TECHNICAL NOTE

North View Adult Mental Health Unit

Odour Control

Date: 12th November 2024

Client Name: North Manchester General Hospital

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Quality Assurance – Approval Status

This document has been prepared and checked in accordance with
Waterman Group's IMS (BS EN ISO 9001: 2015, BS EN ISO 14001: 2015 and BS EN ISO 45001:2018)

Revision	Status	Date	Prepared by	Checked by	Approved by
01	S1	12.11.24	Nuala Maguire Technical Director	Tim Davies Director	Tim Davies Director
02	S1	13.11.24	Nuala Maguire Technical Director	Tim Davies Director	Tim Davies Director

1. Introduction

The original Planning Ventilation Statement for North View Adult Mental Health Unit included provision for UV filtration within the kitchen canopy, however through the course of the detail design process the UV filtration was omitted as the risk of odour pollution was considered to be low given the distance to the nearest property and the fact the site level is higher that the neighbouring properties.

The Council Environmental Health Team have requested that an assessment is carried out based on guidance published by EMAQ titled 'Control of Odour and Noise from Commercial Kitchen Exhaust Systems' dated May 2022, which is a document published after the scheme had been submitted for planning.

2. EMAQ Control of Odour and Noise from Commercial Kitchen Exhaust Systems

The EMAQ Risk Assessment for North View Adult Mental Health Unit is as follows:-

Appendix 3: Risk Assessment for Odour

Odour control must be designed to prevent odour nuisance in a given situation. The following score methodology is suggested as a means of determining odour control requirements using a simple risk assessment approach. The odour control requirements considered here are consistent with the performance requirements listed in this report.

Impact Risk	Odour Control Requirement	Significance Score*
Low to Medium	Low level odour control	Less than 20
High	High level odour control	20 to 35
Very high	Very high level odour control	more than 35

* based on the sum of contributions from dispersion, proximity of receptors, size of kitchen and cooking type:

Criteria	Score	Score	Details
Dispersion	Very poor	20	Low level discharge, discharge into courtyard or restriction on stack.
	Poor	15	Not low level but below eaves, or discharge at below 10 m/s.
	Moderate	10	Discharging 1m above eaves at 10 -15 m/s.
	Good	5	Discharging 1m above ridge at 15 m/s.
Proximity of receptors	Close	10	Closest sensitive receptor less than 20m from kitchen discharge.
	Medium	5	Closest sensitive receptor between 20 and 100m from kitchen discharge.
	Far	1	Closest sensitive receptor more than 100m from kitchen discharge[1].
Size of kitchen	Large	5	More than 100 covers or large sized take away.
	Medium	3	Between 30 and 100 covers or medium sized take away.
	Small	1	Less than 30 covers or small take away[1].
Cooking type (odour and grease loading)	Very high	10	Pub (high level of fried food), fried chicken, burgers or fish & chips. *Turkish, Middle Eastern or any premises cooking with solid fuel*
	High	7	Vietnamese, Thai, Indian, *Japanese, Chinese, steakhouse*
	Medium	4	Cantonese, *Italian, French, Pizza (gas fired),*
	Low	1	Most pubs (*no fried food, mainly reheating and sandwiches etc*), *Tea rooms*[1]

This provides a score of 24 which would place the odour control requirements into the High-Level category.

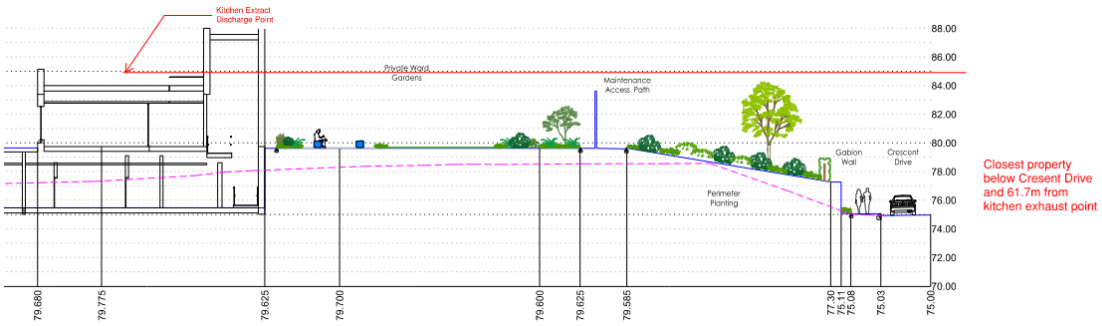
3. Current Installation

The EMAQ document reference was not in place at the time the scheme was submitted to planning, the risk assessment is very simplified and therefore onerous when the site topography is considered in the context of the closest neighbouring property.

The closest property is 61.7m from the location of the kitchen exhaust point.



The kitchen exhaust discharges at roof level of the new building which is sited above line of the closest property which sits below Cresent Drive.



4. Conclusion

Based on the height that the kitchen extract discharges above the closest neighbouring property and distance from the property we believe the dispersion would be good as opposed to the moderate that the simplified risk assessment would imply and therefore the bases of considering this a low risk for odour control.