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Noise Statement

Proposed Home Shopping Refrigeration Plant

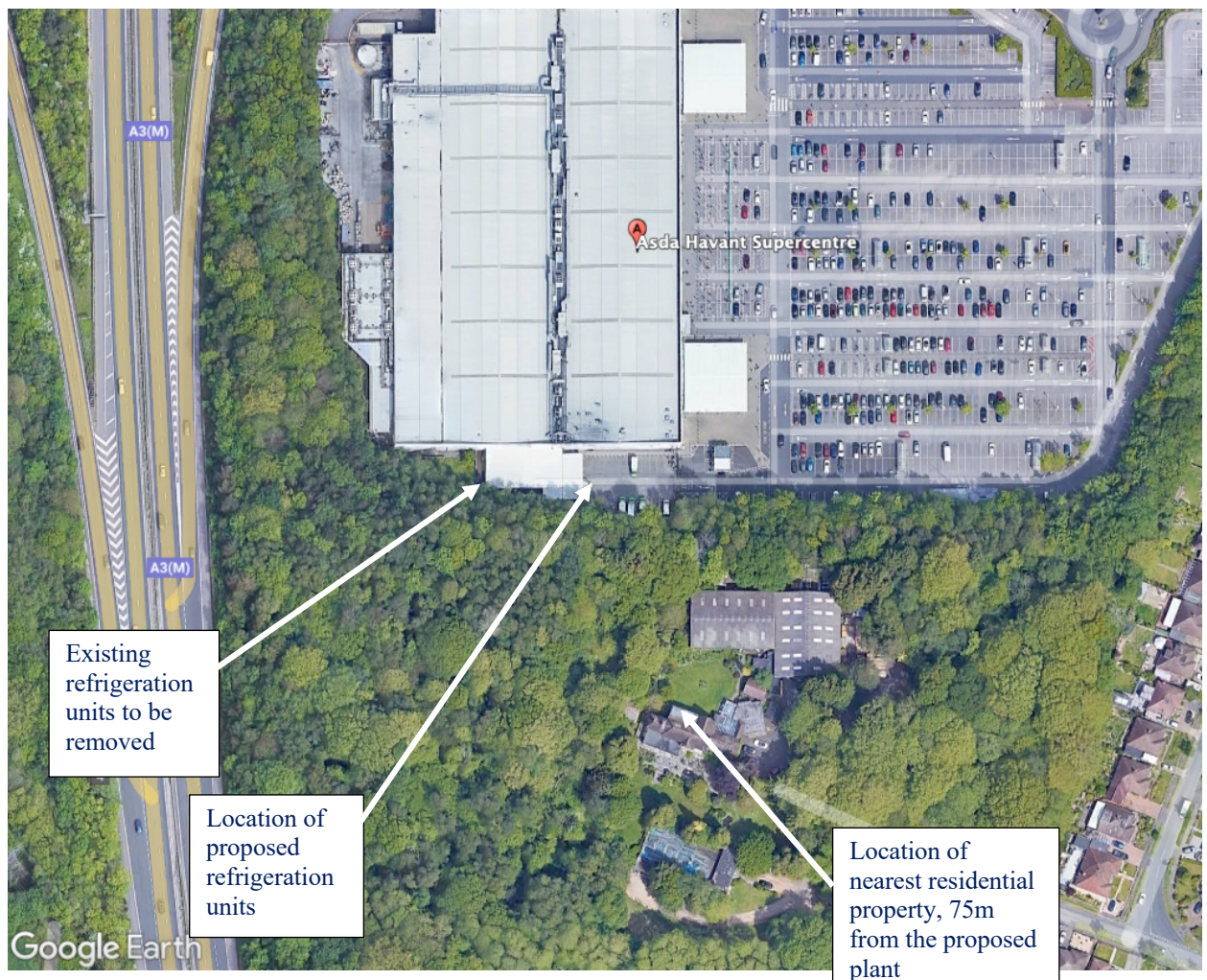
Client:	Asda Stores Ltd
Project	Asda Havant Larchwood Avenue Bedhampton PO93QW
Our Ref:	11669
Revision:	0
Report Prepared By	S. Fowler M.I.O.A.
Date:	8 th October 2021

1.0 Introduction

Acoustic Consultancy Partnership Ltd have been instructed by Asda Stores Ltd to undertake a review of the proposed refrigeration plant that would be installed as part of the revisions to the Home Shopping facility at the Asda Havant store.

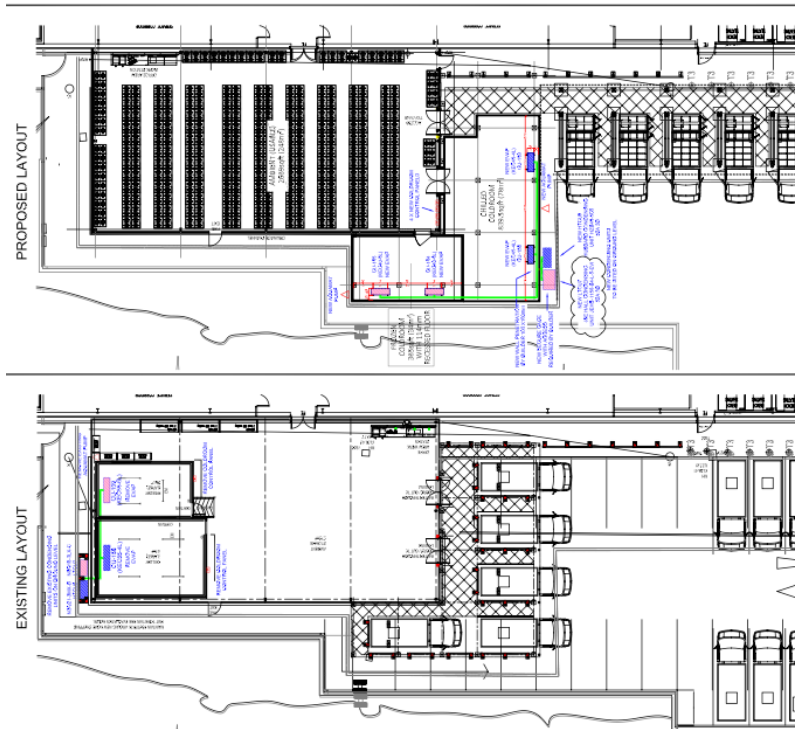
This noise statement provides information on manufacturers plant noise levels, the resultant noise levels at the nearest residential property and a comparison to expected existing night-time noise levels.

2.0 Site Layout



3.0 Refrigeration Plant Noise Information

The proposed changes to the Home Shopping facility would include construction of new chilled and frozen coldrooms, with two associated external refrigeration units, as detailed below.



From experience on other Home Shopping projects, we can confirm the internal evaporators within the coldrooms are not audible externally. The noise associated with the coldrooms is controlled by the external refrigeration plant.

The refrigeration engineers have confirmed the following proposed external refrigeration plant and manufactures noise levels.

1x J&B Hall JEHS-1150-B4-L-3 EVI	42 dBA at 10m
1x Hubbard HZB45-3C3	41 dBA at 10m

4.0 Plant Proposed Noise Level at the Nearest Residential Property

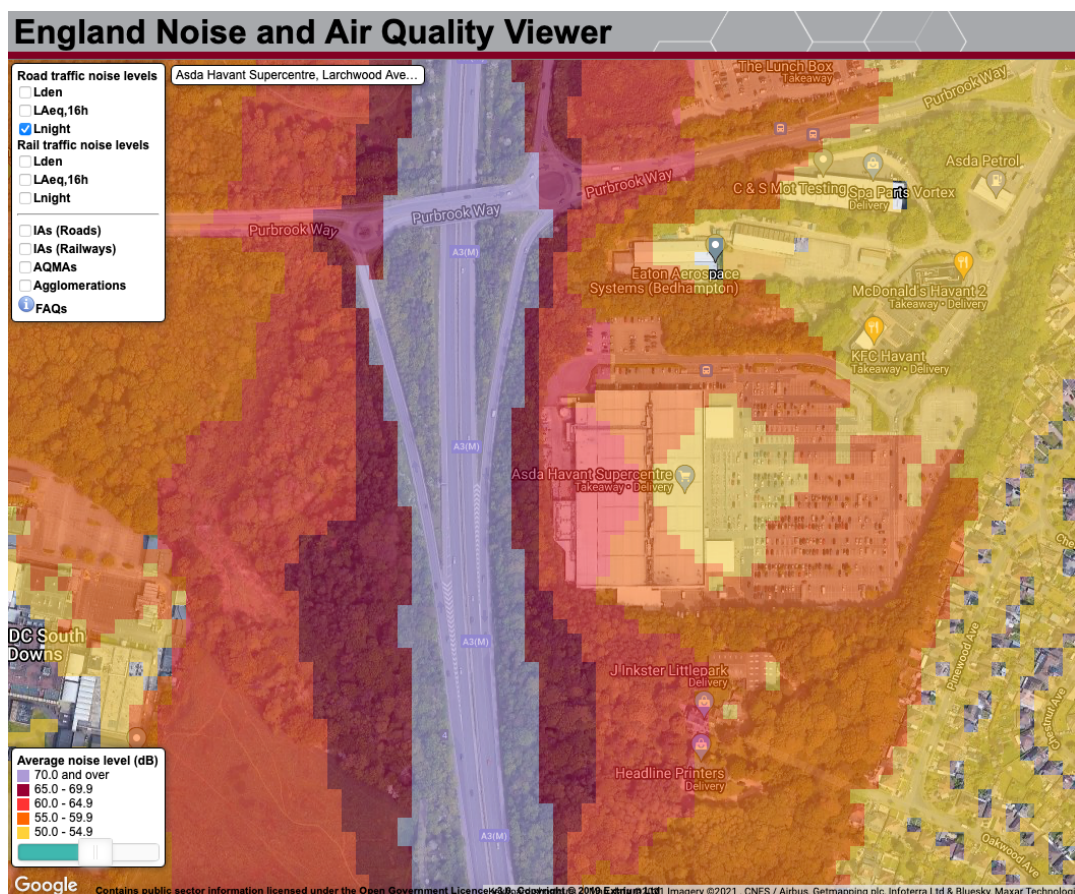
1x J&B Hall JEHS-1150-B4-L-3 EVI	42 dBA at 10m
1x Hubbard HZB45-3C3	41 dBA at 10m
Combined noise level	44.5 dBA at 10m
Correction for Q=4 (installed against wall)	+3dB
Distance correction 10m to 75m	-17.5 dB
Resultant noise level at residential property	30 dB LAeq, T

Based on our experience with this type of unit, we would not expect any acoustic features to be audible at the nearest residential property.

5.0 Expected Existing Noise Climate at the Nearest Residential Property

Given the close proximity of the site to the A3(M), we would expect high existing traffic noise levels throughout the day and night.

Guidance can be taken from the Extrium Strategic Noise Maps for England, as given below





Based on the Extrium data, the average night-time noise level at the nearest dwelling is in the 55.0 to 59.9 dB L_{night} category.

The Background $L_{A90,T}$ noise level at night would be lower than the Extrium data, but we would still anticipate a night time background noise level of at least 40 dB $L_{A90,T}$

6.0 Conclusions

In accordance with BS4142:2014+A1:2019, where the rating level of the proposed plant does not exceed the background noise level at the nearest noise sensitive receptor, this is an indication of low impact.

Based on the information detailed above, the proposed refrigeration plant rating level would be in the region of 10 dB or more below the night-time background noise level at nearest residential property. This is below the low impact threshold given in BS4142+A1:2019.

We therefore confirm the proposed plant noise level would be acceptable, with no adverse impact at the nearest dwelling and no noise mitigation required.