

VALIDATION TESTING REPORT

Our Ref: 6004CW



To: Cloudwater Brew Co.
Unit 9, Piccadilly Trading Estate, Giddings Road, M1 2NP

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Reviewed By: Mr. M. Caley, MSc, MIOA

Date: 12/05/2021

Subject: Entertainment Noise Breakout Validation Testing

Site Address: Cloudwater Brew Co., Unit 9, Piccadilly Trading Estate, Giddings Road, M1 2NP

Brief:

A planning application relating to Unit 9, Piccadilly Trading Estate has been conditionally approved by Manchester City Council. The application is for the change of use of the property from general industrial (use class B2) to sui generis with brewery tap room. The following condition requires discharging:

"3) a) *The premises shall be acoustically insulated and treated to limit the break-out of noise in accordance with the Entertainment & Plant Noise Impact Assessment prepared by Nova Acoustics dated 11/03/2021 received by the City Council as local planning authority on 15 March 2021. This scheme shall be implemented in full before the use commences.*

b) *Upon completion of the development and before the use hereby approved becomes operational, a verification report shall be undertaken to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the approved acoustic consultant's report. The report shall also undertake post completion testing to confirm that above criteria is met. Any instances of non-conformity with the recommendations in the report shall be detailed along with any measures required to ensure compliance with the noise criteria. This report shall be submitted to and approved in writing by the City Council as local planning authority before the use becomes operational along with a timescale that confirms when any necessary changes will be implemented.*

Reason - To ensure an acceptable development in the interests of residential amenity, pursuant to policies DM1 and SP1 of the Core Strategy and saved policy DC26 of the Unitary Development Plan."

Assessment:

NOVA Acoustics Ltd conducted validation testing to assess the level of noise breaking out from the Cloudwater Brewery tap room on 11/05/21 between 19:00 and 21:00. The client has informed NOVA

Acoustics Ltd that a noise limiting device has been fitted within the venue, as per the mitigation recommendations stipulated in the acoustic report (ref: 5331CW). The figure below shows the position of the validation measurement in relation to the surrounding Noise Sensitive Receptors.

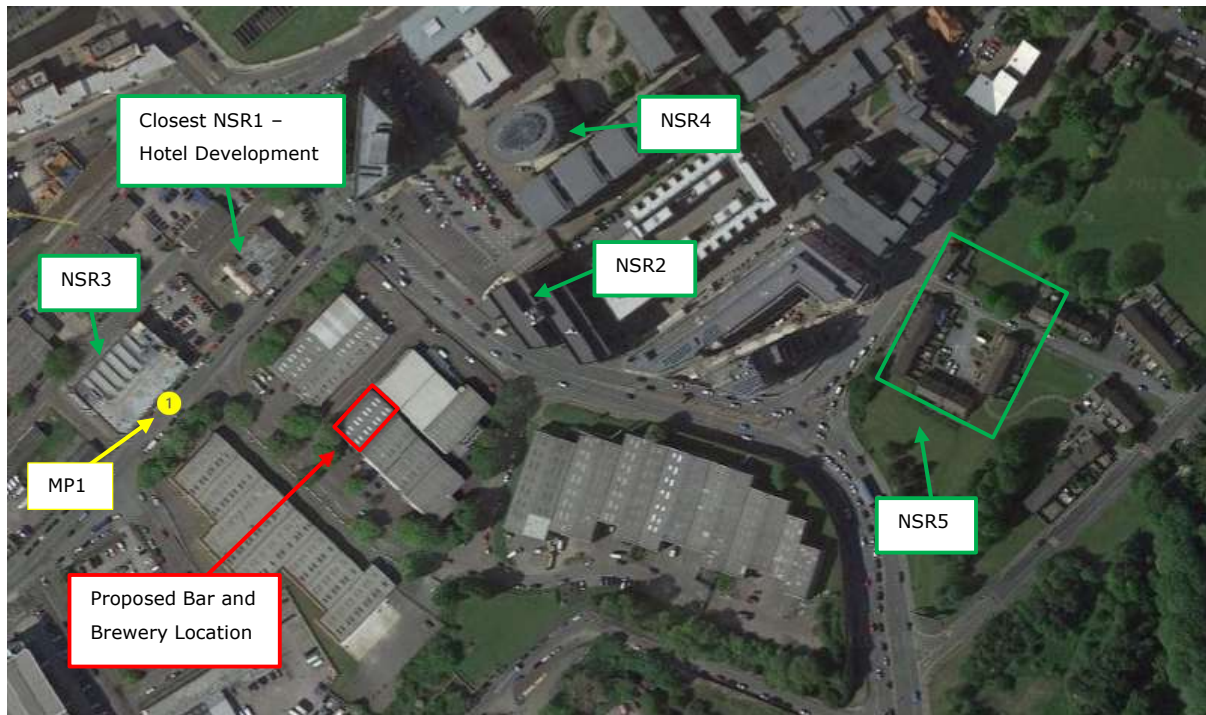


Figure 1.0 – Indicative Site Layout

Short-term 30-minute measurements were taken at ground floor level with the amplified music on and off. The measurement position was selected as there is a direct line of site between the venue and the measurement position, providing a robust assessment.

During the short-term measurements, the amplified music was calibrated to an internal level of 85.0 dBA using a sound level meter. The microphone was positioned in the centre of the room between the two wall mounted speakers, as specified in the acoustic report. It should be noted that this is the maximum sound level the music system can achieve, and as such, music levels are likely to be significantly lower than this for the majority of the time.

To calculate the specific sound emissions from the venue, the residual sound level without the entertainment noise in operation is subtracted from the overall ambient sound level at the same measurement position. Due to the low level of noise breakout from the venue, the specific sound level could not be measured or calculated. This is because the ambient and residual sound levels were within 1.5 dB of each other as can be seen in the table below.

Description	Z-weighted Octave Band Sound Pressure Level, Hz (dB)							L _{Aeq,t} (dB)
	63	125	250	500	1k	2k	4k	
Ambient Sound Level – 11/05/21 – 19:25 to 19:55	69.3	63.5	60.1	58.5	62.6	57.2	49.1	64.8
Residual Sound Level – 11/05/21 – 19:55 to 20:25	67.8	62.8	61.2	59.6	64.1	58.5	48.9	66.2
Difference	1.5	0.7	1.1	1.1	1.5	1.3	0.2	1.4

Table 1.0 – Measured Short-Term Noise Levels

Discussion

As is shown above, the ambient and residual measurements are very similar in level. In some 1/3rd octave band frequencies the residual noise level is actually higher than the ambient noise level, which shows that the noise emissions from the venue are unlikely to be affecting the existing acoustic environment. This is further corroborated by the subjective impression provided by the consultant conducting the testing who has stated that the music noise emissions were inaudible at the measurement position. This is also in line with the predictions and conclusions of the original acoustic report.

Recommendations:

As the music breakout noise was found to be inaudible at Noise Sensitive Receptor 3 (NSR3), where there is no acoustic shielding between the venue and the measurement position, it is also thought to be inaudible at all other Noise Sensitive Receptors. As such, it is deemed that provided the music limit level recommended in the original acoustic report is adhered to, low impact can be readily achieved. Given this, it is deemed that no further mitigation is required.

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