
SS WILSON ASSOCIATES

Consulting Engineers

15/07/2019

Mr. Paulo Da Silva
Project Co-ordination, Land Division
Melrose Investments Inc.
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Dear Paulo,

**Re: Response to Jade Acoustics Peer Review Comments Dated March 12th 2019
on SSWA's Measurement of Railway Vibrations Levels Report for 2650
Mayfield Road dated October 17th 2016.
SSWA File No. WA16-040-V**

SSWA has been provided with Jade Acoustics' March 12th 2019 Peer Review comments on our Noise Control Feasibility Report and Measurement of Railway Vibration Levels reports. The comments addressing the Noise Control Feasibility Report have been addressed through a report revision. The most recent Noise Control Feasibility Report is dated July 4th 2019. The purpose of this memo is to address the comments on the Measurements of Railway Vibrations Levels report.

In their Peer Review report for the City of Caledon, Jade Acoustics commented the following:

"The ground-borne vibration measurements were not conducted within the frequency range of 4 Hz to 200 Hz as required by CN; specifically the measurements were not conducted between 4 Hz to 10 Hz. Based on the measurements conducted it appears that the vibration velocity will not exceed the CN guideline of 0.14mm/s RMS velocity; however, the acoustical consultant should confirm that the CN criteria are being met".

SSWA offers the following response to this comment:

The lower frequencies between 4 to 10 Hz were previously established by SSWA on numerous occasions to be significantly below the dominant frequencies associated with rolling stock in the range from 20Hz to 63Hz. Therefore, the range identified by Jade Acoustics in their comment is of no significance.

Moreover, SSWA has submitted over the past 30+ years numerous vibration measurement reports using the same chart which has not been of any concern to any

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clients, nor to the other peer reviewers we have dealt with, in light of the above consideration. As a matter of fact, in the late 1980's, the MECF was partly involved in the review of railway vibration reports and this was not an issue to the MECF at that time.

For this report, as the highest measured vibration levels at 16Hz to 40Hz are within the acceptable criteria, SSWA concludes that the vibration levels at frequencies 4Hz to 10Hz will also meet the applicable criteria from CN.

We trust that this affirmation will be sufficient to address the concerns noted in Jade Acoustics' March 12th 2019 Peer Review letter.

Best regards,

Asad Rizwan
Project Manager



And

Hazem Gidamy, M.Eng., P.Eng.
Principal

