



Arpeggio Acoustic Consulting, LLC
1947 Aspen Dr. NE
Atlanta, GA 30345
(404) 277-6528 (DIRECT)
(404) 417-0100
(404) 806-6104 (FAX)

February 20, 2018

Ms. Tui Munday
Senior Planner
Miami Beach Planning Department
1700 Convention Center Drive
Miami Beach, Florida 33139

Re: 1236 Ocean Drive 2/14/18 Site Visit Report

Dear Ms. Munday:

We have completed our study of the sound system and associated emissions at Il Giardino at 1236 Ocean Drive and offer this summary report.

INTRODUCTION

I visited the site on the afternoon and evening of Wednesday, February 14, 2018. During my afternoon visit, which occurred between approximately 1:30 pm and approximately 2:30 pm, I inspected the installed sound system. During my evening visit, which occurred from approximately 7:00 pm to approximately 8:00 pm, I performed sound level measurements at various locations on the property and in the immediate vicinity.

Sound level measurements were made with a system consisting of a Larson-Davis Model 824 Type 1 sound level meter and real time analyzer (SN 1771) with a Larson-Davis Model PRM 902 preamplifier (SN 2276) and a Larson-Davis Model 2560 ½" random incidence microphone (SN 3249) fitted with a windscreen. The equipment was mounted on a tripod at a height of approximately 4' (the approximate height of a seated patron's ear). The system was calibrated with a Larson-Davis Model CAL 250 acoustic calibrator (SN 4096) before the measurement period. At each of four locations, broadband and octave-band sound pressure levels were logged continuously every second using fast meter response for either five or ten minutes. Using this data allowed for the determination of the equivalent sound level (L_{eq}) corresponding to each period where the L_{eq} is defined as the constant sound level that would contain the same sound energy as the actual time-varying sound level. L_{eq} can be thought of as the "average" sound level over a given period of time. Data was converted using proprietary Larson-Davis software and was analyzed using Microsoft Excel 2013.

The temperature during the measurement session was approximately 79°F, relative humidity was approximately 69%, and there was no precipitation or notable wind.

SOUND SYSTEM INVENTORY

During my afternoon visit, I was shown the sound system which consisted of a locked cabinet near the restaurant office and two loudspeakers on stands.

Figure 1 shows the cabinet both closed and opened. Within this cabinet was an Electro-Voice DC-One processor, a Crest CA9 power amplifier, and an Apogee SA-600 power amplifier.



Figure 1 – Audio Cabinet at Il Giardino

The equipment in this cabinet powered two east-facing Electro-Voice VFR89i loudspeakers, shown in Figure 2. These speakers were the ones that were in use and reproducing Latin music played on an iPhone during my evening visit. According to personnel on site, when a live performer is scheduled, they routinely use their own mixer and plug directly into these speakers. No live musicians performed during my visit.



Figure 2 – Electro-Voice VFR89i Loudspeakers in Use at Il Giardino

Finally, the restaurant had two Electro-Voice SB122 subwoofers that are apparently not used, according to personnel on site. Those are shown in storage in Figure 3.



Figure 3 – Electro-Voice SB122 Subwoofers at Il Giardino

SOUND LEVEL MEASUREMENTS

The plan and aerial photograph in Figure 4 show the four measurement locations during our evening survey.

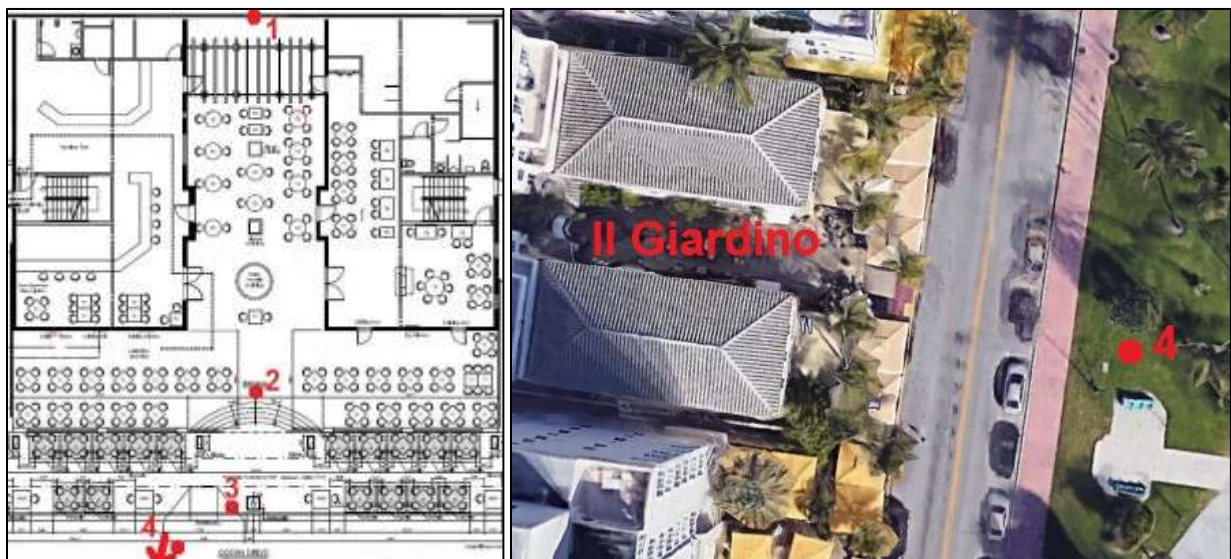


Figure 4 – Measurement Locations

Table 2 shows the equivalent sound levels measured at each location during our survey along with the measurement duration at each location.

Table 1 –Equivalent Sound Levels Measured at Il Giardino

Location	Duration, mm:ss	L _{eq} , dBA	L _{eq} , dBC
1	5:01	62.1	70.4
2	10:05	70.9	77.1
3	5:01	69.7	75.8
4	5:01	63.7	75.2

Sound levels at locations 1 and 2 were determined primarily by music and patrons at Il Giardino (with some vehicle traffic audible at location 2) while sound levels at location 3 (on the sidewalk) were influenced more so by vehicle traffic on Ocean Drive and pedestrians on the sidewalk. While music from Il Giardino was faintly audible at location 4 (across Ocean Drive) it was about equal to that from the restaurant at the Leslie Hotel at 1244 Ocean Drive. Both of these sources were minimal, however, compared to music emanating from the Sugar Factory at 1144 Ocean Drive and vehicle traffic along Ocean Drive. At no point during my visit did music at Il Giardino appear to cause difficulties in patron conversations.

Graphs showing the temporal variation of sound level at each location are attached at the end of this report.

CONCLUSIONS

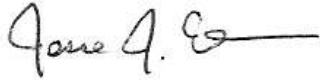
The primary purpose of my visit to Il Giardino was to ascertain whether the restaurant was complying with sound requirements in the Modified Conditional Use Permit issued by the City of Miami Beach on January 19, 2017. Those requirements, along with my applicable comments, are outlined below.

- Recorded amplified music was played at a volume that would be considered ambient background and *not* entertainment levels. At no point during my visit was music being played above a conversational level such that patrons would need to speak with raised voices. Live music was not encountered during my visit.
- The sound system maximum volume was limited to the volume which is permitted by the City of Miami Beach noise ordinance *assuming* the system is turned down or not operated after 11 pm. Although it was noticeably lower in volume than many other noise sources in the area (e.g., Sugar Factory approximately 300' to the south), it was technically still faintly audible on occasion across Ocean Drive, 100' away.
- Although not experienced during my visit, it was reported that visiting musicians often bring their own mixers to power the existing Electro-Voice VFR89i loudspeakers.
- The sound system processor and amplifiers are locked in a cabinet and only accessible to restaurant personnel.
- In most respects, the sound system and its operation complied with the specification produced by The Audio Bug in April 2011. Where deviations occur, they relate to the number of speakers. The specification called for ten loudspeakers whereas only two were in operation during my visit.
- Average sound levels were below 80 dBC in all four locations where measurements were made.

The conclusions contained herein are based on observations and measurements made during my visit to the site and may or may not be representative of conditions at other times.

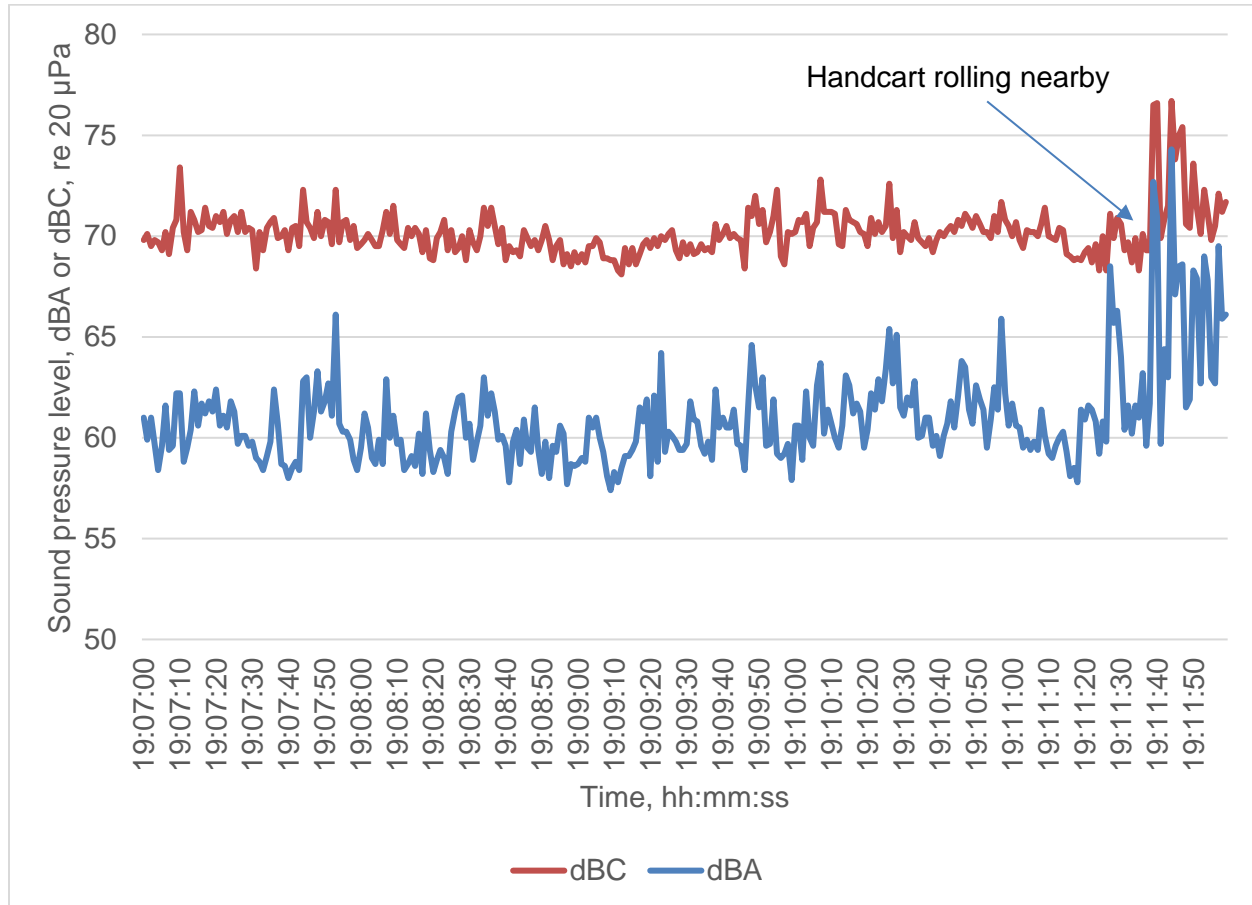
Please feel free to contact me at 404-277-6528 or jehnert@arpeggiollc.com if you have any questions or need additional information.

Sincerely,

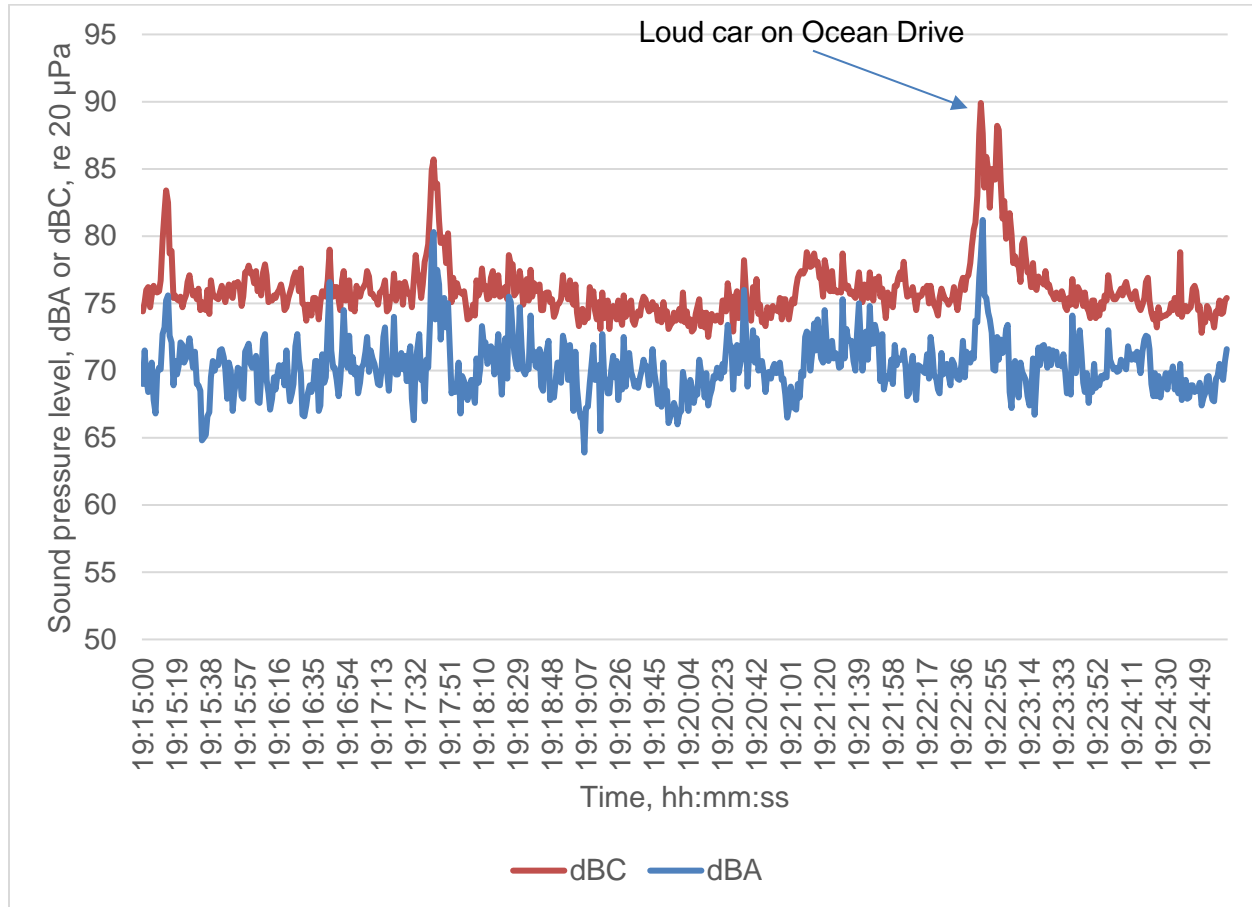
A handwritten signature in black ink, appearing to read "Jesse J. Ehnert", followed by a horizontal line.

Jesse J. Ehnert, INCE Bd. Cert.
Arpeggio Acoustic Consulting, LLC

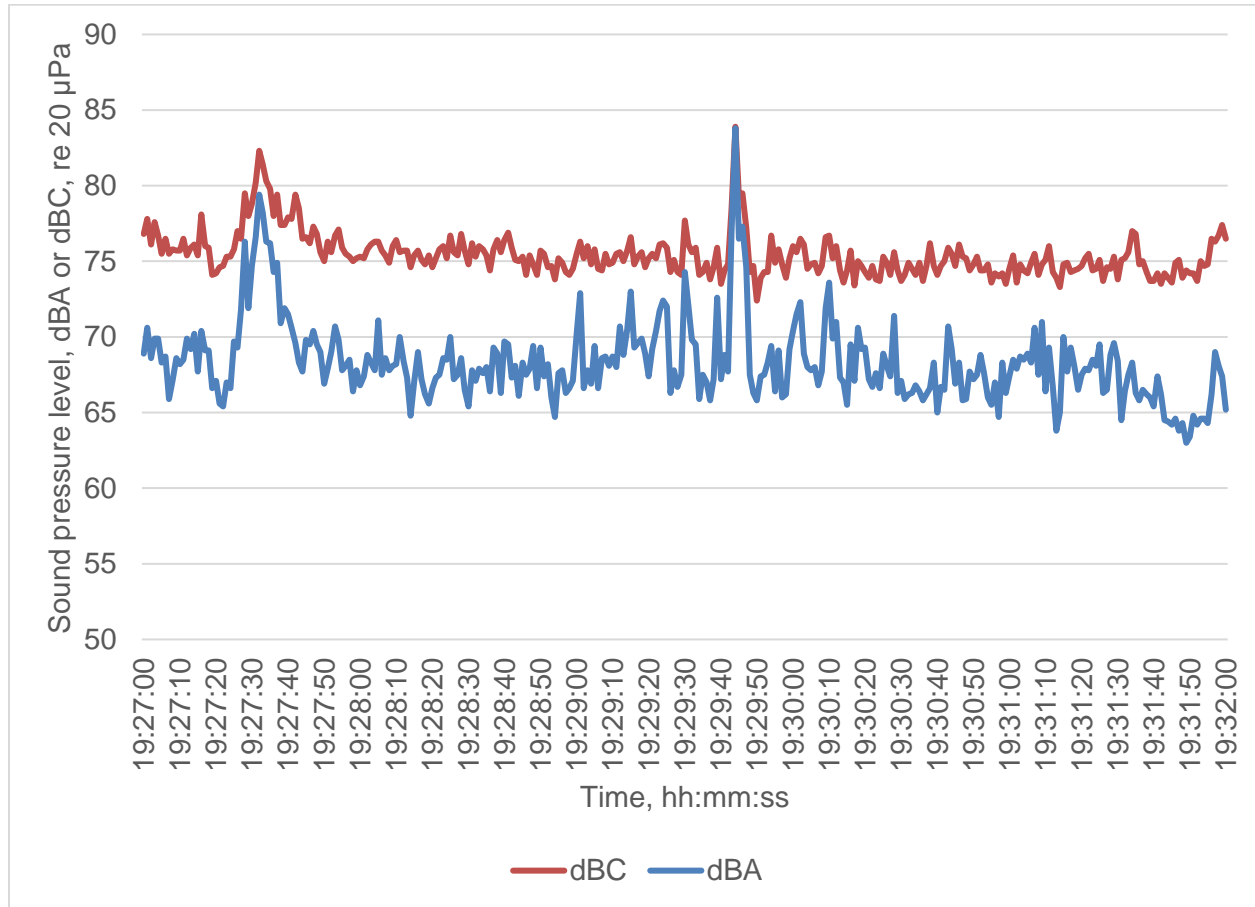
Sound Pressure Levels at Location 1



Sound Pressure Levels at Location 2



Sound Pressure Levels at Location 3



Sound Pressure Levels at Location 4

