

Heineken Manchester, Denmark Road Manchester

Acoustic Commissioning Report
Report 23102.AC.04

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Report 23102.AC.04			
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1.0 INTRODUCTION

KP Acoustics Ltd has been commissioned by Norder Design Associates Limited, Beech Lawn, Green Lane, Belper, Derbyshire, DE56 1BY to measure noise levels emitted by the Flu-Ace Chimney serving the site at Heineken Manchester, Denmark Road, Manchester, M15 6LD. This follows mitigation measures that were undertaken to control noise breakout from the site. Norder project reference number 8072.

Attended noise surveys have been undertaken on site. This report presents the results of the measurements which are compared with the requirements of the Manchester City Council planning decision notice.

2.0 NOISE ASSESSMENT GUIDANCE

2.1 Local Authority Guidance

The criterion of Manchester City Council in this instance is described in Planning Decision Notice: 123323/FO/2019:

“3) Within three months of the completion of the development a verification report will be required to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the approved acoustic report. The report shall also undertake post completion testing to confirm that the noise criteria has been 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 agreed noise criteria.”

3.0 SITE SURVEYS

3.1 Site Description

The measured plant installation location is described within Table 3.1 and shown within Figure 3.1.

Icon	Descriptor	Plant Description
	Plant Position 1	Flu-Ace Chimney

Table 3.1 Plant position

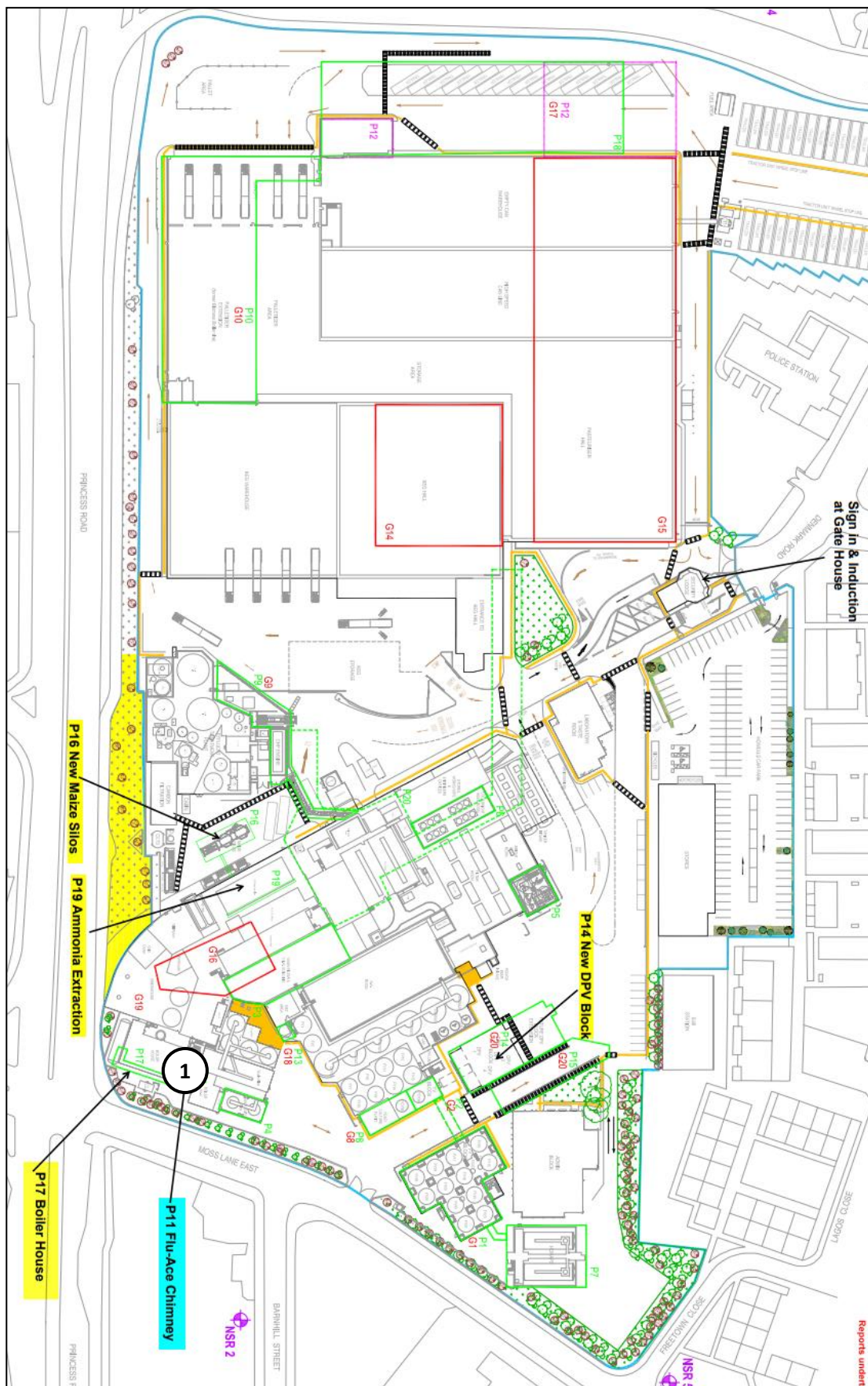


Figure 3.1 Plant positions (Image Source: Heineken)

3.2 Manual Noise Survey Procedure

Manual noise measurements of the installed plant were carried out on 10/12/2024. The microphone was placed 2 metres from the chimney at approximately 1.5m above ground level. This point was chosen after a walk around of the Flu-Ace Chimney to find the noisiest point in relation to the nearest receiver.

The proximity of the measurement, and the noise level of each item of plant means that noise level from each item did not affect noise levels at the other items.

Weather conditions were generally dry with light winds and therefore suitable for the measurement of environmental noise. The measurement procedure complied with ISO 1996-2:2017 Acoustics '*Description, measurement and assessment of environmental noise - Part 2: Determination of environmental noise levels*'.

3.3 Equipment

The equipment calibration was verified before and after use and no abnormalities were observed. The equipment used is described within Table 3.2.

Instrument	Manufacturer and Type	Serial Number
SLM4 Precision integrating sound level meter & analyser	NTi Audio, XL2-TA Calibration No: UCRT23/1957, UCRT23/1965 & UCRT23/1964 Calibration Dates: 20/07/2023 Calibration Due: 19/07/2025	A2A-09207-E0
CAL3 – KP North Calibrator 3	Larson Davies CAL200 Calibration No: UCRT23/1949 Calibration Date: 07/08/2024 Calibration Due: 06/08/2025	8932

Table 3.2 Measurement instrumentation

4.0 RESULTS AND ASSESSMENT

The L_{A90} acoustic parameter was measured during the manned commissioning survey. This metric was used to reduce as far as possible the influence of residual noise from the specific noise of the plant, which was constant. The results of the measurements are shown in the Table 4.1.

Measured Plant Item	Overall (dBA)
Flu-Ace Chimney	76

Table 4.1 Measured noise levels, sound pressure @ 2m

The criterion has been set as shown in Table 4.2 in order to comply with the requirements shown in Section 2.1, for the nearest receiver. The full description of these criteria is included in report reference '23102.PCR.01', dated 23/12/2021. 23102.PCR.01' is referred to as 'the approved acoustic report' in the decision notice condition, so compliance with the criteria in this report grants compliance with the decision notice condition shown in section 2.1.

The resulting noise level at the receiver is calculated by applying a distance correction (approximately 125 metres, with the measurement distance set at 2 metres) to the measured noise level shown in Table 4.2, where it is compared with the criterion.

Receiver	Criterion	Noise Level at 1m From the Noise Sensitive Receiver, dBA
2	50	39

Table 4.2 Resulting noise level at receiver and criterion

The results above show that the noise level at the closest sensitive receiver is significantly below the criterion. Therefore, it can be concluded that the emissions criterion of the local authority described in Section 2.2 has been met.

5.0 CONCLUSION

A manned noise survey for the Flu-Ace Chimney, has been undertaken at Heineken Manchester, Denmark Rd, Manchester, M15 6LD by KP Acoustics Ltd. The results of the survey have enabled assessment for plant noise emissions compliance with the local authority criterion.

Measurements and calculations show that noise emissions from the installed plant are fully compliant with the local authority criteria described in this report, and with the earlier noise report with reference 23102.PCR.01.