

Acoustics
Audiovisual
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Security

6 July 2020

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Email: danielle.chacko@gmail.com

Subject: **14505 Catalina Street**
Assessment of Noise-Generating Equipment
Salter Project: 19-0323

Dear Danielle:

We have conducted an acoustical assessment of the proposed noise-generating equipment at the project site. This letter summarizes our analysis and compares it to the applicable City standards. Our comments are as follows.

SUMMARY

Based on our calculations and analysis, we expect the proposed new equipment at the site to be in-line with the City noise standards.

CRITERIA

San Leandro Noise Ordinance

Chapter 4-1 of the San Leandro Municipal Code states in Section 4-1-1110 General Prohibition as follows:

It is unlawful for any Person, as defined in Section 1-4-100(h) of this Code, to make, continue, or cause to be made or continued any disturbing, excessive or offensive noise which causes discomfort or annoyance to reasonable persons of normal sensitivity. The factors which should be considered in determining whether a violation of this section exist includes the following:

1. The sound level of the objectionable noise.
2. The sound level of the ambient noise.
3. The proximity of the noise to residential property.
4. The zoning of the area.
5. The population density of the area.
6. The time of day or night.
7. The duration of the noise.
8. Whether the noise is recurrent, intermittent, or constant.
9. Whether the noise is produced by an industrial, commercial or noncommercial activity.
10. Whether the nature of the noise is usual or unusual.

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OSHA

The Occupational Safety and Health Standards (OSHA¹) provide guidelines for noise level exposure in workplace environments. These are summarized in the table below.

OSHA Permissible Noise Exposures

Duration Per Day (Hours)	Sound Level (dBA² - slow response)
8	90
6	92
4	95
3	97
2	100
1.5	102
1	105
0.5	110
0.25 or less	115

SITE DESCRIPTION

The project is located along Catalina Street, south of Farallon Drive, west of Doolittle Drive, and north of Estudillo Canal in "Light Industrial³" zoning. The nearest residential property is located across Doolittle Drive approximately 380 feet west of the site.

PROPOSED EQUIPMENT

Based on our correspondence with Eric Hughes of Hughes Consulting, we understand that no new noise-generating equipment will be added at the building's exterior (e.g., rooftop). An existing rooftop exhaust fan from when the building was an Otis Spunkmeyer facility will be used. **Appendix A** of this report summarizes the noise-generating equipment that will be operated at the site.

ASSESSMENT

Based on the manufacturer-provided equipment data, our calculations (summarized in Appendix A) indicate that noise levels at the nearest residential property line would be approximately 50 dBA. This conservatively assumes a "worst-case scenario of all equipment running simultaneously with all windows and doors open. In practicality, actual facility noise levels are expected to be 15-to-30 dB quieter – resulting in a noise level of approximately 20-to-35 dBA at the neighboring property line.

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¹ <https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.95>

² A-Weighted Sound Level – The A-weighted sound pressure level, expressed in decibels (dB). Sometimes the unit of sound level is written as dB(A). A weighting is a standard weighting that accounts for the sensitivity of human hearing to the range of audible frequencies. People perceive a 10 dB increase in sound level to be twice as loud.

³ <https://www.sanleandro.org/civicax/filebank/blobdload.aspx?blobid=27797>

Additionally, our calculations indicate that noise from the existing rooftop exhaust fan will be approximately 23 dBA at the residential property line. Based on our professional experience, we expect that facility equipment noise will be inaudible at the nearest residential properties.

As shown in Appendix A, equipment noise levels are expected to be below 90 dBA in every room of the facility. Thus, the OSHA standards would not be triggered.

* * *

This concludes our assessment of noise-generating equipment at the 14505 Catalina Street project. Please let us know if you have any questions.

Sincerely,

CHARLES M. SALTER ASSOCIATES



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Appendix A Equipment Noise Levels

Room	Manufacturer	Model	Equipment Description	Equipment Noise Level - dBA at 10 feet	Equipment Noise Level - dBA at Nearest Residential Property Line (380 feet)
NON-VOLATILE MANUFACTURING ROOM (ROSIN AND KIEF)					
	Kobalt	3332643 (Quiet Tech)	26 gallon air compressor	60.3	28.7
	Rosin Technologies	Pneumatic Rosin Press (Baby Brick)	Oil extraction machine	38.0	6.4
	Futurola	Mini Shredder	Flower grinder	40.0	8.4
	Rosin Technologies	Pollen Master 4500	Trichome Collector	40.0	8.4
	Can-Filter	Max Fan Pro-Series 16-inch	16-inch Exhaust / recirculating fan	56.3	24.7
Room Total				61.8	30.3
NON-VOLATILE POST PROCESS STORAGE ROOM					
	Can-Filter	Max Fan Pro-Series 10-inch	10-inch Exhaust / recirculating fan	51.3	19.7
MANUFACTURING / PACKAGING ROOM					
	Can-Filter	Max Fan Pro-Series 16-inch	16-inch Exhaust / recirculating fan	56.3	24.7
EDIBLE MANUFACTURING					
	Universal	(Existing) EHF-48-84 (CaptiveAire DU-HFA)	Exhaust fan for 48-inch hood	54.3	22.7
	Can-Filter	Max Fan Pro-Series 16-inch	16-inch Exhaust / recirculating fan	56.3	24.7
Room Total				58.4	26.8
CANNABIS STORAGE ROOM					
	Can-Filter	Max Fan Pro-Series 16-inch	16-inch Exhaust / recirculating fan	56.3	24.7
OVERALL TOTAL					
				67.4	35.8