

Heineken Manchester, Denmark Road Manchester

Acoustic Commissioning Report
Report 23102.AC.05

Norder Design Associates Limited
Beech Lawn
Green Lane
Belper
Derbyshire
DE56 1BY

Report 23102.AC.05			
Revision History			
First Issue Date: 13/03/2025			
A		D	
B		E	
C		F	
Written by:		Checked by:	
John Cane MIOA Senior Acoustic Consultant		Gonçalo Lemos MIEEnvSc MIOA Principal Acoustic Consultant	
Disclaimer KP Acoustics Ltd. has used reasonable skill and care to complete this technical document, within the terms of its brief and contract with the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the stated scope. This report is confidential to the client and we accept no responsibility to third parties to whom this report, or any part thereof, is made known. KP Acoustics Ltd. accepts no responsibility for data provided by other bodies and no legal liability arising from the use by other persons of data or opinions contained in this report. KP Acoustics Ltd. 2025			

Contents

1.0	INTRODUCTION	1
2.0	NOISE ASSESSMENT GUIDANCE.....	1
2.1	Local Authority Guidance.....	1
3.0	SITE SURVEYS	1
3.1	Site Description	1
3.2	Manual Noise Survey Procedure.....	3
3.3	Equipment.....	3
4.0	RESULTS AND ASSESSMENT	3
5.0	CONCLUSION	4

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 CO2 Building Ammonia Extracts 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 9134.

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: 138497/FO/2023:

“5) Prior to the operation of the scheme a verification report shall be submitted to and approved in writing by the City Council as local planning authority to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the hereby approved acoustic report. The report shall also undertake post completion testing to confirm that the noise criteria have 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
1	Plant Position 1	CO2 Building Ammonia Extracts

Table 3.1 Plant position

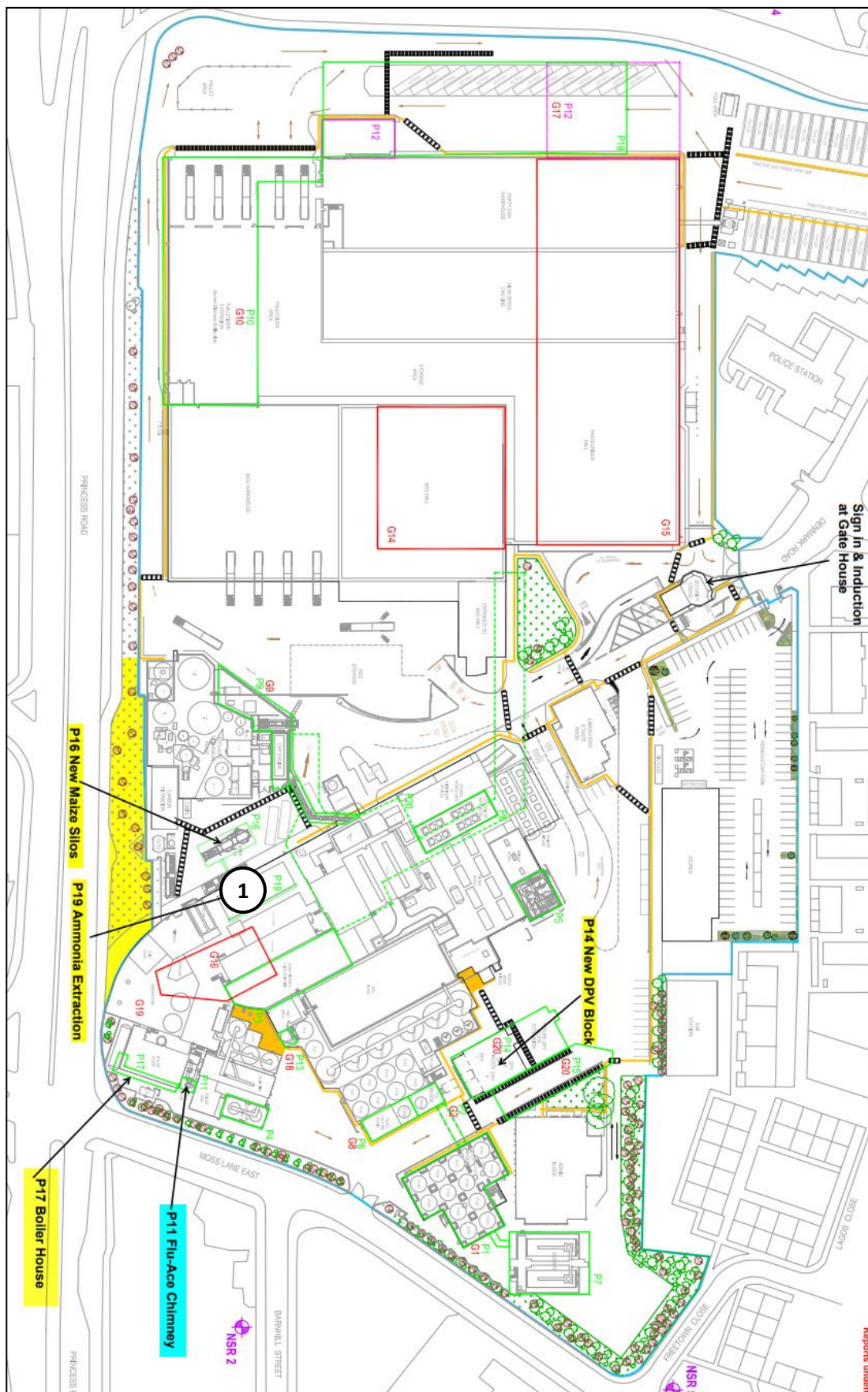


Figure 3.1 Plant positions (Image Source: Heineken)

3.2 Manual Noise Survey Procedure

Manual noise measurements of the installed plant were carried out on 10/12/2024. The microphone was placed 1 metre from the CO2 Building Ammonia Extracts at approximately 1.5m above ground level.

The proximity of the measurement, and the noise level of the plant means that noise level from other plant items on site did not affect noise levels at the measured 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)
Ammonia Extracts	74

Table 4.1 Measured noise levels, sound pressure @ 1m

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 115 metres, with the measurement distance set at 1 metre) 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	32

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 2.1 has been met.

5.0 CONCLUSION

A manned noise survey for the Ammonia Extracts, 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.