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TECHNICAL NOTE

DISTRIBUTION CENTRE - NOISE ASSESSMENT

Woodhead Garage, 115 Froghall Road, Cheadle, Stoke-on-Trent ST10 2DN

Date 27th October 2022

Site Visited N/A

LA Ref. SMD/2022/0175

Martec Ref. 20221107 9283 TN.docx

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1.0 Introduction

Martec prepared comparative predictions of existing activities at the above location and a proposed extension to the HGV parking area in an earlier report [20220804 9283 Cheadle]. This Technical Note details the results of additional predictions and has been prepared at the request of the local authority Environmental Health Department.

2.0 Noise Modelling Methodology

This was the same as used in our earlier report and incorporates an acoustic fence at the request of the local authority; in addition, it was noticed that no allowance had been made for the proposed increase in landform height to the northern side of the extended HGV parking area and this has now been included

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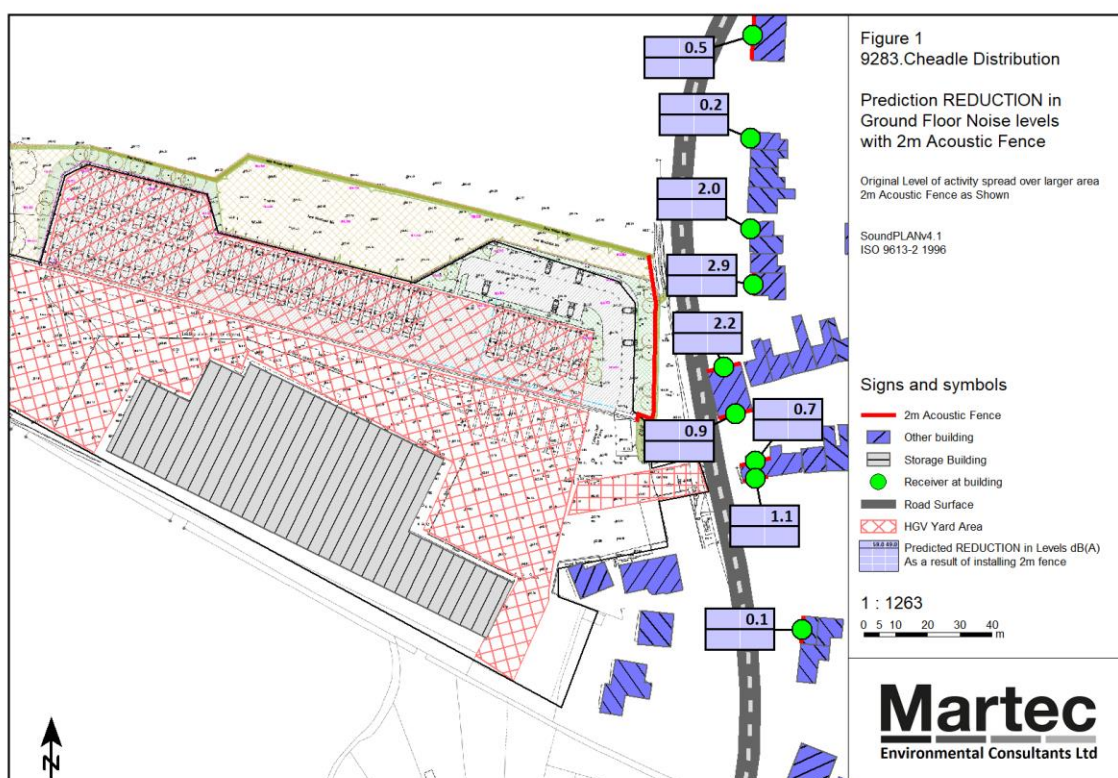
131 New Court Way, Ormskirk, Lancs L39 2YT



in the modelling.

3.0 Results

The following figures compares the predicted level for the existing situation against the proposed situation [including the effect of a 2m high fence] and details the expected fall in levels at the nearest dwellings.



4.0 Discussion and Conclusion

From Figure 1 above it can be seen that the predicted **reductions** in noise level vary from 0.1 to 2.9 dBA; nowhere is predicted an increase in level; as might be expected the greatest reductions occur closest to the proposed acoustic fence.

A change in level of 2 to 3dB is generally regarded as the least discernible difference, **were the change to occur instantaneously**; therefore, it is unlikely that residents would notice the reduction in noise level.

Regarding the 2m high acoustic fence a sample specification appears in Appendix 1.

As a result of this Technical Note, the conclusions to our earlier report [in italics below] would be modified as shown [**bold text**]

*Based on the above assumptions, **which incorporate a 2m high acoustic fence**, the predictions indicate that the noise impact of the storage and distribution centre **may fall slightly, but overall** should not change significantly as a result of using the extended area.*

Again, it should be stressed that the predictions assume a nominal sound power level and there is no suggestion that the absolute predicted levels are accurate; however, the differences between the predicted levels for each scenario should form a reliable basis for comparing their noise impacts.

Consequently, it is considered that the noise impact should not bar the grant of planning consent for the proposals.

APPENDIX 1 SAMPLE ACOUSTIC FENCE CONSTRUCTION

