



The Directors  
Great River NSW Pty Ltd  
February 10, 2020

Dear Sir

## **Nepean Business Park DA2 MOD11 Noise Assessment Response**

### **Introduction**

Thank you for contacting me regarding the Penrith Council submission reference ECM:8943902 with consideration to your proposal DA2 MOD11 which RAPT Consulting prepared a noise and vibration assessment as part of the proposal report #2219190\_190531\_1. This letter as requested by you is a response to Penrith Council's submission with consideration to the abovementioned noise and vibration assessment.

*Table 1 Council Submission & RAPT Response*

Council Submission	RAPT Response
The Noise Assessment submitted in support of the application gives consideration to works being carried out 24 hours a day across the site. For the purposes of the assessment, the site was divided into four areas, based around works in the east, west, central and north quadrants. However, these quadrants were not clearly identified in the report. The assessment found that whilst the works will not exceed the 'highly affected' noise criteria, works will have the potential to impact residential receivers when carried out during the night in all areas except for the western quadrant. For the works in the eastern quadrant, the criteria will be exceeded by up to 15dB at night, meaning that noise levels will be 20dB above background levels. Further, works in the central and eastern quadrants during the evening will also have the potential to impact these receivers.	Figure 1 at the end of this letter shows the quadrants utilised for the assessment. The modelled results represented a worst case scenario where all assessed plant were operating at the nominated sound power levels. This is very seldom if ever the case when it comes to construction noise. Section 4 of the report outlines this and actual received noise levels can be expected to be much lower.
Whilst the assessment suggests some mitigation measures that can be implemented, it does not clearly document the anticipated level of reduction to predicted noise levels that may result from their implementation.	Actual anticipated noise level reduction will vary from plant item to plant item however the actual sound power level from plant operations

Council Submission	RAPT Response
<p>Also, it is not clear from the assessment the extent and frequency of the potential impacts to the residential receivers (ie. such as a discussion of the amount of works required in the eastern quadrant). The assessment does not make any specific recommendations that seem to address the exceedance of the noise criteria, such as restricting works to reduce the level of impact. For example, work could be prevented from occurring in the eastern quadrant during the night period.</p>	<p>from experience would seldomly if ever be operating at their maximum sound power levels. The programme schedule and extent for works was not known at the time of the assessment. Section 4.2 provides a recommended set of noise mitigation measures including monitoring if necessary, to achieve project noise levels</p>
<p>Given this application seeks approval for an increase to operating hours, specifically operating during the night time period, it is considered necessary that further assessment be carried out to delineate the level of impact during this period and additional information submitted to demonstrate that no adverse impact will result from the increased activities.</p>	<p>The noise assessment detailed operations with all provided nominated plant for the proposal for standard and out of hours operations. The assessment outlined the unlikely event of a worst-case scenario for standard and out of hours operations, provided commentary regarding the unlikelihood of this ever occurring and provided a set of recommended mitigation and management measures to achieve project noise levels.</p>



*Figure 1 Quadrants Utilised in the Assessment*

## **Conclusion**

If you have any questions please do not hesitate to contact me on 0488512224 or [greg@raptconsulting.com.au](mailto:greg@raptconsulting.com.au).

Thank you,

*Greg Collins*

Greg Collins

Director – RAPT Consulting