

Date Plans Provided: 17/05/2022

Acoustic Information – Food Trucks

Monthly Weekend Market – Casaccio Egg Farm

- The main noise generating source for the proposed Market would be primarily from the two proposed Food Trucks. The site is located on a significant road (Bulban Road), opposite the railway line and on a site already used for a non-residential land use. The market is not expected to generate unreasonable noise levels, with the main potential noise sources identified being the two food trucks.
- The food trucks would have an enclosed generator which has potential to generate noise levels of between 52dBA and 60dBA at a distance of 7 metres.
- An allowance of between 3dBA and 5dBA above background noise levels is often acceptable. The lower end of 3dBA has been applied.
- Conservative background noise levels typical of a rural and residential area have been used as a guide. They do not take into consideration nearby road and rail noise and are therefore considered very conservative. They are as follows:

Period	Background Noise Limits in Decibels	Applicable Times Saturday	Applicable Times Sunday
Day	45 dB(A)	7am to 1pm	
Evening	40 dB(A)	1pm to 6pm	7am – 6pm
Night	35 dB (A)	10pm to 7am	

- The proposed Market would operate from 9am to 1pm on weekends, once per month. The night period does not apply. The evening period applies for Sundays.
- On Saturdays, a conservative noise limit of 45dB(A) would apply and on Sundays a noise limit of 40dB(A) has been used. Whilst there are other noise sources nearby (Bulban Road, the rail line) these have not been taken into account and are likely to result in higher background noise levels.
- As the Market would operate from 9am to 1pm, the minimum noise levels to be achieved are 45 dBA on Saturdays and 40 dBA on Sundays.
- The Food Trucks would have enclosed generators that have an ultimate operating noise level of 60dBA at a distance of 7 metres.
- The nearest dwelling (noise receiver) abutting the property is located approximately 40 metres from the closest food truck. At this distance, it is estimated that the level of noise generated would be marginally less than 40dBA. This is based on the following:

Enclosed Generator	Distance 7m	60dBA		
Two noise sources* (Food Truck Generators)	+3dBA =	63dBA		
General allowance above background noise levels (day & evening periods)	Less 3 dBA =	60 dBA		
Fence Attenuation**	6dBA	60dBA less 6dBA =	54dBA	
Distance Attenuation***	6dBA	54dBA less 6dBA =	48dBA	

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Distance Attenuation	6dBA	48dBA less 6dBA =	42dBA	Doubling of distance 14m x 2 = 28m
Distance Attenuation	2.5dBA	42dBA less 2.5dBA =	39.5dBA	At 40 metres
<p><i>*The addition of two identical noise levels will increase the dB level by about 3 dB.</i></p> <p><i>** A typical paling fence (e.g. planks 13 mm thick and overlapped by 25 mm) that blocks the line of sight by at least 1 metre will reduce the level of noise by about 6 dB. The closer a barrier is to the noise source or receiver, the more effective it will be.</i></p> <p><i>***A doubling of the distance between a noise source and a receiver results approximately in a 6 dB decrease for a point source.</i></p>				

The estimated noise level at the nearest receiver would be 39.5dBA at a distance of 40 metres.

The proposed Market is an intermittent weekend-based event, expected to occur monthly across the year (24 days) and for a period of only 4 hours per day (excluding set-up and close down periods). It is requested that permit conditions requiring adherence to the relevant noise limits for weekend activities within a residential zone be applied in this instance.

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