	53.4	75.7	70.6	63.2	55.5	65.1	55.8	73.8	69.4	62.2	57.3
08:04:00	63.7	54.1	71.4	67.3	60.9	55.8	61.1	54.5	68.6	63.5	59.8	57.5
08:05:00	68.0	55.7	75.1	71.8	66.3	60.3	64.9	57.4	71.6	68.1	63.8	59.7
08:06:00	66.4	53.1	74.4	70.5	62.5	56.3	65.0	57.2	74.2	68.4	61.5	58.5
08:07:00	66.9	52.6	73.6	70.7	64.3	56.1	63.4	54.6	68.9	67.4	61.8	56.4
08:08:00	64.3	55.6	72.3	68.8	60.9	56.7	62.2	57.4	68.6	65.2	60.9	58.3
08:09:00	62.8	53.5	72.0	67.5	58.4	54.8	62.6	56.2	69.6	65.5	61.5	58.2
08:10:00	65.7	54.4	74.8	70.2	62.7	57.7	63.1	53.5	66.7	65.9	62.9	55.8
08:11:00	65.1	53.2	73.2	69.3	61.4	55.3	61.5	54.3	70.1	65.3	59.1	55.0
08:12:00	62.7	51.6	73.9	66.6	58.5	54.1	60.2	53.1	71.5	62.6	56.7	54.4
08:13:00	62.7	53.0	73.3	64.1	58.0	54.0	59.4	53.3	68.7	62.1	57.0	54.0
08:14:00	60.7	52.8	66.4	65.0	58.8	54.0	61.5	53.2	67.4	66.0	58.0	54.2
08:15:00	53.6	50.8	56.4	55.0	53.4	51.6	55.1	52.1	60.3	57.1	54.8	52.8
08:16:00	55.2	49.6	60.0	58.5	54.2	50.5	56.0	51.0	60.3	59.6	54.5	51.6

Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 2/22/2021						NMP2 - Monday 2/22/2021					
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>
08:17:00	53.3	49.6	57.1	55.1	52.9	50.4	54.7	50.9	59.2	56.9	54.0	51.5
08:18:00	52.0	50.3	55.1	53.5	51.7	50.7	54.0	51.9	56.7	55.2	53.9	52.6
08:19:00	54.6	51.6	61.6	56.8	53.3	52.0	56.1	52.4	65.5	58.0	54.4	53.0
08:20:00	61.3	57.6	64.5	63.2	60.8	59.3	65.2	60.0	68.9	67.1	64.9	62.3
08:21:00	60.5	57.1	63.7	62.3	60.2	58.6	65.0	56.4	68.2	66.8	65.1	60.8
08:22:00	61.4	57.0	65.8	63.1	61.0	58.8	65.8	58.4	72.0	67.9	65.1	61.7
08:23:00	56.6	50.5	63.6	61.6	53.9	51.8	60.5	53.4	68.5	66.3	55.9	54.2
08:24:00	57.9	52.2	62.2	60.8	56.7	52.8	59.6	54.1	64.2	63.4	57.7	54.7
08:25:00	53.6	49.9	57.2	55.3	53.2	51.1	55.9	53.0	62.1	57.6	55.3	53.5
08:26:00	54.4	50.7	59.7	56.9	53.6	51.4	57.1	53.2	61.9	58.4	56.7	54.6
08:27:00	53.5	49.7	60.3	55.9	52.3	50.8	57.7	54.4	62.1	59.4	57.3	55.1
08:28:00	59.1	51.9	64.9	61.2	59.3	53.0	61.3	53.3	68.9	64.0	60.7	56.8
08:29:00	61.2	54.6	70.3	63.0	60.3	57.7	65.7	59.1	75.2	67.4	65.0	61.9
08:30:00	59.6	51.1	63.2	61.1	59.7	56.4	64.9	56.6	69.5	67.1	64.5	61.8
08:31:00	60.7	56.3	67.7	61.9	60.3	58.8	65.9	60.5	70.3	67.4	65.7	63.5
08:32:00	59.6	52.6	62.7	60.9	59.7	57.5	64.1	55.9	67.9	66.2	63.9	60.2
08:33:00	61.0	58.1	64.2	62.2	60.8	59.6	64.1	57.9	67.6	66.0	64.2	59.3
08:34:00	63.3	50.7	74.6	65.7	59.9	54.0	67.3	54.4	79.3	70.2	63.6	58.3
08:35:00	65.0	52.5	76.1	68.1	61.6	57.7	70.2	54.1	81.9	73.6	64.2	60.2
08:36:00	63.1	53.6	71.5	67.3	60.4	56.6	67.2	57.1	75.1	71.9	62.4	59.7
08:37:00	63.6	48.3	72.1	67.5	61.0	49.9	67.7	50.9	76.2	72.0	64.8	52.4
08:38:00	65.3	49.4	76.7	69.0	60.9	51.4	69.0	52.4	80.1	72.9	64.5	54.1
08:39:00	63.3	52.3	71.6	66.8	60.8	55.9	67.3	56.3	76.8	71.2	63.4	58.9
08:40:00	61.9	49.2	73.5	66.3	56.0	51.0	66.1	51.5	77.8	71.6	58.6	53.0
08:41:00	68.0	51.4	75.3	71.7	66.6	57.0	72.3	54.7	79.8	76.2	70.8	60.3
08:42:00	59.4	49.5	66.7	63.4	56.8	51.1	63.8	52.7	72.3	68.7	59.6	54.1
08:43:00	58.4	49.3	66.1	61.4	57.4	50.9	62.1	52.5	71.4	66.3	59.4	53.8
08:44:00	53.4	48.0	63.0	54.4	52.5	50.1	57.9	51.2	65.6	61.4	56.0	53.1
08:45:00	51.5	48.2	55.9	53.8	51.1	48.7	56.7	51.3	62.0	59.6	56.1	51.9
08:46:00	52.4	47.8	59.6	54.7	51.6	49.1	57.4	51.4	65.0	60.8	55.8	52.3
08:47:00	64.6	51.4	72.7	69.5	61.1	53.8	65.0	56.4	72.0	68.8	62.2	58.2
08:48:00	54.4	48.6	60.6	57.6	52.9	50.1	56.6	51.8	63.5	60.1	54.8	52.6
08:49:00	67.6	51.8	75.4	71.7	65.4	53.9	71.4	53.4	78.5	75.5	69.5	55.4
08:50:00	67.3	52.1	76.7	71.4	63.6	54.6	71.6	53.9	80.2	76.0	68.2	57.7
08:51:00	63.4	49.5	72.2	67.6	59.8	51.3	68.5	51.8	78.1	73.1	63.8	52.8
08:52:00	66.2	49.6	73.9	70.9	62.3	51.0	70.4	51.2	78.7	74.9	67.6	53.9
08:53:00	68.8	52.6	76.1	72.3	67.3	55.8	72.6	54.4	81.5	76.1	70.8	58.3
08:54:00	58.3	49.5	68.2	62.6	54.3	50.6	63.0	52.3	72.5	68.1	57.9	53.7
08:55:00	62.8	50.7	71.9	66.9	56.6	52.1	66.2	54.4	77.7	71.3	59.6	55.7
08:56:00	55.4	48.9	67.4	57.1	52.7	49.8	53.9	50.0	61.6	55.8	53.0	50.9
08:57:00	67.7	49.8	77.9	72.5	58.3	52.1	63.4	52.1	70.7	67.0	60.8	53.9
08:58:00	59.9	50.7	69.9	64.0	57.0	52.0	62.2	51.4	69.3	66.3	59.6	52.8
08:59:00	62.6	52.0	69.8	65.5	61.4	54.8	61.3	51.7	70.8	64.6	58.3	54.0
09:00:00	55.7	50.6	65.1	58.3	54.0	51.8	54.3	51.0	58.8	56.3	53.7	52.1
09:01:00	56.3	51.9	59.6	58.2	56.2	53.2	57.8	52.1	64.1	62.0	54.3	52.6
09:02:00	62.9	50.4	70.3	67.5	59.9	52.9	58.6	51.1	65.4	63.3	55.3	51.7
09:03:00	64.2	49.8	73.1	69.4	58.7	52.5	67.5	50.2	77.6	73.3	54.0	52.0



Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 2/22/2021						NMP2 - Monday 2/22/2021					
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>
09:04:00	71.0	61.1	78.8	74.3	69.2	65.7	74.1	65.6	82.1	77.0	72.6	69.0
09:05:00	67.3	56.0	78.0	71.1	63.9	57.4	70.9	55.1	80.9	75.2	67.4	57.7
09:06:00	64.8	55.4	72.1	68.4	63.2	56.6	66.6	55.5	74.9	71.7	62.6	57.3
09:07:00	62.9	53.7	69.6	66.5	61.5	56.2	65.6	56.0	75.1	70.4	60.7	57.1
09:08:00	66.2	54.0	76.2	70.4	63.0	57.4	70.6	54.1	79.9	75.6	61.8	55.4
09:09:00	67.8	50.4	75.4	71.3	66.4	51.6	71.7	53.9	78.7	75.4	70.4	56.1
09:10:00	60.4	50.3	71.2	63.8	56.3	52.0	63.6	52.2	73.8	66.5	59.8	54.1
09:11:00	53.6	49.6	60.3	56.5	52.1	50.3	58.7	50.7	68.9	62.5	55.0	52.6
09:12:00	62.2	49.5	72.2	66.6	58.1	50.6	66.4	51.0	80.4	70.3	62.9	52.5
09:13:00	70.5	51.4	78.8	74.1	69.0	58.7	73.8	53.5	80.5	77.5	72.3	61.5
09:14:00	62.5	52.5	70.4	66.3	59.6	57.0	68.2	53.0	78.6	72.6	62.4	57.4
09:15:00	57.6	51.2	64.7	61.2	54.5	52.1	61.5	51.1	71.9	65.5	56.2	52.7
09:16:00	66.9	52.5	77.2	72.4	59.0	53.2	61.7	51.6	69.7	67.0	57.4	53.6
09:17:00	69.9	60.5	77.4	72.5	68.9	63.4	71.4	57.8	79.7	75.8	67.5	59.8
09:18:00	71.0	63.2	79.8	74.0	69.7	65.6	74.1	66.1	81.9	76.7	73.0	68.7
09:19:00	67.9	54.4	76.5	71.1	66.7	58.1	70.5	55.2	79.6	74.5	66.7	58.4
09:20:00	67.2	57.0	76.4	71.4	63.9	58.5	66.2	55.1	74.4	70.8	63.3	58.6
09:21:00	62.3	52.8	69.9	66.5	59.9	55.2	65.5	54.8	74.5	70.5	61.4	56.4
09:22:00	61.0	53.5	67.2	64.2	59.9	56.1	65.8	56.0	75.8	68.8	63.9	58.4
09:23:00	68.1	54.0	76.2	71.9	66.4	56.2	72.6	53.1	79.9	76.7	71.0	55.4
09:24:00	66.7	52.4	74.0	71.0	63.9	56.9	71.3	56.3	78.8	75.3	68.8	62.4
09:25:00	67.5	50.9	76.9	72.3	63.1	55.7	71.3	52.2	81.2	76.2	63.4	56.2
09:26:00	65.9	51.0	75.9	69.6	62.2	52.7	74.1	52.2	86.3	77.7	67.1	55.7
09:27:00	62.4	48.9	74.2	67.1	53.4	51.1	64.6	52.1	78.8	66.6	57.4	53.2
09:28:00	53.9	50.8	58.0	55.5	53.4	52.0	58.5	52.8	63.9	61.4	57.4	54.8
09:29:00	57.1	50.7	69.3	57.8	53.4	51.6	60.0	52.4	70.7	62.1	57.6	54.7
09:30:00	57.7	50.6	69.4	58.2	54.4	52.2	57.8	53.0	63.7	60.2	57.0	55.1
09:31:00	58.6	52.1	69.2	60.4	55.6	53.0	58.2	52.2	63.2	61.3	57.2	53.3
09:32:00	57.7	51.2	66.1	60.4	56.7	52.6	61.8	56.0	67.8	64.2	61.2	58.4
09:33:00	57.9	49.3	65.8	62.6	53.8	51.2	56.7	49.6	64.8	60.9	54.3	51.8
09:34:00	53.6	48.7	63.6	55.9	51.4	49.9	53.4	48.8	60.4	55.5	52.5	50.2
09:35:00	58.2	48.2	67.2	61.3	55.8	51.2	56.8	48.7	62.7	60.8	53.6	50.6
09:36:00	53.3	50.7	56.7	54.7	52.9	51.5	53.1	50.4	55.8	54.7	52.8	51.2
09:37:00	57.3	50.4	63.1	61.3	54.4	51.7	57.9	49.5	63.0	61.7	54.8	51.2
09:38:00	59.8	53.8	62.3	61.1	59.8	58.2	62.5	54.6	66.3	64.8	62.4	58.9
09:39:00	61.0	58.4	64.3	62.3	60.7	59.5	64.7	59.1	72.1	67.4	63.4	60.3
09:40:00	60.0	56.4	62.5	61.4	60.0	58.0	64.1	58.7	69.8	66.8	63.1	60.3
09:41:00	61.2	52.3	68.7	63.7	60.8	55.1	62.1	53.5	68.4	66.0	61.1	55.6
09:42:00	56.8	50.5	62.1	60.0	55.7	52.4	57.3	52.5	61.8	59.7	56.0	53.7
09:43:00	58.2	51.0	68.8	61.1	55.6	52.2	58.8	53.2	66.9	61.9	57.4	54.5
09:44:00	57.8	51.0	68.4	60.8	55.0	52.5	56.9	53.0	66.7	58.4	55.1	54.0
09:45:00	56.0	50.1	67.9	56.1	53.0	51.8	56.5	54.0	66.1	57.4	55.4	54.4
09:46:00	57.6	50.8	63.3	61.5	54.9	51.7	61.8	53.4	68.4	65.5	57.5	54.0
09:47:00	59.2	50.2	63.4	61.6	59.1	54.9	62.6	55.3	66.0	64.7	62.5	58.0
09:48:00	61.9	53.5	68.6	63.8	60.8	58.7	61.5	55.4	65.1	63.4	61.1	59.0
09:49:00	57.6	51.5	62.3	60.5	57.1	52.0	61.2	50.7	66.9	65.8	55.2	51.7
09:50:00	59.0	51.9	66.8	62.2	56.5	53.1	60.9	50.8	69.0	66.6	55.0	51.4

Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 2/22/2021						NMP2 - Monday 2/22/2021					
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>
09:51:00	59.3	53.3	68.5	61.5	58.1	55.4	63.2	52.2	72.3	67.0	60.2	54.3
09:52:00	60.5	49.9	68.7	65.2	57.7	52.4	61.6	51.1	66.4	64.4	61.5	53.9
09:53:00	60.3	51.1	68.0	63.7	58.3	52.9	57.1	50.6	63.6	61.0	55.1	52.0
09:54:00	64.9	49.7	71.8	70.2	61.6	53.4	67.9	54.3	76.8	74.0	62.1	57.2
09:55:00	62.5	52.9	70.6	66.2	60.3	55.2	67.5	54.1	80.3	71.5	60.1	55.6
09:56:00	63.9	51.4	72.7	68.2	60.9	54.5	67.8	51.0	78.2	72.8	59.5	53.2
09:57:00	67.9	55.3	75.8	71.9	65.5	58.0	71.3	56.8	80.5	75.1	68.4	59.5
09:58:00	64.2	55.4	72.1	68.7	61.6	56.8	66.0	53.0	74.6	70.5	61.9	55.7
09:59:00	61.4	51.2	70.1	66.6	57.6	52.5	60.6	51.9	71.3	65.1	56.7	52.9
10:00:00	67.8	52.8	75.1	71.2	66.8	54.2	70.6	52.5	77.6	74.1	69.6	54.8
10:01:00	67.3	52.5	76.4	71.4	64.9	56.4	71.5	54.6	80.8	75.9	67.4	58.5
10:02:00	60.6	50.7	69.1	66.0	55.2	52.1	62.5	51.3	72.2	66.6	58.2	52.5
10:03:00	63.0	50.4	70.2	66.8	61.5	52.9	66.9	50.8	75.5	70.2	64.7	54.6
10:04:00	68.6	49.1	76.6	72.4	67.0	52.0	71.9	50.4	79.5	75.7	70.0	53.8
10:05:00	62.7	48.9	73.0	67.1	59.0	49.9	67.8	47.6	79.6	72.5	60.9	48.4
10:06:00	63.2	48.3	69.7	66.3	62.1	56.8	67.8	52.1	75.9	71.6	65.9	59.2
10:07:00	68.2	47.0	83.1	71.5	64.8	52.5	72.4	49.8	85.9	75.7	69.1	54.4
10:08:00	69.2	51.6	82.7	71.2	65.9	61.0	72.5	53.3	85.1	75.3	69.4	64.3
10:09:00	59.2	48.1	67.7	64.4	53.6	49.8	64.0	50.2	72.9	69.6	57.1	53.9
10:10:00	57.5	44.5	66.6	62.2	52.2	45.7	63.2	47.9	72.8	68.8	55.3	48.5
10:11:00	63.4	48.0	73.5	67.2	59.2	52.7	67.1	49.4	79.7	71.6	58.5	52.9
10:12:00	69.2	47.4	79.8	72.8	66.8	57.7	72.9	51.5	81.3	76.6	71.3	59.9
10:13:00	48.7	44.0	56.3	51.6	46.6	45.3	53.4	47.1	67.7	54.7	49.2	47.7
10:14:00	58.9	47.7	65.3	63.5	56.2	50.0	64.3	50.2	73.6	68.6	60.2	51.7
10:15:00	61.7	44.9	76.3	60.4	48.6	45.7	68.3	48.6	82.5	70.1	56.5	50.6
10:16:00	59.1	43.7	71.0	63.3	50.7	45.4	65.7	47.9	77.7	69.4	58.6	49.8
10:17:00	57.7	43.9	67.2	63.0	50.2	45.2	65.1	48.2	78.5	69.2	57.5	49.9
10:18:00	61.0	46.0	72.3	64.4	56.8	50.1	65.3	51.0	77.0	69.1	59.8	52.6
10:19:00	63.9	52.7	72.7	67.6	61.0	56.0	64.5	51.5	77.1	66.4	58.9	53.1
10:20:00	63.6	49.3	75.6	66.8	58.2	51.2	59.4	48.8	72.8	60.3	53.3	49.9
10:21:00	64.2	49.4	75.2	67.4	59.9	51.8	62.6	50.4	72.9	67.7	57.2	52.3
10:22:00	60.0	49.6	71.6	62.5	55.4	51.6	64.6	50.4	75.8	70.2	57.9	52.9
10:23:00	59.1	51.0	69.0	62.5	57.3	52.0	66.4	51.0	76.9	71.9	61.0	52.1
10:24:00	59.4	46.8	70.5	63.8	49.8	47.5	63.2	47.8	76.3	65.7	52.3	48.9
10:25:00	58.7	47.2	66.6	61.6	57.6	51.6	64.3	51.7	75.1	68.5	60.5	55.4
10:26:00	59.3	45.6	69.9	62.8	52.5	46.8	63.1	48.3	75.2	64.4	54.6	48.9
10:27:00	63.6	44.7	72.9	69.1	56.0	45.9	68.4	48.8	78.7	74.0	56.2	49.9
10:28:00	69.3	59.6	77.5	72.3	68.0	63.1	73.6	63.0	81.1	76.6	72.5	67.5
10:29:00	60.8	50.4	69.9	65.2	57.5	53.3	65.6	52.9	74.6	70.7	60.1	55.8
10:30:00	56.1	45.6	65.8	60.5	52.4	47.5	61.2	48.6	73.1	64.2	58.0	52.6
10:31:00	47.5	45.4	52.4	48.7	47.1	46.1	49.9	46.8	57.1	51.8	48.6	47.7
10:32:00	53.4	47.5	63.1	56.8	50.9	48.4	58.7	49.3	70.8	62.7	53.9	50.8
10:33:00	59.7	48.9	70.3	64.3	56.3	50.7	64.2	50.6	75.5	68.6	58.7	51.8
10:34:00	66.0	49.3	76.8	69.9	62.6	51.8	70.2	53.5	79.3	74.4	67.5	57.8
10:35:00	54.2	47.1	62.0	58.3	52.0	48.5	60.6	49.9	70.3	64.4	56.9	51.7
10:36:00	53.5	48.4	59.5	56.4	52.0	49.5	57.3	50.8	63.8	60.2	55.9	52.4
10:37:00	56.1	48.8	62.1	59.6	54.0	49.9	59.4	50.5	64.1	62.1	58.5	51.7

Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 2/22/2021						NMP2 - Monday 2/22/2021					
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>
10:38:00	57.6	50.1	67.5	61.1	53.1	50.8	56.6	50.1	62.2	61.0	54.3	51.3
10:39:00	61.1	49.3	73.0	62.0	56.6	50.4	59.0	50.0	69.9	61.7	55.5	50.9
10:40:00	58.1	49.0	66.3	61.2	56.3	50.8	57.1	49.8	63.6	60.7	55.0	51.1
10:41:00	53.3	48.2	62.4	55.8	51.1	49.2	53.1	48.9	57.9	56.2	52.0	50.0
10:42:00	61.9	49.1	72.9	68.0	54.5	50.6	59.5	49.6	70.2	64.1	54.0	50.9
10:43:00	57.8	48.6	67.4	61.2	55.9	51.4	55.0	48.7	60.7	57.3	54.3	51.3
10:44:00	64.2	50.2	73.9	69.9	60.0	51.7	61.8	52.5	68.4	65.0	60.7	54.0
10:45:00	61.7	58.5	69.1	62.9	61.3	59.9	61.9	57.5	66.5	63.6	61.8	58.8
10:46:00	62.2	57.4	67.2	65.2	61.1	59.2	64.8	59.8	69.9	67.7	64.0	61.7
10:47:00	62.4	56.2	72.2	63.7	61.6	57.6	63.7	56.0	67.9	65.8	63.6	58.1
10:48:00	58.1	50.1	65.4	61.0	56.8	51.3	59.8	51.9	66.0	63.9	55.4	52.4
10:49:00	53.9	49.2	61.4	57.3	51.7	50.4	55.7	51.8	62.2	58.2	54.4	52.9
10:50:00	51.4	47.7	58.2	54.9	49.5	48.1	54.3	51.5	60.7	57.3	53.1	52.1
10:51:00	55.5	49.7	62.3	59.2	53.3	50.8	57.6	53.6	62.7	60.2	56.3	54.6
10:52:00	59.7	50.6	67.4	62.2	59.0	52.3	63.7	53.1	69.0	66.5	63.7	55.1
10:53:00	61.2	52.3	69.7	65.5	56.8	53.2	62.8	54.1	68.3	66.5	62.0	55.4
10:54:00	63.8	49.0	73.9	68.0	59.9	51.3	68.4	52.7	79.4	71.8	63.7	57.0
10:55:00	64.1	51.2	74.3	68.7	59.3	53.8	65.5	54.8	76.1	68.6	62.7	56.1
10:56:00	63.0	53.3	71.8	67.7	58.8	55.2	63.2	54.0	72.8	66.4	60.4	55.7
10:57:00	64.8	54.8	71.9	68.5	62.1	60.2	65.0	58.0	70.5	67.1	64.7	61.1
10:58:00	61.3	49.9	72.9	62.5	58.1	52.9	64.0	54.1	75.2	66.3	60.4	56.6
10:59:00	65.9	56.5	72.0	69.0	64.6	61.2	69.0	56.6	76.9	72.9	67.0	60.5
11:00:00	63.2	52.7	71.8	66.1	61.5	55.2	67.9	53.9	77.7	71.3	64.9	58.5
11:01:00	61.7	51.7	69.4	64.5	60.6	53.5	65.3	52.3	75.9	68.5	62.7	53.9
11:02:00	67.7	57.4	75.2	71.5	66.3	58.8	71.4	59.3	79.3	75.2	69.7	61.7
11:03:00	63.8	53.5	70.5	66.6	63.0	57.1	69.1	55.4	80.0	72.4	66.3	60.1
11:04:00	59.6	48.7	67.5	63.5	58.1	51.7	65.0	51.3	74.8	70.3	58.8	52.2
11:05:00	63.9	50.3	72.8	67.2	61.0	52.6	66.4	53.1	75.1	70.4	64.2	56.2
11:06:00	68.7	60.3	76.3	72.3	67.1	63.1	72.9	64.5	80.1	76.1	71.4	67.4
11:07:00	64.4	52.2	73.8	68.8	61.0	55.3	69.3	54.8	79.2	73.8	64.5	58.9
11:08:00	62.2	50.5	72.5	67.2	55.9	51.9	67.4	53.9	76.5	72.6	61.1	55.9
11:09:00	68.6	57.0	75.2	72.2	67.1	60.4	72.4	58.7	79.8	76.0	70.9	63.0
11:10:00	64.2	55.2	73.3	67.3	62.9	57.7	68.3	54.9	78.5	71.5	66.1	59.6
11:11:00	61.3	51.0	67.2	64.7	60.4	55.7	65.2	54.1	72.8	67.8	64.3	59.3
11:12:00	59.1	50.3	68.2	63.6	55.1	51.3	65.2	52.8	78.3	66.5	58.7	54.4
11:13:00	61.1	50.5	70.2	65.7	55.1	52.4	65.2	52.6	75.8	69.5	60.1	54.8
11:14:00	60.6	52.7	68.3	64.4	58.7	54.6	65.7	55.2	73.2	70.6	62.2	57.7
11:15:00	68.7	53.5	76.2	72.3	67.2	62.5	72.4	56.3	81.2	76.0	70.7	65.7
11:16:00	68.3	54.5	77.7	72.9	64.5	58.4	71.8	55.3	81.2	76.3	67.3	58.7
11:17:00	59.3	48.1	66.3	64.3	55.7	48.9	63.3	49.1	72.8	69.1	57.4	49.6
11:18:00	57.4	49.0	63.4	61.0	55.1	51.0	59.1	49.6	66.6	63.6	55.3	52.1
11:19:00	67.5	54.3	76.0	72.2	62.1	58.5	72.5	54.8	82.3	77.6	60.2	57.1
11:20:00	70.0	56.0	76.3	73.6	68.5	64.0	73.9	59.3	80.0	77.3	72.5	67.5
11:21:00	66.6	49.0	77.8	70.5	62.1	51.1	70.9	51.4	80.8	75.6	65.0	54.4
11:22:00	59.9	49.9	68.0	63.7	57.7	54.0	63.9	52.5	72.9	69.6	58.7	54.8
11:23:00	64.3	52.7	72.7	68.2	61.8	55.8	67.3	53.6	75.8	72.2	63.7	57.9
11:24:00	64.9	52.0	73.6	67.8	62.2	54.8	63.9	53.8	73.0	68.1	60.7	56.4

Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 2/22/2021						NMP2 - Monday 2/22/2021					
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>
11:25:00	64.5	53.1	73.6	67.4	63.3	56.5	63.7	56.0	78.1	67.0	61.7	57.9
11:26:00	68.5	54.1	79.9	73.7	62.8	57.8	73.6	57.1	86.0	79.2	64.1	58.4
11:27:00	61.3	48.4	71.2	65.6	56.4	51.0	61.1	51.7	69.2	64.6	59.2	54.3
11:28:00	60.1	48.3	71.4	65.1	54.0	50.3	61.0	53.1	68.7	63.9	59.5	55.4
11:29:00	62.1	50.0	71.8	66.8	56.7	51.6	66.1	52.9	78.4	68.8	59.7	54.9
11:30:00	62.3	51.0	71.5	66.8	59.0	54.0	61.9	55.0	71.3	65.4	59.0	56.3
11:31:00	60.2	49.6	68.9	64.7	56.3	51.9	59.5	50.1	70.4	63.2	55.8	51.6
11:32:00	61.9	48.0	74.2	65.6	53.2	49.3	62.3	51.7	71.3	68.1	56.8	52.6
11:33:00	58.7	50.2	69.7	61.4	56.3	51.4	64.0	52.1	73.0	68.5	60.0	56.3
11:34:00	59.0	50.8	64.8	62.3	57.4	52.5	61.6	55.7	66.8	64.1	61.0	57.2
11:35:00	58.1	48.4	72.1	58.8	52.8	49.5	58.5	52.2	69.4	60.8	56.0	52.9
11:36:00	52.1	48.2	56.9	54.5	51.4	48.8	57.1	52.4	63.3	59.8	56.3	52.7
11:37:00	58.6	49.4	69.9	62.0	54.4	51.4	61.0	52.2	70.8	65.0	56.5	53.0
11:38:00	67.7	53.0	77.4	71.4	66.0	57.5	71.1	53.4	79.0	74.9	69.5	55.4
11:39:00	69.8	55.7	75.9	73.0	68.9	61.9	72.4	56.8	81.3	75.7	71.3	62.7
11:40:00	68.3	56.4	78.5	72.8	62.4	58.3	71.0	58.4	81.3	75.7	65.3	60.4
11:41:00	63.6	51.8	73.8	68.5	57.9	53.3	67.5	52.9	78.6	72.3	59.9	53.9
11:42:00	64.3	53.3	77.2	65.7	59.9	56.2	65.2	55.6	75.8	67.2	61.8	58.2
11:43:00	66.5	54.7	77.7	70.8	62.4	55.9	68.5	56.9	78.9	72.8	64.6	60.1
11:44:00	62.8	53.2	75.7	64.2	58.1	54.7	62.2	55.9	72.1	64.2	60.3	57.1
11:45:00	60.0	51.3	70.9	63.3	56.0	53.3	59.8	51.7	69.8	63.2	56.7	53.5
11:46:00	53.7	49.6	61.6	55.8	52.4	50.6	58.3	52.4	69.5	60.1	56.3	54.0
11:47:00	52.1	48.6	59.7	54.5	50.8	49.7	55.8	51.3	62.8	58.6	54.5	52.6
11:48:00	53.1	48.3	59.6	55.6	51.8	49.6	54.5	50.4	59.0	57.5	53.3	51.3
11:49:00	51.3	48.0	55.4	53.2	51.1	48.9	54.3	50.2	56.7	55.9	54.2	52.0
11:50:00	58.2	48.7	65.5	62.4	54.3	49.4	60.7	50.9	67.1	65.2	57.2	51.9
11:51:00	51.7	48.3	56.1	54.3	51.1	48.9	54.0	49.1	59.9	57.7	52.0	50.2
11:52:00	52.9	48.8	58.8	55.7	51.7	49.6	56.0	50.0	64.5	59.5	53.7	51.0
11:53:00	52.8	48.6	59.2	56.4	51.0	49.1	54.8	49.3	63.9	58.2	52.9	50.2
11:54:00	51.3	48.3	59.0	52.9	50.6	48.9	53.7	48.7	62.3	56.2	51.8	49.6
11:55:00	57.6	49.4	64.5	60.8	55.2	50.3	56.2	49.8	62.4	59.9	54.3	51.3
							60.6	51.9	68.5	65.3	57.4	53.5
							58.6	53.0	67.8	61.1	56.7	54.2
							56.5	53.6	58.7	58.3	56.2	53.8

Memo  
Jordan High School Noise Survey

Time	NMP1 - Wednesday 2/24/2021						NMP2 - Wednesday 2/24/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
07:00:00	58.1	54.2	64.4	61.6	56.7	54.9	64.5	57.0	72.6	67.8	62.2	57.6			
07:01:00	58.5	53.4	65.7	63.0	55.3	54.0	64.9	55.2	73.3	70.1	60.0	55.8			
07:02:00	58.8	53.2	67.0	63.1	55.5	53.6	64.4	55.5	73.2	69.4	60.3	56.3			
07:03:00	58.9	53.1	69.1	61.2	55.7	53.8	63.9	55.0	77.1	66.0	60.9	56.4			
07:04:00	57.2	52.8	64.1	59.8	56.3	53.5	62.9	54.7	71.9	65.7	60.8	55.4			
07:05:00	58.3	54.2	62.6	60.7	57.2	55.5	64.2	57.5	69.7	68.2	62.5	59.0			
07:06:00	59.1	53.0	63.5	62.5	57.3	53.5	63.7	55.4	70.1	67.5	62.2	57.2			
07:07:00	58.8	54.2	66.3	61.5	57.2	55.2	64.0	56.9	72.9	67.2	62.1	58.5			
07:08:00	57.3	53.7	60.7	59.7	56.8	54.3	60.3	55.9	64.9	62.6	59.6	57.2			
07:09:00	57.3	53.7	62.2	59.5	56.4	54.9	62.5	56.8	70.8	64.5	61.0	58.5			
07:10:00	58.7	53.2	65.5	61.5	57.1	54.4	63.9	56.2	72.9	68.0	60.5	57.0			
07:11:00	58.3	53.0	67.6	60.9	55.5	53.6	64.5	55.9	75.1	67.5	60.1	56.6			
07:12:00	57.2	53.0	65.4	60.1	55.1	53.7	61.3	54.6	71.6	64.8	58.1	56.0			
07:13:00	60.6	53.3	73.6	59.4	56.2	54.0	66.9	55.6	81.3	65.3	59.9	56.3			
07:14:00	64.8	54.2	77.0	67.9	56.7	54.7	70.5	55.8	83.3	73.3	60.7	56.7			
07:15:00	56.2	53.8	61.9	57.5	55.7	54.2	58.1	55.5	62.1	59.8	57.9	56.2			
07:16:00	54.8	53.0	58.8	56.2	54.7	53.6	58.5	55.8	64.8	60.7	58.0	56.3			
07:17:00	55.8	53.2	59.3	57.5	55.4	53.7	60.3	54.9	65.1	63.0	59.7	56.0			
07:18:00	54.8	53.4	57.5	55.8	54.6	53.7	57.3	54.8	62.1	58.7	57.0	55.2			
07:19:00	55.3	54.2	57.4	56.2	55.1	54.5	57.8	55.4	61.2	59.6	57.5	56.1			
07:20:00	57.5	52.3	66.5	59.8	55.3	53.3	62.5	54.9	72.3	65.9	59.1	56.5			
07:21:00	57.4	53.8	63.0	59.4	56.9	54.9	62.1	56.4	69.9	65.0	60.9	57.8			
07:22:00	60.4	53.1	69.6	62.6	59.5	55.1	65.5	55.6	77.2	67.5	63.6	58.2			
07:23:00	58.3	53.7	65.1	60.8	57.1	54.9	62.5	55.7	70.8	65.4	60.5	58.0			
07:24:00	57.4	53.1	61.5	59.7	56.7	54.6	62.2	55.6	68.8	65.4	60.9	57.9			
07:25:00	60.8	54.0	68.7	64.8	58.2	55.2	66.0	57.1	76.8	68.8	63.5	58.6			
07:26:00	60.6	53.2	68.7	65.3	57.6	54.8	63.3	55.8	72.5	67.2	60.4	57.1			
07:27:00	58.2	53.4	64.7	61.1	56.9	54.6	62.9	56.0	70.3	66.2	61.5	58.0			
07:28:00	58.7	52.6	64.8	61.8	57.7	53.8	64.8	55.7	70.7	68.4	63.3	57.2			
07:29:00	58.4	51.6	68.9	61.3	56.6	53.8	64.7	54.5	74.7	68.4	61.9	56.7			
07:30:00	57.7	52.8	65.5	61.0	56.3	53.6	62.9	55.1	73.5	67.6	58.3	55.5			
07:31:00	58.8	54.4	61.3	59.9	58.8	56.8	66.5	58.5	70.7	68.5	66.6	61.1			
07:32:00	57.7	52.9	60.8	59.9	57.5	54.1	64.8	56.3	69.1	67.3	65.2	58.5			
07:33:00	59.3	54.5	65.0	61.1	58.9	56.4	66.3	56.8	73.6	69.2	65.7	60.3			
07:34:00	59.0	53.0	64.7	60.6	58.5	55.2	66.1	55.8	74.5	68.7	64.7	59.0			
07:35:00	57.5	52.5	61.4	60.0	56.4	53.8	62.7	55.7	68.9	66.8	61.2	57.5			
07:36:00	57.6	53.9	66.7	60.7	55.7	54.4	62.9	56.6	72.9	66.6	59.7	57.9			
07:37:00	58.0	52.6	68.4	61.3	55.2	53.2	63.9	55.9	76.8	66.4	59.3	56.5			
07:38:00	58.6	53.6	65.2	61.1	57.6	54.7	64.4	56.8	72.6	67.7	62.3	57.8			
07:39:00	58.1	52.2	66.8	60.8	56.6	53.3	64.2	55.1	74.3	67.1	61.7	56.1			
07:40:00	57.5	53.0	65.1	59.7	56.0	53.9	61.8	55.9	70.9	65.0	59.1	57.1			
07:41:00	57.3	52.1	65.8	59.7	56.4	52.9	63.9	54.6	75.9	66.2	59.8	55.3			
07:42:00	58.4	51.6	64.2	61.6	57.2	52.5	64.5	54.4	71.1	68.1	63.1	55.8			
07:43:00	57.5	51.8	64.6	61.0	55.7	53.5	62.3	54.7	70.0	65.9	60.0	56.0			
07:44:00	59.5	53.1	66.4	62.7	58.1	55.2	65.4	56.0	72.2	69.3	63.7	58.8			
07:45:00	59.9	53.0	68.3	63.2	57.9	54.5	65.9	55.0	75.7	69.4	62.7	58.4			
07:46:00	55.3	51.0	62.1	58.3	53.6	52.2	60.9	53.8	70.3	64.8	57.5	54.6			

Memo  
Jordan High School Noise Survey

Time	NMP1 - Wednesday 2/24/2021						NMP2 - Wednesday 2/24/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
07:47:00	52.5	50.6	57.1	53.7	52.1	51.0	56.9	53.1	66.4	59.1	54.7	53.4			
07:48:00	52.6	49.9	57.2	53.6	52.2	51.4	57.3	52.9	65.3	59.7	55.3	53.8			
07:49:00	57.1	50.2	66.3	60.9	53.1	51.0	60.5	52.6	69.2	66.4	55.5	53.2			
07:50:00	62.6	51.7	69.4	67.3	56.2	52.7	63.4	52.9	69.8	68.8	57.6	53.6			
07:51:00	54.3	49.3	63.1	58.3	51.6	50.0	57.4	52.3	66.0	61.1	54.9	53.0			
07:52:00	52.6	49.9	56.6	54.2	52.3	50.7	55.1	51.0	59.8	57.5	54.5	51.8			
07:53:00	55.2	49.8	60.0	58.6	53.0	51.1	57.6	51.5	62.7	60.7	56.3	52.7			
07:54:00	52.4	49.2	58.8	54.7	51.5	49.7	55.6	51.1	63.3	58.0	54.5	52.0			
07:55:00	55.9	49.5	63.7	58.8	54.3	50.2	58.5	52.1	66.0	61.4	57.2	53.2			
07:56:00	54.5	50.9	62.3	57.0	52.9	51.5	59.9	52.9	69.3	62.9	57.7	54.1			
07:57:00	56.6	49.5	61.0	60.1	55.0	51.0	59.8	52.2	66.1	62.8	58.3	53.8			
07:58:00	54.6	49.2	64.2	56.0	53.4	49.6	59.8	51.8	71.5	60.8	57.9	52.6			
07:59:00	57.1	50.2	62.7	60.8	55.7	51.5	60.4	53.4	66.4	62.7	60.0	55.8			
08:00:00	52.3	48.7	57.2	54.1	51.8	50.0	56.4	51.3	63.3	59.3	55.0	52.2			
08:01:00	51.3	48.1	58.7	53.7	50.1	49.1	56.4	52.0	65.8	58.4	54.4	52.8			
08:02:00	52.7	47.5	60.9	57.2	50.1	47.9	56.4	50.5	65.6	60.5	53.3	51.1			
08:03:00	58.7	51.9	64.8	61.6	57.9	54.0	61.7	52.8	69.6	63.5	61.0	54.9			
08:04:00	53.4	48.9	58.8	55.8	52.6	50.5	57.6	52.5	64.5	60.4	56.5	54.0			
08:05:00	56.2	48.5	64.1	59.9	53.7	49.5	63.3	51.5	74.4	67.7	57.3	52.8			
08:06:00	54.8	47.8	63.8	58.1	52.5	49.1	60.8	51.0	70.5	65.3	56.6	51.9			
08:07:00	58.4	48.6	66.5	63.0	54.7	49.5	64.1	52.5	72.1	68.7	59.7	53.2			
08:08:00	55.1	49.4	61.1	58.2	53.9	51.4	59.5	53.8	65.6	62.8	57.7	54.8			
08:09:00	60.6	49.9	69.8	64.9	57.5	52.8	64.7	53.6	76.1	66.8	63.1	57.1			
08:10:00	56.3	49.6	64.1	60.3	53.3	50.4	62.0	53.7	70.4	66.5	57.3	54.4			
08:11:00	56.6	48.7	62.8	59.7	55.2	50.1	58.7	52.6	65.4	62.3	56.4	53.5			
08:12:00	56.0	48.6	65.5	59.0	53.2	49.9	58.5	51.8	69.7	60.5	56.4	53.3			
08:13:00	57.0	50.6	62.3	59.9	55.2	52.3	59.8	52.5	65.0	63.1	58.3	56.1			
08:14:00	55.5	50.3	60.0	58.7	54.3	51.1	58.6	53.5	63.1	61.2	57.9	54.6			
08:15:00	53.0	48.7	58.0	54.5	52.5	51.0	56.3	51.3	67.0	57.8	54.9	53.2			
08:16:00	56.4	50.1	66.8	57.6	55.1	52.3	58.9	52.6	70.7	58.9	56.4	53.3			
08:17:00	55.2	50.7	61.6	58.1	54.2	51.7	59.8	53.6	67.0	62.9	58.5	55.1			
08:18:00	55.5	48.8	61.7	59.1	54.1	49.9	61.1	52.8	69.5	64.9	58.5	53.6			
08:19:00	57.7	50.3	63.8	61.6	54.7	51.0	61.4	52.6	70.1	66.0	55.8	54.1			
08:20:00	53.8	48.8	61.7	57.7	50.9	49.5	57.1	51.7	65.8	61.0	53.5	52.2			
08:21:00	51.2	48.8	55.6	52.9	50.7	49.4	55.1	51.7	63.7	57.3	53.8	52.1			
08:22:00	58.3	48.9	65.4	62.6	55.2	49.8	56.6	52.2	62.3	59.9	55.2	52.8			
08:23:00	58.4	50.5	65.1	63.1	55.1	51.0	57.4	52.5	62.9	60.1	56.3	53.6			
08:24:00	59.2	53.3	65.7	62.1	58.1	55.2	59.6	53.7	65.6	62.5	59.0	55.2			
08:25:00	56.8	50.1	63.9	59.9	55.5	51.5	58.8	53.3	63.5	61.7	57.9	54.5			
08:26:00	54.5	48.3	61.9	57.1	53.2	49.5	58.0	51.9	66.4	61.1	55.3	52.7			
08:27:00	54.4	48.8	61.0	56.4	53.7	51.1	59.0	53.1	64.8	61.5	58.3	54.7			
08:28:00	57.4	51.0	64.5	62.0	54.9	51.6	61.5	54.4	70.2	64.4	59.4	56.1			
08:29:00	56.4	49.0	63.4	61.1	53.6	50.6	59.0	51.5	66.8	62.8	57.1	52.5			
08:30:00	55.4	50.5	60.1	58.4	54.4	51.4	58.2	53.1	61.4	60.4	58.0	54.6			
08:31:00	53.4	49.0	57.3	55.3	53.2	50.5	58.9	52.5	64.5	61.7	58.6	54.7			
08:32:00	52.4	49.4	55.3	53.6	52.2	50.8	55.5	51.9	62.2	57.1	54.8	52.6			
08:33:00	53.3	50.0	58.5	55.5	52.4	50.9	55.4	51.6	63.7	57.8	53.2	52.3			

Memo  
Jordan High School Noise Survey

Time	NMP1 - Wednesday 2/24/2021						NMP2 - Wednesday 2/24/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
08:34:00	53.9	50.0	61.1	56.0	53.2	50.9	55.1	50.8	61.9	58.3	52.7	51.2			
08:35:00	53.5	50.2	57.4	55.3	53.1	51.6	55.3	51.7	63.7	57.7	53.9	52.3			
08:36:00	52.4	47.0	62.6	54.7	50.3	47.9	60.7	49.6	76.2	63.2	51.7	49.9			
08:37:00	50.0	47.3	56.7	51.6	48.8	47.9	53.8	49.5	64.5	55.4	50.8	49.9			
08:38:00	58.2	48.7	69.2	62.7	52.0	50.1	66.9	50.4	78.8	71.9	54.3	51.5			
08:39:00	53.9	48.1	60.0	56.2	53.2	49.7	57.8	51.5	67.7	59.8	56.0	53.3			
08:40:00	59.0	49.4	67.1	63.0	55.9	51.2	61.2	52.5	67.7	64.8	58.7	54.2			
08:41:00	57.9	49.7	65.7	61.4	56.3	52.4	60.6	51.6	72.1	64.9	56.7	52.7			
08:42:00	58.5	50.0	63.5	62.7	56.0	50.7	60.4	51.0	66.3	64.1	58.0	52.8			
08:43:00	51.6	46.8	58.9	53.8	50.6	47.8	55.9	49.8	62.3	59.2	54.9	51.4			
08:44:00	54.8	49.9	58.0	56.7	54.6	51.7	55.9	52.3	60.2	57.9	55.5	53.3			
08:45:00	54.4	47.9	58.5	57.1	53.8	49.5	53.4	50.3	59.9	55.7	51.5	50.7			
08:46:00	55.3	49.7	63.6	57.2	53.5	52.0	52.3	50.8	54.8	53.2	52.1	51.5			
08:47:00	61.7	51.3	66.1	65.1	59.9	55.0	63.0	52.4	68.9	66.9	58.0	53.9			
08:48:00	55.3	48.9	61.7	57.7	54.5	51.4	53.7	50.3	57.3	55.3	53.5	51.7			
08:49:00	51.0	46.4	56.8	54.0	49.8	47.7	51.0	49.3	53.7	52.3	50.7	49.7			
08:50:00	50.1	44.2	57.0	53.5	48.2	45.3	50.3	48.6	52.7	51.7	50.1	48.9			
08:51:00	57.9	46.3	62.2	60.5	59.0	47.1	61.6	49.8	66.6	65.1	62.1	50.3			
08:52:00	61.5	51.9	68.4	65.3	59.2	57.1	66.0	53.4	69.1	68.2	65.9	61.7			
08:53:00	59.1	54.9	63.5	61.7	58.3	56.5	66.9	62.9	69.6	68.4	67.0	64.3			
08:54:00	56.6	46.8	62.7	61.2	53.6	47.2	63.4	51.0	69.6	68.4	53.0	51.2			
08:55:00	59.5	50.5	67.7	61.6	58.7	52.2	64.2	52.2	72.7	67.6	61.9	52.7			
08:56:00	49.3	46.8	57.3	51.3	48.1	47.1	53.5	50.5	61.3	57.0	51.6	50.8			
08:57:00	52.6	47.9	63.4	53.8	49.8	48.3	53.0	51.1	60.4	54.8	51.6	51.2			
08:58:00	55.5	50.3	60.3	58.1	55.0	51.4	62.2	50.8	69.3	66.5	60.3	52.0			
08:59:00	55.5	47.9	61.1	59.3	52.3	48.8	59.6	49.0	66.7	64.9	53.3	49.7			
09:00:00	57.5	49.9	73.0	67.6	59.6	52.4	62.7	50.5	77.4	70.5	55.4	52.0	Atlas Ops	63.4 / 65.7	Avg 08:59 & 09:15
09:01:00	57.5	55.9	69.3	66.5	61.3	57.7	61.7	52.2	69.5	65.0	59.8	55.7	Atlas Ops	62.9	Avg 08:59 & 09:15
09:02:00	57.5	53.9	75.4	65.5	60.0	56.7	59.1	52.0	69.1	61.7	55.8	53.1	Atlas Ops	63.2	Avg 08:59 & 09:15
09:03:00	57.5	52.7	70.3	67.5	58.2	54.1	58.4	51.5	65.4	62.3	55.6	52.9	Atlas Ops	62.5	Avg 08:59 & 09:15
09:04:00	66.6	53.6	74.8	71.6	61.4	56.4	67.5	52.6	75.5	73.0	61.6	55.1	Flyover		
09:05:00	57.5	50.4	66.9	62.5	59.4	54.7	58.4	50.4	69.1	61.1	55.7	52.4	Atlas Ops	59.9	Avg 08:59 & 09:15
09:06:00	57.5	54.0	74.9	68.9	59.7	55.7	59.6	51.1	68.9	64.2	55.0	52.8	Atlas Ops	64.3	Avg 08:59 & 09:15
09:07:00	61.4	53.3	70.5	65.1	58.9	55.6	60.7	53.2	66.7	64.0	59.4	54.8	Flyover		
09:08:00	56.9	50.5	62.6	59.6	56.4	52.3	57.3	49.6	66.5	61.0	54.6	51.6			
09:09:00	57.5	52.0	75.7	69.1	62.0	54.8	62.3	52.0	70.9	65.6	61.2	53.2	Atlas Ops	65.4	Avg 08:59 & 09:15
09:10:00	57.5	52.8	70.0	64.4	60.1	54.8	62.7	52.4	70.0	67.6	64.5	54.4	Atlas Ops	61.3 / 64.4	Avg 08:59 & 09:15
09:11:00	57.5	53.7	71.6	67.2	58.8	55.1	62.7	55.1	69.6	66.6	60.1	56.4	Atlas Ops	62.8 / 63.1	Avg 08:59 & 09:15
09:12:00	57.5	53.4	73.5	66.6	61.0	55.4	62.7	53.3	75.0	69.5	61.6	54.9	Atlas Ops	63.5 / 65.1	Avg 08:59 & 09:15
09:13:00	59.6	51.6	69.0	61.9	56.5	52.9	60.8	51.7	71.8	65.7	54.8	53.1			
09:14:00	59.2	53.8	64.3	61.5	58.6	55.8	62.8	51.6	68.2	65.4	62.4	57.7			
09:15:00	58.9	53.1	62.6	61.1	58.3	56.2	64.5	55.7	68.2	66.8	64.6	58.9			
09:16:00	59.1	50.0	64.8	61.2	58.9	51.9	62.6	52.6	68.4	65.8	61.5	53.9			
09:17:00	58.1	50.2	66.5	61.0	57.2	51.5	60.4	52.1	65.7	63.5	59.9	53.9			
09:18:00	58.5	50.8	65.5	61.6	56.4	53.0	63.1	52.7	72.0	67.4	58.4	55.2			
09:19:00	58.9	52.8	67.9	61.4	57.4	54.2	64.3	54.6	70.9	67.9	63.9	57.1			
09:20:00	60.9	52.6	72.6	63.5	57.2	53.9	65.1	52.6	75.8	67.8	59.7	54.3			

Memo  
Jordan High School Noise Survey

Time	NMP1 - Wednesday 2/24/2021						NMP2 - Wednesday 2/24/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
09:21:00	57.2	51.9	62.3	60.0	56.0	53.1	62.3	52.6	69.9	66.3	60.0	53.8			
09:22:00	58.8	51.8	63.5	61.6	57.9	54.2	62.1	53.2	68.4	66.3	60.3	55.0			
09:23:00	55.6	49.0	62.4	58.9	54.5	49.6	61.0	51.8	70.3	65.0	57.2	53.0			
09:24:00	56.8	49.9	60.5	59.6	56.2	51.9	59.3	52.2	65.9	61.9	58.4	53.4			
09:25:00	54.0	51.2	63.2	56.5	52.6	51.6	57.5	53.4	64.9	61.4	55.4	53.9			
09:26:00	55.2	50.7	61.9	57.8	54.1	52.0	58.0	52.0	65.9	60.9	55.9	53.5			
09:27:00	58.1	52.7	63.9	60.6	57.0	54.4	61.7	52.4	69.1	65.2	60.2	54.9			
09:28:00	52.8	50.0	56.4	53.8	52.6	50.9	52.8	50.7	57.2	54.0	52.5	51.1			
09:29:00	61.8	52.6	69.0	65.9	58.1	54.3	64.7	51.2	75.4	69.0	58.1	52.3			
09:30:00	61.1	55.1	65.9	63.9	60.6	56.7	63.2	54.0	72.1	66.6	60.9	55.6			
09:31:00	61.6	53.4	68.2	65.3	59.2	56.0	61.2	54.0	69.4	65.0	58.9	56.2			
09:32:00	62.7	55.6	69.4	65.0	61.8	58.2	63.3	53.7	71.8	67.2	60.7	56.7			
09:33:00	62.0	57.7	71.2	67.2	63.3	60.0	62.4	56.5	67.8	64.9	61.7	58.5	Atlas Ops	64.3	Avg 09:32 & 09:38
09:34:00	64.0	58.5	68.6	66.6	63.3	60.5	61.4	55.2	68.1	64.2	60.1	56.7	Atlas Ops + Flyover		Unremovable
09:35:00	62.0	55.6	71.4	67.8	63.7	58.9	62.1	54.8	70.0	64.6	60.9	56.8	Atlas Ops	65.0	Avg 09:32 & 09:38
09:36:00	63.9	56.0	70.5	66.8	63.1	58.5	60.9	56.3	66.7	63.9	59.9	57.6	Flyover		
09:37:00	62.0	56.4	72.8	67.3	64.2	58.8	62.5	54.9	73.7	68.3	61.9	57.9	Atlas Ops	65 / 64.6	Avg 09:32 & 09:38
09:38:00	61.1	55.0	65.7	63.3	60.6	57.6	61.5	54.1	69.8	64.5	60.2	56.8			
09:39:00	61.0	55.9	67.0	63.9	60.0	57.0	60.3	54.8	68.4	62.8	58.9	56.4			
09:40:00	63.9	54.7	69.4	67.7	62.6	57.6	63.0	54.0	70.2	66.6	60.1	55.6			
09:41:00	62.6	55.6	70.7	64.4	61.6	58.0	61.5	54.1	68.2	64.9	60.1	55.9			
09:42:00	63.8	53.5	71.1	68.2	60.6	55.9	59.2	52.3	66.3	63.7	55.6	53.4			
09:43:00	61.5	53.2	65.6	64.3	60.8	56.2	59.2	52.4	67.5	62.7	56.9	54.4			
09:44:00	61.6	54.9	69.3	64.6	60.1	57.6	62.2	53.7	74.1	64.6	59.4	54.6			
09:45:00	61.4	55.6	74.8	69.9	61.9	58.1	62.2	55.5	80.2	75.8	63.0	58.0	Atlas Ops	65.4 / 69.8	Avg 09:44 & 09:46
09:46:00	61.1	53.4	71.7	63.7	59.4	56.5	62.2	53.9	74.9	65.3	58.9	55.5			
09:47:00	63.0	56.1	69.9	66.6	61.7	58.2	61.3	55.0	69.7	63.7	60.0	56.9			
09:48:00	61.3	54.0	67.7	64.6	60.1	56.0	61.2	54.0	71.4	63.7	58.6	56.4			
09:49:00	62.2	54.3	66.9	65.2	61.3	57.1	59.0	54.2	65.3	61.8	57.8	55.1			
09:50:00	64.5	54.6	69.9	66.7	64.1	57.6	63.1	55.1	67.5	65.8	63.3	56.3	Flyover		
09:51:00	62.8	60.4	66.8	65.8	64.6	62.8	64.5	60.3	68.2	66.0	64.4	62.1	Atlas Ops	64.6	Avg 09:49 & 09:52
09:52:00	63.4	59.0	68.9	64.8	63.0	61.2	65.1	61.6	68.7	67.1	64.5	63.0			
09:53:00	62.8	54.7	67.1	65.1	62.6	58.7	64.5	54.4	71.2	67.9	63.7	56.9			
09:54:00	61.2	53.3	69.7	63.6	60.2	55.8	56.3	52.1	62.1	58.3	55.8	53.0			
09:55:00	64.3	53.8	73.3	68.2	61.8	56.8	58.9	52.4	68.8	61.6	57.0	54.4			
09:56:00	62.8	54.6	67.3	65.7	62.3	57.1	57.9	53.0	61.7	59.9	57.8	54.6			
09:57:00	62.5	53.1	67.4	66.1	61.8	56.1	60.5	52.2	67.9	63.8	58.8	54.5			
09:58:00	64.0	53.3	70.4	66.5	63.5	58.3	61.8	52.8	68.5	64.0	61.1	56.4			
09:59:00	63.0	54.0	70.3	66.4	61.5	56.9	61.4	52.9	70.8	64.9	58.6	54.9			
10:00:00	63.1	55.3	70.6	66.0	62.0	58.7	65.1	54.5	77.4	68.2	59.7	56.8			
10:01:00	60.9	48.4	68.1	65.4	57.5	49.8	62.6	51.2	73.3	65.8	58.1	52.6			
10:02:00	60.3	48.2	70.4	64.2	56.6	50.3	65.4	51.5	76.3	69.0	60.9	53.1			
10:03:00	57.4	48.2	64.1	61.2	55.9	51.1	61.3	51.5	70.3	65.4	58.1	52.5			
10:04:00	57.2	48.2	64.9	60.9	55.7	50.7	59.4	50.3	69.4	64.1	54.6	52.1			
10:05:00	57.0	49.9	63.7	59.9	55.9	52.4	58.3	50.8	65.9	61.8	56.6	52.6			
10:06:00	62.0	50.9	68.5	66.1	59.5	52.1	63.5	52.4	74.2	67.1	59.8	53.8			
10:07:00	53.3	47.5	60.1	55.9	52.2	49.7	57.8	51.0	63.9	61.5	55.7	52.3			



Memo  
Jordan High School Noise Survey

Time	NMP1 - Wednesday 2/24/2021						NMP2 - Wednesday 2/24/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
10:08:00	52.7	44.4	61.7	55.4	50.7	45.7	53.2	47.9	61.0	55.5	52.1	49.0			
10:09:00	53.2	45.6	62.7	56.7	50.8	48.0	52.2	47.8	58.3	54.7	51.2	48.8			
10:10:00	58.8	45.5	65.8	63.5	54.6	46.0	60.0	47.4	70.0	63.9	55.9	49.0			
10:11:00	53.4	46.6	60.6	56.7	51.5	48.9	50.4	48.1	55.0	52.2	49.7	48.7			
10:12:00	53.0	45.2	61.1	57.7	49.5	46.6	54.4	48.1	64.6	58.4	50.2	48.9			
10:13:00	57.2	44.6	70.6	57.4	50.3	46.7	53.5	47.2	61.6	57.4	50.9	48.2			
10:14:00	45.4	43.8	47.4	46.6	45.1	44.3	47.9	46.3	50.7	49.2	47.6	46.8			
10:15:00	50.2	44.2	61.2	53.3	46.3	44.7	50.5	47.7	58.3	53.0	49.3	48.1			
10:16:00	51.1	45.1	59.2	54.0	49.2	46.8	52.3	47.8	60.3	55.1	50.1	48.7			
10:17:00	52.3	45.3	59.9	56.2	49.9	46.7	55.0	47.9	64.4	58.9	50.9	49.4			
10:18:00	51.8	44.4	58.1	56.1	49.1	46.2	53.7	48.1	60.7	58.4	50.2	48.9			
10:19:00	51.9	45.5	62.6	54.0	50.4	47.0	52.2	48.0	59.7	54.4	51.0	48.8			
10:20:00	53.8	46.2	59.0	57.2	52.9	47.6	50.2	47.3	54.0	52.3	49.7	47.7			
10:21:00	54.8	47.9	65.5	57.2	51.2	49.2	52.4	49.1	59.5	53.5	51.5	50.2			
10:22:00	56.4	48.9	63.2	59.9	55.0	49.8	55.8	48.6	63.8	61.6	52.6	50.0			
10:23:00	58.0	49.4	69.1	61.3	54.3	50.8	56.8	49.4	64.9	62.0	52.1	50.2			
10:24:00	60.0	46.2	73.2	61.8	55.0	47.9	59.0	48.9	69.7	62.6	56.1	50.6			
10:25:00	56.2	45.7	63.6	60.8	52.3	46.3	57.7	48.1	63.6	61.9	52.9	48.3			
10:26:00	56.1	48.8	63.0	60.2	53.6	50.5	57.6	51.2	63.7	60.9	56.2	52.8			
10:27:00	55.7	48.8	62.5	59.3	53.9	50.0	57.6	51.4	64.1	60.3	56.6	52.6			
10:28:00	52.5	48.2	56.4	54.8	52.0	49.7	56.8	49.8	62.0	59.7	55.5	51.6			
10:29:00	54.1	49.1	58.9	56.5	53.6	50.6	56.1	49.3	63.8	59.3	54.6	50.6			
10:30:00	58.7	47.8	65.0	62.7	56.6	49.5	60.3	51.7	65.8	64.4	58.4	52.8			
10:31:00	54.9	47.9	62.3	58.8	52.3	48.8	58.1	51.3	64.8	61.4	57.0	53.3			
10:32:00	53.5	47.1	61.8	58.3	49.9	48.1	55.9	51.1	62.9	59.7	53.9	52.3			
10:33:00	55.0	46.1	64.8	59.0	49.8	46.8	57.4	48.7	67.8	60.4	53.1	49.6			
10:34:00	55.0	46.9	67.2	57.3	50.4	48.1	55.7	49.2	68.1	56.9	52.8	50.6			
10:35:00	52.4	48.0	57.3	54.5	51.6	49.2	52.7	49.0	59.8	55.0	51.4	49.9			
10:36:00	58.8	49.1	64.7	62.7	56.9	52.3	59.9	50.9	68.3	63.9	56.0	52.8			
10:37:00	53.8	47.0	63.9	55.4	51.9	48.9	54.2	48.8	62.8	56.4	52.9	49.9			
10:38:00	56.0	47.2	64.4	59.4	54.0	49.0	57.9	49.5	65.9	61.6	55.9	50.4			
10:39:00	57.1	47.6	64.2	61.8	55.1	48.3	63.0	49.7	73.7	66.8	57.7	50.8			
10:40:00	58.0	46.4	68.4	64.9	49.2	47.0	58.4	49.4	69.9	63.2	53.5	51.0			
10:41:00	55.9	46.6	67.0	60.7	50.3	47.9	59.1	49.6	70.3	63.5	53.7	50.4			
10:42:00	57.5	47.4	69.6	62.3	50.9	48.1	59.9	50.7	71.1	63.1	55.0	51.5			
10:43:00	55.8	48.7	64.6	60.1	52.4	49.5	57.5	52.7	65.6	60.9	55.0	53.6			
10:44:00	54.8	49.8	59.1	57.1	53.9	52.0	61.2	54.6	69.7	64.6	58.5	55.2			
10:45:00	52.8	46.4	63.7	61.0	53.4	47.1	60.8	50.4	69.0	64.8	57.6	52.6	Atlas Ops	56.7	Avg 10:44 & 10:46
10:46:00	48.9	45.7	57.2	50.7	48.0	46.5	53.5	48.4	62.3	55.6	52.2	49.4			
10:47:00	50.6	47.0	59.0	51.9	49.4	47.7	53.1	49.1	61.4	55.6	51.4	49.5			
10:48:00	56.3	50.9	62.2	59.1	55.4	52.2	57.5	49.2	67.7	61.0	54.3	50.3			
10:49:00	58.5	54.6	61.6	60.2	58.5	55.7	59.9	52.7	66.1	62.1	59.1	55.6			
10:50:00	59.6	52.4	65.8	62.6	58.4	55.2	61.5	53.6	69.5	66.4	58.7	55.7			
10:51:00	58.7	53.8	65.1	60.8	58.0	55.7	59.4	52.7	67.1	62.3	58.0	54.4			
10:52:00	59.7	51.2	67.2	63.0	57.4	54.8	61.0	51.6	72.4	65.1	55.7	52.6			
10:53:00	61.2	51.1	74.4	62.2	56.0	52.5	59.2	51.4	69.7	63.0	56.0	52.5			
10:54:00	62.2	51.3	72.3	67.5	60.9	53.2	59.6	51.0	68.1	63.0	57.3	52.5	Atlas Ops	63.4	Avg 10:53 & 10:55

Memo  
Jordan High School Noise Survey

Time	NMP1 - Wednesday 2/24/2021						NMP2 - Wednesday 2/24/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
10:55:00	62.9	54.1	69.2	66.1	61.9	56.7	60.1	52.6	68.9	62.3	58.0	54.5			
10:56:00	62.9	51.9	68.0	66.3	62.2	55.6	60.4	52.1	66.9	64.4	58.6	54.8			
10:57:00	61.0	53.5	67.8	64.2	59.5	55.6	59.8	53.6	67.2	62.3	58.5	55.1			
10:58:00	63.2	55.5	69.5	67.3	61.4	57.3	60.9	54.4	68.8	63.7	58.6	55.9			
10:59:00	59.4	53.0	67.6	62.3	57.9	55.2	58.7	54.5	64.3	61.5	57.1	55.2			
11:00:00	59.5	53.4	64.5	62.3	58.7	55.1	60.6	54.5	67.8	63.9	59.5	55.0			
11:01:00	60.7	60.6	68.2	66.1	63.9	62.1	59.9	58.4	65.6	63.9	61.4	59.6	Atlas Ops	64.3 / 61.9	Avg 11:00 & 11:02
11:02:00	61.7	53.1	68.8	65.5	59.5	55.6	59.0	52.1	65.6	62.4	57.0	53.6			
11:03:00	59.8	53.6	64.9	62.4	59.2	56.0	59.0	51.3	67.3	61.9	57.3	53.3			
11:04:00	62.9	53.8	69.1	66.3	61.5	56.3	61.2	53.8	69.3	63.9	60.1	55.5			
11:05:00	61.6	54.5	67.8	65.2	60.3	56.0	59.8	54.4	67.1	63.0	57.9	55.4			
11:06:00	62.4	55.5	70.1	66.0	60.3	57.3	62.1	54.2	68.0	66.2	60.4	55.9			
11:07:00	59.2	53.2	68.4	62.5	56.3	54.1	58.0	52.6	67.2	60.8	56.3	54.2			
11:08:00	58.6	53.4	72.0	66.2	59.0	55.0	58.1	52.2	80.5	68.2	56.6	53.7	Atlas Ops	62.7 / 67.6	Avg 11:07 & 11:09
11:09:00	58.0	52.3	63.6	61.1	56.6	54.2	58.2	52.2	66.7	60.7	56.4	53.8			
11:10:00	58.8	51.3	65.1	61.9	57.6	53.7	58.2	52.4	64.3	60.8	57.4	54.0			
11:11:00	60.1	51.2	66.0	63.4	58.7	55.2	62.0	52.7	71.3	65.9	59.2	54.6			
11:12:00	59.1	50.6	64.8	62.2	58.2	52.6	57.9	52.5	65.9	61.3	56.0	53.6			
11:13:00	60.9	51.8	67.4	64.7	57.4	53.3	60.2	51.7	66.5	64.3	57.5	52.6			
11:14:00	59.5	51.3	66.4	63.5	57.5	53.7	55.0	50.4	62.3	57.7	53.8	51.5			
11:15:00	60.3	52.6	66.7	63.4	59.0	55.4	59.3	51.9	68.8	61.7	58.1	53.4			
11:16:00	59.4	51.3	64.4	62.8	58.3	54.6	58.0	51.7	65.6	60.7	56.2	54.0			
11:17:00	61.8	52.9	71.7	64.1	59.6	56.0	62.4	54.2	69.2	65.7	61.0	56.4			
11:18:00	60.3	53.7	69.2	63.5	58.0	55.3	60.1	54.0	67.1	64.6	57.5	54.8			
11:19:00	60.5	54.4	65.1	63.3	59.5	56.3	62.2	54.2	68.6	65.1	60.8	55.8			
11:20:00	59.2	51.8	69.9	62.9	55.6	52.4	56.6	51.7	64.9	61.0	54.2	52.5			
11:21:00	55.9	51.0	61.7	58.6	54.6	52.4	53.8	51.0	58.9	56.2	52.9	51.8			
11:22:00	58.0	51.8	65.9	61.5	55.2	52.6	58.2	52.5	66.1	63.4	54.7	53.2			
11:23:00	58.3	51.8	66.3	62.2	55.7	52.6	60.0	52.7	66.7	64.7	57.5	54.6			
11:24:00	62.1	53.5	70.9	65.9	58.8	54.5	58.2	54.5	63.3	60.6	57.4	55.2	Atlas Ops + Flyover		Unremovable
11:25:00	59.2	52.8	68.9	61.5	57.3	54.6	57.9	53.6	62.8	60.0	57.3	54.6	Atlas Ops + Flyover		Unremovable
11:26:00	62.8	52.6	75.9	63.9	58.9	55.3	58.2	53.8	64.4	59.7	57.8	55.8			
11:27:00	58.5	48.5	69.9	62.6	51.5	49.3	58.0	50.4	66.3	62.4	54.8	51.5			
11:28:00	57.6	53.0	62.0	60.0	57.2	54.2	57.6	52.5	64.6	59.9	56.4	53.4			
11:29:00	57.9	52.4	64.0	61.1	56.7	53.8	56.8	53.0	60.8	58.5	56.6	54.7			
11:30:00	57.7	50.2	64.3	61.2	56.0	53.1	58.1	53.3	64.2	61.1	56.9	54.6			
11:31:00	60.9	52.3	71.1	63.4	58.4	53.7	60.8	53.0	68.8	63.2	59.4	55.5			
11:32:00	58.1	53.5	64.5	60.7	56.9	55.0	61.0	54.6	72.3	63.0	58.7	56.4			
11:33:00	59.4	52.7	69.8	60.8	58.7	54.7	62.0	55.2	72.7	64.4	60.7	56.3			
11:34:00	58.3	52.9	65.2	60.3	57.5	55.3	59.4	53.9	66.8	62.4	57.6	55.1			
11:35:00	58.2	52.1	63.0	61.1	57.1	53.9	58.1	52.4	63.1	60.9	56.7	53.6			
11:36:00	59.7	51.7	66.1	62.6	59.0	54.7	59.9	51.5	66.1	62.6	59.3	53.4			
11:37:00	57.7	52.9	62.6	59.7	57.0	54.0	57.2	52.7	62.1	59.0	57.0	54.5			
11:38:00	59.4	51.4	65.3	63.1	57.5	53.0	60.7	51.3	68.3	65.0	56.9	52.1			
11:39:00	59.2	51.6	64.6	62.5	58.1	53.1	58.3	51.2	64.9	62.3	55.9	51.6			
11:40:00	55.1	51.5	64.7	56.9	53.3	52.0	54.9	51.4	62.2	58.1	53.4	51.9			
11:41:00	53.4	49.7	58.4	55.7	52.4	50.7	54.8	50.4	61.0	58.3	53.3	51.4			

Memo  
 Jordan High School Noise Survey

Time	NMP1 - Wednesday 2/24/2021						NMP2 - Wednesday 2/24/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
11:42:00	54.6	50.4	59.7	57.4	53.2	51.4	55.6	50.4	60.8	59.4	53.6	51.1			
11:43:00	55.9	50.6	64.0	59.2	53.1	51.4	57.5	52.2	68.1	60.6	54.2	52.6			
11:44:00	63.2	55.1	68.5	66.2	62.1	58.6	64.3	54.8	69.5	68.2	62.0	56.9			
11:45:00	59.8	55.4	63.6	62.3	58.9	56.7	62.7	59.2	67.1	64.6	62.0	60.3			
11:46:00	62.7	57.2	65.9	64.2	62.6	60.9	64.1	60.6	67.6	66.1	63.6	61.9			
11:47:00	59.3	49.0	65.1	63.2	55.1	50.1	61.6	50.7	68.5	65.4	54.7	51.3			
11:48:00	59.0	48.3	63.2	62.1	59.2	50.8	61.8	50.1	67.7	65.4	61.1	52.4			
11:49:00	55.5	47.3	64.3	59.9	51.1	48.7	56.7	49.4	64.6	60.9	54.4	51.0			
11:50:00	53.9	48.3	61.1	57.9	50.9	49.1	56.4	51.3	63.9	60.6	53.4	52.1			
11:51:00	59.9	50.3	65.3	63.4	58.4	52.2	60.9	52.9	68.1	64.6	57.9	54.3			
11:52:00	56.1	49.8	62.9	60.5	53.1	50.6	59.7	52.7	67.2	63.6	56.3	53.5			
11:53:00	53.4	49.2	59.6	55.9	52.6	50.6	58.7	52.5	67.9	62.2	56.3	53.4			
11:54:00	59.4	50.8	66.4	63.1	57.5	51.9	61.3	53.9	70.0	65.3	58.0	54.8			
11:55:00	53.6	49.6	58.9	56.5	52.3	50.1	54.2	53.1	56.7	55.5	53.9	53.5			
11:56:00	53.8	49.6	59.1	56.5	52.8	50.8									
11:57:00	53.1	48.8	58.8	55.9	52.1	49.6									

Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 3/1/2021						NMP2 - Monday 3/1/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
07:00:00	52.3	48.6	56.5	54.3	51.8	50.0	58.7	52.0	66.4	63.8	54.4	52.4			
07:01:00	55.7	50.3	61.2	58.7	54.2	52.0	60.7	53.6	67.1	63.6	58.9	55.1			
07:02:00	57.9	50.7	64.4	61.9	54.6	52.5	61.0	54.4	66.2	64.6	59.6	54.8			
07:03:00	52.7	48.9	58.9	55.7	51.1	49.4	56.6	52.2	61.2	59.9	55.1	53.1			
07:04:00	51.8	48.7	55.2	52.7	51.7	50.0	54.7	51.8	58.3	55.7	54.5	52.5			
07:05:00	52.1	50.2	55.8	53.5	51.8	50.7	55.2	52.5	64.2	56.8	54.2	53.0			
07:06:00	53.4	49.0	57.8	57.0	51.8	49.6	55.2	51.4	58.8	57.6	54.4	51.9			
07:07:00	53.0	48.7	62.6	55.1	52.0	49.7	53.9	51.1	58.4	56.6	53.0	51.6			
07:08:00	52.7	50.9	55.4	54.4	52.4	51.4	55.5	52.3	58.8	57.3	55.0	53.7			
07:09:00	56.9	50.3	64.0	61.1	52.8	51.3	59.8	52.8	68.4	64.3	55.0	53.2			
07:10:00	53.7	50.2	56.8	55.6	53.4	51.2	58.3	54.5	64.5	61.6	56.9	55.4			
07:11:00	56.0	50.6	64.0	58.6	55.0	51.1	62.0	54.0	71.2	65.2	60.0	55.2			
07:12:00	57.5	54.6	62.9	60.2	56.6	55.4	60.0	56.0	66.5	62.8	58.5	57.0			
07:13:00	58.1	54.0	62.5	60.4	57.3	55.3	62.8	55.1	71.1	66.5	60.7	56.1			
07:14:00	58.9	53.6	65.8	62.6	56.6	54.3	62.1	55.2	69.1	65.7	59.6	56.1			
07:15:00	55.6	51.2	60.7	58.5	54.7	51.8	58.4	53.2	64.3	62.7	56.8	53.9			
07:16:00	58.7	51.2	64.0	61.7	58.2	52.0	61.9	54.0	70.3	65.3	60.5	55.2			
07:17:00	55.9	50.3	65.8	58.2	53.5	51.1	60.2	54.3	71.5	62.6	59.0	55.7			
07:18:00	56.8	51.5	63.5	61.0	54.4	52.4	63.9	55.8	73.4	68.0	58.8	56.9			
07:19:00	55.4	51.0	61.6	58.3	54.1	52.0	60.6	54.1	66.1	63.2	60.0	55.6			
07:20:00	57.0	51.3	64.2	60.9	55.6	52.2	61.1	53.8	68.7	64.8	59.3	55.2			
07:21:00	54.7	50.8	63.1	56.0	53.4	51.7	60.2	55.1	68.6	62.2	59.0	56.6			
07:22:00	54.0	50.5	58.6	56.0	53.2	51.7	58.7	53.4	65.9	60.6	57.9	55.6			
07:23:00	53.8	49.8	63.3	55.9	52.7	50.5	57.7	53.8	64.5	60.3	56.5	54.5			
07:24:00	55.3	49.6	61.2	58.8	52.9	50.2	59.3	53.5	65.6	62.1	58.2	54.2			
07:25:00	55.9	51.5	64.5	57.5	54.8	53.4	58.3	53.7	62.7	60.1	58.0	55.5			
07:26:00	60.4	54.2	72.8	62.0	56.4	55.0	60.2	55.3	66.0	62.5	59.4	56.2			
07:27:00	61.1	53.7	71.4	63.1	57.1	55.3	61.1	55.8	68.3	64.3	59.6	57.1			
07:28:00	56.8	51.7	64.5	58.6	55.9	52.8	57.7	53.3	65.4	59.5	56.6	54.1			
07:29:00	58.0	52.4	63.2	60.3	57.3	54.2	62.5	53.3	71.2	65.2	60.7	54.8			
07:30:00	56.9	50.2	63.8	59.4	55.7	52.3	63.2	53.5	71.6	66.9	61.1	57.3			
07:31:00	56.3	51.0	62.2	59.5	54.6	51.9	62.1	54.2	69.5	66.0	59.7	55.9			
07:32:00	56.7	50.8	62.4	59.4	56.1	52.8	62.8	56.2	70.8	65.8	61.0	58.9			
07:33:00	54.5	50.7	60.3	57.3	53.3	51.5	63.6	55.3	72.3	67.8	60.8	56.5			
07:34:00	55.1	51.5	61.8	57.5	54.1	52.0	63.3	55.1	72.7	67.0	61.3	56.8			
07:35:00	57.4	50.9	65.8	61.1	55.1	52.9	62.6	55.9	70.2	66.4	60.0	57.1			
07:36:00	55.8	52.2	62.6	59.0	54.2	53.0	59.9	54.4	67.7	64.9	56.3	55.2			
07:37:00	54.1	51.4	58.4	55.5	53.8	52.1	57.7	54.1	64.2	60.2	57.0	54.6			
07:38:00	56.9	51.6	61.5	60.4	55.6	52.8	58.6	53.7	63.3	61.1	57.4	54.8			
07:39:00	54.6	50.5	62.3	56.7	53.3	51.5	54.1	51.6	56.9	55.6	53.7	52.5			
07:40:00	55.4	51.2	64.7	57.7	54.0	52.0	54.9	52.1	59.0	57.1	54.2	52.9			
07:41:00	56.3	50.3	61.0	58.8	56.0	51.7	55.5	51.7	58.2	57.3	55.3	52.9			
07:42:00	61.5	52.0	72.8	65.2	56.5	52.7	58.2	52.6	67.0	60.7	56.3	53.9			
07:43:00	52.8	48.7	58.7	55.7	51.7	49.4	55.4	51.4	61.5	57.7	54.6	52.1			
07:44:00	51.9	49.8	56.9	53.7	51.0	50.2	54.0	52.0	59.5	55.3	53.4	52.5			
07:45:00	50.2	48.9	52.3	51.0	50.1	49.4	52.9	50.8	55.3	53.9	52.8	51.8			
07:46:00	52.2	49.5	55.8	54.1	51.7	50.0	54.5	51.7	59.5	56.9	53.6	52.3			

Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 3/1/2021						NMP2 - Monday 3/1/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
07:47:00	50.9	49.3	54.0	52.2	50.4	49.8	54.8	52.1	60.1	57.0	54.2	52.7			
07:48:00	55.5	49.2	64.6	58.5	52.3	50.2	56.8	51.3	64.7	60.1	53.2	51.8			
07:49:00	54.8	50.2	63.2	57.2	53.3	51.0	57.0	52.5	63.3	60.0	55.8	53.4			
07:50:00	54.7	51.0	63.4	56.8	53.4	51.5	58.1	53.6	65.1	60.0	56.8	54.8			
07:51:00	53.1	50.2	56.7	54.6	52.7	51.6	57.9	53.2	65.2	59.7	56.7	55.1			
07:52:00	53.6	50.8	58.5	55.7	52.9	51.5	58.9	53.5	69.7	61.6	56.8	54.5			
07:53:00	53.4	50.7	59.7	55.0	52.6	51.3	56.6	52.2	62.9	59.3	55.3	53.3			
07:54:00	52.0	49.5	55.0	53.6	51.5	50.3	55.1	51.8	61.1	57.5	53.9	52.3			
07:55:00	55.8	50.0	64.1	59.2	54.2	51.4	58.5	52.8	66.5	62.4	56.7	54.2			
07:56:00	62.1	50.6	71.4	67.0	58.0	52.4	61.1	52.2	68.0	65.3	59.2	53.0			
07:57:00	60.2	52.3	69.2	64.4	56.4	53.9	59.2	52.8	65.6	62.3	57.7	54.7			
07:58:00	62.5	51.9	71.3	67.0	57.3	52.8	62.5	54.3	71.6	67.0	58.0	55.1			
07:59:00	64.7	51.7	75.6	69.8	57.5	53.9	63.0	53.6	72.4	67.3	59.4	55.7			
08:00:00	63.0	50.8	73.2	68.1	55.2	52.2	64.1	53.9	74.0	69.9	57.3	55.1			
08:01:00	54.2	49.3	60.2	56.5	53.5	50.3	58.8	52.9	70.8	60.2	56.3	53.9			
08:02:00	54.6	50.2	59.8	57.3	53.0	51.2	59.0	53.2	64.6	61.7	58.4	54.8			
08:03:00	54.6	51.2	59.5	57.3	53.8	51.8	61.8	55.0	69.0	65.5	59.8	56.1			
08:04:00	54.1	51.7	57.6	55.4	54.0	52.5	58.1	55.5	64.3	59.7	57.6	56.2			
08:05:00	54.5	51.5	58.2	56.2	54.3	52.4	57.8	53.8	62.4	60.2	57.1	54.9			
08:06:00	54.3	50.4	58.7	56.6	53.8	51.3	56.5	52.7	63.5	58.7	55.7	53.4			
08:07:00	54.4	49.9	58.4	57.3	53.4	51.3	57.9	53.3	64.0	60.9	56.8	54.4			
08:08:00	51.8	49.5	54.9	53.1	51.5	50.1	56.4	52.5	62.5	58.8	55.3	53.5			
08:09:00	51.8	49.0	56.2	53.7	51.1	49.8	56.3	51.9	62.0	59.1	55.3	53.1			
08:10:00	53.5	49.7	61.8	55.6	52.5	51.0	58.4	53.1	64.0	60.9	57.5	55.0			
08:11:00	53.1	49.4	58.0	55.8	52.2	49.9	57.9	53.3	62.3	60.7	56.8	54.4			
08:12:00	52.4	48.8	56.3	54.2	52.5	49.6	57.1	51.2	61.9	60.0	56.1	52.1			
08:13:00	52.1	49.7	58.0	53.8	51.4	50.2	58.1	52.7	63.6	60.2	57.5	54.9			
08:14:00	52.8	50.2	57.4	54.2	52.5	51.0	57.2	52.8	62.8	59.3	56.6	54.6			
08:15:00	52.4	48.8	59.0	54.2	51.7	50.0	56.3	52.9	59.9	58.2	55.9	54.0			
08:16:00	51.8	49.9	55.2	53.2	51.4	50.4	56.8	53.6	61.1	58.3	56.6	54.8			
08:17:00	53.9	49.7	59.0	56.3	52.8	51.1	56.9	53.3	60.0	58.6	56.7	54.6			
08:18:00	53.3	50.0	57.4	55.6	52.7	51.0	56.5	51.8	61.6	59.0	56.0	52.7			
08:19:00	53.2	51.5	57.7	54.5	52.7	51.9	54.6	51.3	60.4	56.9	53.5	51.9			
08:20:00	57.4	51.2	69.5	59.7	54.7	52.5	54.8	51.1	58.8	56.8	54.5	52.0			
08:21:00	56.3	50.5	68.3	59.8	53.2	51.0	54.2	50.6	62.0	55.7	52.6	51.4			
08:22:00	60.7	50.3	65.2	63.8	61.0	51.2	62.5	50.9	68.2	66.1	58.9	51.4			
08:23:00	62.1	59.0	65.4	63.5	62.0	60.5	65.4	58.6	69.0	67.4	65.6	60.9			
08:24:00	62.6	59.6	64.9	63.6	62.5	61.2	65.5	59.5	69.0	67.2	65.7	62.2			
08:25:00	61.1	52.0	65.0	63.5	61.3	54.9	64.1	51.5	70.8	67.3	63.1	55.0			
08:26:00	60.3	49.0	63.8	62.7	61.0	50.3	62.0	49.5	67.7	65.9	60.7	50.5			
08:27:00	53.0	48.9	59.2	55.8	51.9	49.6	53.1	49.6	58.6	55.7	52.2	50.2			
08:28:00	53.0	46.7	61.2	56.0	50.3	47.8	52.3	49.2	57.3	54.6	51.2	49.9			
08:29:00	53.6	47.6	57.5	56.1	52.9	48.2	53.8	50.1	56.9	56.0	53.0	51.1			
08:30:00	52.8	48.4	61.2	54.6	52.0	49.1	59.5	52.3	66.1	62.2	58.9	53.9			
08:31:00	56.1	49.4	65.4	58.4	53.3	50.8	57.0	52.2	62.2	59.5	56.0	53.8			
08:32:00	56.0	49.4	69.5	62.4	56.3	50.8	58.6	52.1	72.5	67.7	61.3	54.9	Atlas Ops	59.2 / 64	Avg 08:31 & 08:34
08:33:00	56.0	48.6	64.4	63.0	58.4	51.8	58.6	50.7	71.5	68.4	64.1	56.7	Atlas Ops	59.9 / 65	Avg 08:31 & 08:34

Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 3/1/2021						NMP2 - Monday 3/1/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
08:34:00	55.9	51.2	61.1	59.5	54.3	52.1	59.8	53.9	65.5	63.4	58.4	55.0			
08:35:00	59.2	50.4	68.5	63.6	53.0	51.5	62.8	52.8	74.0	65.3	56.4	54.0			
08:36:00	60.0	52.3	66.2	62.9	59.2	53.8	63.6	54.6	70.2	66.9	62.0	57.3			
08:37:00	55.4	49.8	62.6	58.1	54.6	51.3	60.5	52.4	68.4	64.0	58.8	53.9			
08:38:00	56.9	51.6	65.8	61.0	54.6	52.2	61.8	54.3	71.1	65.7	59.5	56.3			
08:39:00	56.6	49.9	62.9	59.9	55.0	51.0	61.7	53.0	69.5	65.1	59.9	53.9			
08:40:00	52.2	49.1	57.6	54.1	51.5	50.0	56.5	52.0	63.8	59.5	55.0	53.1			
08:41:00	51.9	49.0	55.5	54.5	51.2	49.5	55.8	51.6	65.2	57.7	54.7	52.7			
08:42:00	56.2	51.1	61.4	59.1	54.7	52.2	59.5	53.4	65.9	62.7	58.2	55.0			
08:43:00	54.1	49.2	61.4	57.3	52.4	49.9	58.5	52.0	66.8	62.4	56.0	52.9			
08:44:00	53.7	50.1	60.1	55.7	52.7	50.7	57.8	52.3	65.0	60.3	56.4	53.3			
08:45:00	56.8	50.8	65.0	59.4	55.8	52.1	61.2	53.3	70.3	64.4	58.9	54.6			
08:46:00	57.2	51.0	61.6	59.8	56.9	52.2	61.2	53.5	67.5	64.5	59.8	55.0			
08:47:00	55.1	49.1	63.8	58.1	52.9	50.0	61.7	52.4	72.9	64.9	59.3	53.9			
08:48:00	55.6	49.8	60.6	58.7	54.5	51.2	61.1	52.3	66.1	65.0	59.7	54.5			
08:49:00	55.1	49.3	61.9	58.4	53.6	50.6	61.1	52.3	68.7	65.2	58.5	54.1			
08:50:00	57.3	50.6	67.4	60.9	54.3	51.4	64.0	53.7	73.4	68.4	60.6	55.1			
08:51:00	61.6	50.8	67.4	63.6	61.4	55.4	65.5	53.9	71.3	67.9	65.2	57.8			
08:52:00	60.4	51.3	65.1	62.6	60.6	53.2	62.3	54.3	68.3	65.3	61.2	57.1			
08:53:00	60.7	52.2	67.8	63.4	60.7	53.0	63.9	53.9	74.2	68.3	59.7	56.2			
08:54:00	54.0	49.4	61.6	56.0	53.2	50.6	60.5	52.3	69.6	65.0	57.1	53.7			
08:55:00	61.4	49.3	73.6	61.6	55.0	51.9	70.4	52.6	83.7	70.4	59.3	53.7			
08:56:00	55.3	48.4	65.4	60.2	51.2	49.4	64.8	51.1	76.7	69.2	55.2	51.5			
08:57:00	56.7	48.5	67.7	60.2	50.5	49.1	68.0	52.1	81.0	69.5	57.4	52.8			
08:58:00	60.2	50.5	69.2	63.9	58.0	52.3	72.1	54.7	82.2	75.2	69.2	60.1			
08:59:00	60.2	49.6	68.0	64.4	58.5	51.0	69.5	51.8	80.8	73.5	63.8	54.2			
09:00:00	57.2	48.0	70.6	55.9	50.9	49.0	62.0	51.6	75.9	60.8	53.9	52.6			
09:01:00	61.0	48.3	72.9	65.3	55.1	51.0	65.3	50.4	77.9	69.2	58.3	51.4			
09:02:00	57.3	49.6	69.7	57.7	53.8	51.0	58.8	52.9	63.9	62.0	57.7	54.2			
09:03:00	56.7	49.3	66.3	60.3	54.6	51.0	65.1	52.2	72.9	69.5	62.2	55.7			
09:04:00	59.2	50.7	70.4	60.8	54.9	52.7	65.1	53.6	76.7	69.0	58.6	55.1			
09:05:00	54.1	48.3	62.1	57.5	51.9	49.2	59.5	50.3	66.8	64.3	55.4	51.1			
09:06:00	50.8	48.1	55.9	52.7	50.3	48.9	56.6	49.8	65.8	60.5	53.5	50.6			
09:07:00	53.1	48.6	59.7	56.1	51.5	49.4	59.0	52.2	66.0	63.3	55.8	53.4			
09:08:00	59.0	49.0	69.4	62.5	55.3	50.2	64.9	53.2	77.1	68.5	59.7	55.5			
09:09:00	54.2	49.5	61.0	57.1	53.1	51.1	59.0	53.3	66.6	61.5	57.8	55.8			
09:10:00	56.6	48.6	68.6	58.5	52.2	49.7	63.5	52.4	74.4	66.7	60.5	54.2			
09:11:00	55.4	48.9	66.7	57.4	51.5	49.5	62.2	51.6	73.5	66.7	56.3	53.4			
09:12:00	58.7	50.3	67.6	62.9	55.1	52.1	64.1	52.3	73.5	67.5	61.3	55.7			
09:13:00	59.2	50.0	68.9	63.5	55.6	51.4	64.5	53.2	74.0	69.0	59.7	54.5			
09:14:00	61.2	49.7	70.5	66.1	56.0	50.9	66.4	53.1	76.5	70.9	61.3	54.8			
09:15:00	56.4	49.1	66.1	60.2	52.4	49.8	63.0	52.8	73.0	67.6	57.2	53.9			
09:16:00	58.2	52.1	64.8	60.9	57.2	53.3	58.9	53.0	65.2	61.3	57.9	54.5			
09:17:00	52.9	49.6	59.8	55.6	51.5	49.9	55.5	51.6	60.6	57.8	54.5	52.3			
09:18:00	58.5	52.2	69.3	60.3	55.6	52.9	63.8	52.1	77.2	65.6	57.7	53.0			
09:19:00	65.8	53.5	73.8	70.2	63.4	57.6	64.4	56.0	72.3	67.2	63.2	58.5	Atlas Ops + Flyover		Unremovable
09:20:00	64.0	53.0	76.4	68.6	58.9	56.2	58.4	52.7	64.7	61.8	56.9	53.7			

Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 3/1/2021						NMP2 - Monday 3/1/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
09:21:00	62.4	52.8	71.6	67.9	57.4	54.7	57.4	52.5	63.2	60.3	56.5	53.3			
09:22:00	58.5	53.4	65.3	61.2	57.0	54.2	65.7	53.2	78.7	69.7	59.6	55.8			
09:23:00	60.5	55.1	70.3	64.4	57.9	56.0	63.1	54.8	73.6	65.9	59.7	56.3			
09:24:00	58.5	48.3	66.5	62.1	56.8	51.1	65.9	52.8	74.4	69.9	61.8	55.9			
09:25:00	56.9	48.3	69.0	58.4	53.6	49.4	63.2	50.2	76.5	66.1	55.4	51.6			
09:26:00	56.2	53.2	62.1	60.8	58.3	54.8	63.1	51.2	71.7	69.3	60.4	52.7	Atlas Ops	58.4 / 64.8	Avg 09:25 & 09:27
09:27:00	55.4	50.1	61.6	58.1	54.5	51.2	62.9	51.8	69.0	66.3	61.6	57.5			
09:28:00	56.7	50.9	62.5	60.3	55.4	52.2	64.2	52.9	72.6	68.3	60.9	53.9			
09:29:00	56.1	48.1	63.7	59.2	54.7	50.0	64.7	53.0	72.2	68.6	62.6	56.2			
09:30:00	55.5	49.3	62.8	58.7	53.8	50.5	64.5	51.5	72.7	69.0	61.2	52.6			
09:31:00	56.3	50.7	64.4	58.0	55.4	53.4	60.6	54.5	70.5	63.4	58.3	55.7			
09:32:00	60.2	49.0	73.8	59.9	54.3	50.7	65.6	52.1	78.4	68.2	60.6	54.0			
09:33:00	56.9	50.8	62.6	59.3	56.0	53.3	61.2	52.8	69.4	64.1	60.2	56.6			
09:34:00	54.1	48.2	60.9	56.9	52.8	49.9	59.2	52.1	66.4	61.8	58.2	54.1			
09:35:00	56.0	47.3	63.5	60.0	52.1	49.0	61.9	51.1	69.4	65.8	60.0	53.3			
09:36:00	55.5	50.5	64.5	57.8	54.0	52.4	59.3	52.3	69.8	61.8	57.7	54.5			
09:37:00	58.0	50.2	68.9	61.0	54.4	51.6	63.0	55.1	75.1	64.8	59.1	56.3			
09:38:00	53.9	49.8	59.7	56.5	52.7	51.3	57.7	53.0	61.8	60.2	56.9	54.6			
09:39:00	57.7	50.1	69.9	59.7	54.0	50.7	62.9	52.2	74.0	67.0	58.8	54.4			
09:40:00	55.0	49.4	60.1	57.7	54.2	51.3	60.4	52.9	67.6	63.6	58.9	55.6			
09:41:00	58.4	50.5	66.0	60.6	57.6	53.6	63.4	53.3	70.7	66.0	62.1	58.8			
09:42:00	55.7	49.3	64.0	58.3	54.1	51.1	59.3	54.2	67.0	63.4	57.0	55.4			
09:43:00	56.2	51.0	61.4	58.2	55.7	52.6	59.3	52.4	67.2	63.4	57.1	54.2			
09:44:00	55.8	48.3	68.3	59.5	51.6	49.1	55.4	51.1	60.5	58.2	54.7	52.3			
09:45:00	53.6	47.6	62.2	56.9	51.4	48.5	57.5	51.6	66.0	60.9	55.7	52.7			
09:46:00	51.4	45.8	62.3	53.3	48.5	46.7	57.3	49.9	67.4	60.3	52.9	50.7			
09:47:00	54.3	44.3	66.9	58.0	47.3	45.2	52.8	47.8	60.6	55.8	51.0	48.4			
09:48:00	50.1	44.6	56.8	53.0	48.7	45.2	51.6	48.6	55.7	53.9	50.9	49.2			
09:49:00	50.8	46.1	54.3	53.2	50.0	47.4	52.7	48.2	62.1	54.5	51.4	49.2			
09:50:00	51.4	44.5	58.7	55.0	48.3	45.2	52.4	48.4	56.0	54.4	52.3	48.8			
09:51:00	47.4	45.1	54.5	48.9	46.7	45.5	52.9	48.3	58.2	55.0	52.3	49.5			
09:52:00	51.0	44.7	57.4	55.3	48.7	45.1	55.2	48.7	61.0	58.0	54.5	50.1			
09:53:00	49.0	44.3	57.5	50.8	47.4	44.6	54.0	49.6	60.3	57.3	52.4	50.0			
09:54:00	47.0	44.7	54.1	48.7	46.0	45.3	52.3	48.5	63.2	53.4	50.0	48.9			
09:55:00	47.1	44.6	55.0	48.3	46.0	44.8	49.3	48.4	52.3	50.1	49.1	48.6			
09:56:00	47.6	45.4	49.7	48.6	47.5	46.6	51.1	48.9	57.2	53.1	50.2	49.2			
09:57:00	46.4	44.7	47.6	47.3	46.4	45.3	50.8	49.0	62.0	50.7	49.6	49.3			
09:58:00	45.5	44.4	47.1	46.2	45.5	44.8	48.9	47.8	49.6	49.4	49.0	48.1			
09:59:00	45.4	43.7	47.6	46.3	45.5	44.2	49.0	47.5	54.0	50.1	48.5	47.7			
10:00:00	46.3	44.0	49.4	47.5	46.1	45.0	50.4	47.9	58.1	52.7	49.2	48.2			
10:01:00	45.8	44.3	48.1	47.2	45.4	44.8	50.6	47.7	59.4	52.4	48.5	48.0			
10:02:00	46.5	44.6	48.5	47.6	46.3	45.1	49.2	47.8	51.7	50.0	49.2	48.4			
10:03:00	45.8	44.7	47.9	46.8	45.6	44.9	50.4	48.2	56.8	54.1	48.8	48.4			
10:04:00	52.7	46.1	61.7	56.3	49.1	47.5	53.4	48.6	58.8	56.0	52.8	49.2			
10:05:00	49.5	45.9	54.9	52.2	47.8	46.5	55.3	48.8	64.6	58.7	50.9	49.5			
10:06:00	53.4	47.6	60.6	56.1	52.3	48.7	53.8	50.8	57.1	55.7	53.8	51.3			
10:07:00	47.8	46.4	53.1	48.4	47.5	46.8	51.1	50.1	52.0	51.5	51.1	50.6			

Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 3/1/2021						NMP2 - Monday 3/1/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
10:08:00	48.9	46.9	51.0	50.5	48.5	47.4	51.4	50.1	54.1	53.0	50.9	50.5			
10:09:00	52.7	49.1	57.2	54.3	52.3	50.2	55.3	51.3	61.5	58.5	53.6	52.3			
10:10:00	49.7	46.6	52.8	51.8	49.2	47.1	52.6	49.7	56.7	55.1	51.8	50.2			
10:11:00	58.4	49.7	67.1	62.1	55.0	50.5	60.2	51.3	65.8	63.8	58.3	52.8			
10:12:00	50.5	46.1	59.1	53.1	49.1	46.6	53.5	49.7	60.5	55.4	52.6	50.8			
10:13:00	49.5	46.9	57.6	50.8	48.3	47.4	54.2	50.1	60.8	57.4	52.7	50.7			
10:14:00	49.1	46.9	52.1	50.6	48.8	47.7	56.8	51.1	65.2	59.5	55.3	52.7			
10:15:00	56.7	47.6	64.1	60.1	53.9	48.9	57.5	52.5	62.1	60.5	56.2	53.4			
10:16:00	49.4	46.0	56.6	53.0	47.7	46.7	54.6	50.2	61.9	57.6	53.4	51.2			
10:17:00	54.9	47.6	64.7	57.0	53.0	49.6	59.7	51.5	68.6	62.5	57.5	54.1			
10:18:00	52.6	46.6	63.0	54.1	50.8	48.0	56.6	50.6	62.5	59.7	55.7	52.9			
10:19:00	51.7	46.4	59.1	54.6	49.4	47.3	58.0	50.7	64.8	62.1	55.8	52.7			
10:20:00	50.6	47.5	54.6	52.7	49.9	48.4	55.5	51.6	61.4	57.6	54.8	52.8			
10:21:00	60.1	47.6	69.8	63.9	57.8	50.5	62.9	53.0	74.6	66.1	58.4	54.5			
10:22:00	52.1	47.8	58.0	54.4	51.1	49.5	58.4	52.5	65.0	61.2	57.3	54.3			
10:23:00	51.5	46.9	60.8	53.9	49.4	47.6	56.3	51.4	61.2	58.9	55.4	52.5			
10:24:00	54.6	47.2	58.6	57.5	54.0	48.5	57.3	51.1	60.6	59.6	57.2	53.4			
10:25:00	48.7	45.4	52.5	51.1	48.3	46.4	53.3	49.3	59.6	55.9	52.1	50.3			
10:26:00	51.8	48.2	58.7	54.2	50.9	49.1	56.4	52.0	66.4	57.9	54.7	52.9			
10:27:00	48.8	46.3	52.6	50.8	48.1	47.0	55.3	51.2	64.0	57.2	54.5	52.3			
10:28:00	51.6	46.8	56.0	54.1	50.9	48.7	55.3	51.1	59.2	57.3	54.6	52.5			
10:29:00	52.6	47.1	60.6	56.9	49.4	47.7	55.5	50.0	63.1	59.6	52.8	50.7			
10:30:00	46.0	44.6	49.0	47.1	45.8	45.0	50.3	48.6	54.2	52.5	49.5	48.9			
10:31:00	51.4	45.5	57.6	55.2	48.7	45.9	54.2	48.8	61.1	56.4	53.1	49.4			
10:32:00	50.7	46.1	57.2	53.9	49.0	46.9	54.1	48.8	60.5	56.7	53.3	49.4			
10:33:00	47.8	45.5	52.4	48.9	47.6	46.5	50.9	48.0	57.6	52.1	50.5	48.7			
10:34:00	52.0	46.9	59.7	54.7	49.7	47.6	55.0	50.7	61.1	58.1	53.4	51.5			
10:35:00	55.7	46.1	64.4	61.2	47.2	46.4	59.2	48.9	69.5	65.3	51.4	49.3			
10:36:00	61.0	57.3	64.4	62.3	61.0	59.4	63.4	56.7	67.9	66.0	62.8	59.0			
10:37:00	62.2	56.7	65.0	63.8	62.2	59.5	65.1	57.4	70.4	67.6	64.9	59.5			
10:38:00	62.7	59.8	65.3	64.0	62.6	61.0	64.6	57.4	70.3	67.5	64.1	59.3			
10:39:00	62.5	52.1	64.8	64.2	63.1	54.0	63.5	50.7	68.8	66.6	62.9	52.5			
10:40:00	55.5	48.9	63.3	58.5	54.2	50.8	55.6	48.9	65.6	59.4	52.4	50.4			
10:41:00	62.3	50.4	68.8	66.5	59.0	52.8	64.3	51.5	72.7	68.4	60.9	54.2	Atlas Ops + Flyover		
10:42:00	62.8	47.9	75.5	64.7	54.7	49.8	59.4	50.0	68.2	64.5	54.2	51.0			
10:43:00	56.5	47.7	67.3	60.8	51.4	48.7	57.9	48.9	69.8	61.9	51.7	49.9			
10:44:00	65.2	52.9	74.2	69.5	60.8	56.1	63.0	53.5	68.7	66.1	62.0	57.3			
10:45:00	60.2	47.5	71.2	63.1	58.1	51.3	61.8	50.8	73.3	63.3	59.9	52.4			
10:46:00	62.4	58.7	65.2	63.8	62.4	60.5	64.2	58.1	67.5	66.3	64.2	59.8			
10:47:00	63.0	60.2	65.4	64.1	63.0	61.6	64.9	58.3	68.9	67.3	64.5	61.0			
10:48:00	61.3	51.0	64.8	63.6	61.6	55.2	64.0	53.1	68.5	66.8	63.7	55.9			
10:49:00	58.8	50.4	63.9	62.4	56.4	51.4	60.1	52.2	65.5	63.5	57.7	53.4			
10:50:00	60.6	52.3	64.9	63.3	60.4	54.3	60.3	51.6	66.0	64.4	58.7	53.7			
10:51:00	60.0	52.9	64.7	63.0	58.0	54.2	62.5	50.4	69.1	66.1	59.6	52.3			
10:52:00	53.4	48.6	62.0	55.6	52.4	50.0	55.5	51.0	61.5	57.8	55.0	52.7			
10:53:00	59.2	49.8	69.2	63.2	53.8	50.7	61.3	52.3	71.1	65.6	57.0	53.8			
10:54:00	60.4	48.8	71.4	63.0	55.8	51.3	64.4	51.8	77.2	66.6	57.5	53.7			



Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 3/1/2021						NMP2 - Monday 3/1/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
10:55:00	56.6	49.8	63.7	59.9	54.4	51.3	59.9	50.6	68.3	64.3	57.1	52.3			
10:56:00	58.8	50.3	64.5	62.1	57.4	51.9	62.0	51.7	69.3	65.5	60.5	53.7			
10:57:00	57.6	48.9	67.5	60.1	55.6	51.0	59.7	50.7	65.6	63.0	58.4	53.4			
10:58:00	56.8	49.6	65.4	60.4	54.2	51.1	59.7	50.0	69.7	64.0	56.5	52.4			
10:59:00	57.4	50.2	63.9	60.2	56.3	52.8	60.7	52.7	67.8	63.7	59.6	55.3			
11:00:00	56.3	49.9	60.7	58.8	55.7	52.1	60.3	52.6	66.0	63.9	58.8	54.9			
11:01:00	56.7	49.7	63.2	59.4	55.7	52.2	61.1	53.2	67.9	64.2	59.4	55.5			
11:02:00	49.9	46.7	56.2	51.8	49.1	47.4	52.3	48.4	58.9	55.2	51.1	48.8			
11:03:00	51.7	47.6	59.7	54.8	49.5	48.3	52.9	49.0	60.7	55.6	51.7	49.6			
11:04:00	58.2	47.8	64.6	62.3	55.5	49.1	61.1	50.6	68.2	65.1	58.7	51.8			
11:05:00	61.0	51.0	65.6	63.7	60.8	54.7	61.5	52.7	66.1	63.9	61.6	55.8			
11:06:00	61.0	52.2	65.6	63.7	61.5	54.1	62.7	52.7	67.6	65.9	60.9	56.0			
11:07:00	55.2	50.5	64.0	57.4	53.7	51.4	58.7	53.0	66.0	61.9	57.0	54.6			
11:08:00	58.5	51.0	65.2	61.8	56.5	53.0	61.3	53.2	70.1	64.1	59.8	55.7			
11:09:00	55.9	49.9	63.8	58.6	54.3	51.8	61.8	53.8	72.8	65.0	59.3	55.5			
11:10:00	57.2	50.6	61.9	60.3	56.6	51.4	61.4	52.6	68.2	64.9	60.4	53.8			
11:11:00	54.4	47.5	63.0	57.0	53.3	50.1	58.0	51.8	66.3	61.0	56.1	53.2			
11:12:00	53.7	48.7	58.9	56.2	53.1	50.3	58.4	49.8	63.7	61.6	57.2	53.0			
11:13:00	52.4	47.6	57.8	54.9	51.5	49.4	57.8	49.9	64.0	61.4	55.6	52.6			
11:14:00	55.1	50.0	60.1	57.7	54.3	51.5	59.0	51.8	65.8	62.7	57.4	53.8			
11:15:00	53.1	48.0	59.3	56.1	52.0	49.3	57.3	49.3	63.9	60.7	55.8	51.5			
11:16:00	55.8	48.7	64.0	58.8	54.3	51.0	59.9	51.8	67.3	63.9	57.8	53.5			
11:17:00	54.2	49.5	62.7	56.1	53.2	51.4	57.6	50.3	65.1	60.8	56.1	53.2			
11:18:00	54.3	49.4	61.8	57.2	52.8	50.6	58.5	51.0	66.5	62.5	55.4	52.4			
11:19:00	53.8	47.4	60.3	57.0	52.7	48.6	57.3	49.5	63.3	60.8	55.8	50.6			
11:20:00	51.4	47.7	60.8	54.5	49.3	48.1	52.5	48.1	61.3	55.9	50.1	48.9			
11:21:00	52.6	47.5	59.9	56.1	50.0	47.7	52.8	48.9	57.7	55.6	52.1	49.5			
11:22:00	55.6	47.6	62.7	60.4	52.4	48.4	57.6	51.0	63.8	61.7	55.4	51.9			
11:23:00	51.7	47.2	62.1	53.7	50.6	48.1	53.7	49.3	58.3	55.8	53.4	50.8			
11:24:00	52.6	46.0	62.1	54.3	51.2	48.5	53.1	48.8	58.0	55.2	52.5	50.4			
11:25:00	50.6	45.0	58.6	54.9	48.0	45.6	51.4	47.2	58.1	54.8	49.3	47.6			
11:26:00	54.7	48.1	63.3	60.4	51.3	49.2	55.4	50.0	66.2	54.4	51.7	50.7			
11:27:00	61.7	56.0	65.2	63.7	61.5	58.9	66.2	61.2	68.4	67.5	66.1	64.5			
11:28:00	60.9	57.4	64.1	62.6	60.6	59.0	65.1	59.7	68.4	66.8	65.0	62.3			
11:29:00	60.4	55.7	67.5	63.4	60.9	59.3	65.0	59.0	69.5	67.0	65.2	62.4	Atlas Ops	61.8 / 65.3	Avg 11:28 & 11:30
11:30:00	59.8	51.8	67.0	62.4	58.7	53.2	65.0	50.9	69.9	68.5	65.1	52.8			
11:31:00	58.1	49.4	63.3	61.5	56.4	50.9	61.2	48.7	67.7	65.9	55.7	50.2			
11:32:00	58.4	50.5	67.9	62.8	54.8	52.0	59.6	52.4	69.0	63.5	56.3	53.6			
11:33:00	57.9	50.6	64.7	61.5	56.2	52.6	61.0	51.9	68.2	64.7	58.5	54.8			
11:34:00	60.2	52.6	67.7	63.4	59.0	53.8	61.8	54.3	68.5	64.4	61.2	55.6			
11:35:00	58.0	51.1	65.2	61.9	55.9	53.0	58.6	52.9	64.0	61.4	57.6	54.2			
11:36:00	52.7	48.6	61.3	57.0	49.7	48.9	56.2	49.3	65.8	61.4	50.9	49.7			
11:37:00	53.5	47.1	60.3	56.7	52.3	48.3	55.8	48.2	65.3	59.4	53.4	49.2			
11:38:00	59.9	49.4	65.2	62.6	59.3	54.4	61.9	52.3	67.1	65.5	60.2	56.3			
11:39:00	58.1	49.4	68.0	60.9	56.2	52.6	60.0	50.8	69.7	63.8	57.3	53.9			
11:40:00	57.0	50.0	61.7	59.8	56.6	52.1	60.0	51.6	66.9	62.9	59.3	54.6			
11:41:00	58.0	50.3	64.7	62.6	54.8	51.5	61.1	51.0	69.8	66.7	55.5	52.4			

Memo  
Jordan High School Noise Survey

Time	NMP1 - Monday 3/1/2021						NMP2 - Monday 3/1/2021						Ambient Data Corrections (Atlas Event Removals)		
	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Event Attribution	Original Leq	Replacement
11:42:00	63.2	53.1	69.4	68.0	60.3	55.7	65.1	53.3	72.0	71.1	59.0	55.8			
11:43:00	62.3	58.0	65.7	63.8	62.0	60.4	64.9	55.6	68.0	66.8	64.7	62.0			
11:44:00	60.4	51.8	65.0	62.6	60.9	54.0	63.3	53.1	68.0	65.9	63.4	55.3			
11:45:00	52.5	48.2	58.2	55.0	51.6	49.1	51.1	49.0	55.7	52.8	50.6	49.5			
11:46:00	50.9	48.1	57.4	52.5	50.3	48.6	51.2	48.8	55.2	52.8	50.8	49.4			
11:47:00	54.7	48.4	61.3	57.9	53.3	49.0	54.2	49.5	59.4	57.1	52.6	50.1			
11:48:00	58.1	49.3	64.6	62.7	53.3	50.3	58.3	49.7	67.4	63.2	51.6	50.1			
11:49:00	56.6	51.2	66.2	64.1	61.6	56.2	56.8	52.6	68.1	66.9	65.4	58.6	Atlas Ops	61.7 / 65	Avg 11:48 & 11:50
11:50:00	54.1	48.4	65.5	55.6	52.4	49.3	54.6	49.7	63.1	57.1	53.1	51.3			
11:51:00	52.8	47.4	59.7	55.5	51.8	48.5	53.7	49.2	58.5	56.1	53.2	50.7			
11:52:00	55.2	48.2	63.8	58.4	53.2	49.3	58.2	50.1	69.1	60.5	55.3	51.4			
11:53:00	57.7	48.8	66.0	60.7	56.0	52.4	60.8	51.1	69.0	64.2	58.9	53.6			
11:54:00	53.7	47.3	64.7	56.1	51.3	48.7	55.7	49.3	65.5	59.6	53.3	50.5			
11:55:00	53.9	48.5	63.3	57.0	52.0	50.4	58.9	50.3	68.0	62.9	55.2	51.6			
11:56:00							58.9	50.5	67.9	62.7	55.7	52.1			
11:57:00							59.8	51.7	66.7	63.2	58.1	55.7			
11:58:00							60.7	50.5	68.2	63.6	58.7	52.2			

