

A096474

09th December 2020

Response to comments received from Regulatory Officer, Environmental Health (Mr Mark Moss) at Havant Borough Council (HBC) received on 23rd September 2020 regarding the submitted Noise Assessment by WYG (ref A096474 dated 20th May 2020) for planning application reference APP/20/00441.

WYG Responses in Blue

HBC Comments

I refer to the above application under the Town & Country Planning Acts passed to this Service for comment. I have perused the documentation provided by the applicant, including the noise assessment related to traffic noise in the main from the adjacent A3M motorway and the adjacent Hulbert Road.

There are some points I would ask to be clarified by the acoustic consultants in regard to the submitted assessment of May 2020. These are as follows:

HBC Comment 1

- a. It would be appreciated if figures depicting the suggested levels within the key on both SK03 & SK04 be provided as is done for SK05 to SK07.

WYG Response 1

The noise levels within the key on both SK03 & SK04 can be referred to in Figure 2.1 of the noise assessment and cross-referenced with the ProPG noise risk categories (Professional Practice Guidance on Planning & Noise). However, for clarity we have included both figures (Figure 1 and Figure 2) below with a key depicting the specified levels.

Figure 1 – ProPG Risk Assessment Stage; Existing Daytime $L_{Aeq16hour}$ Noise Levels

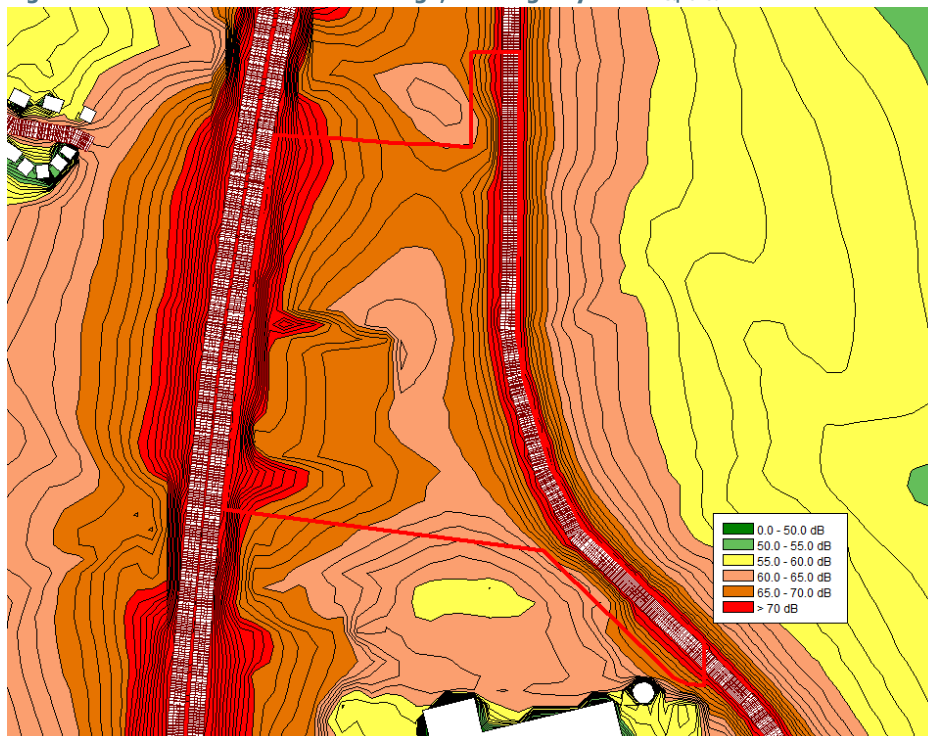
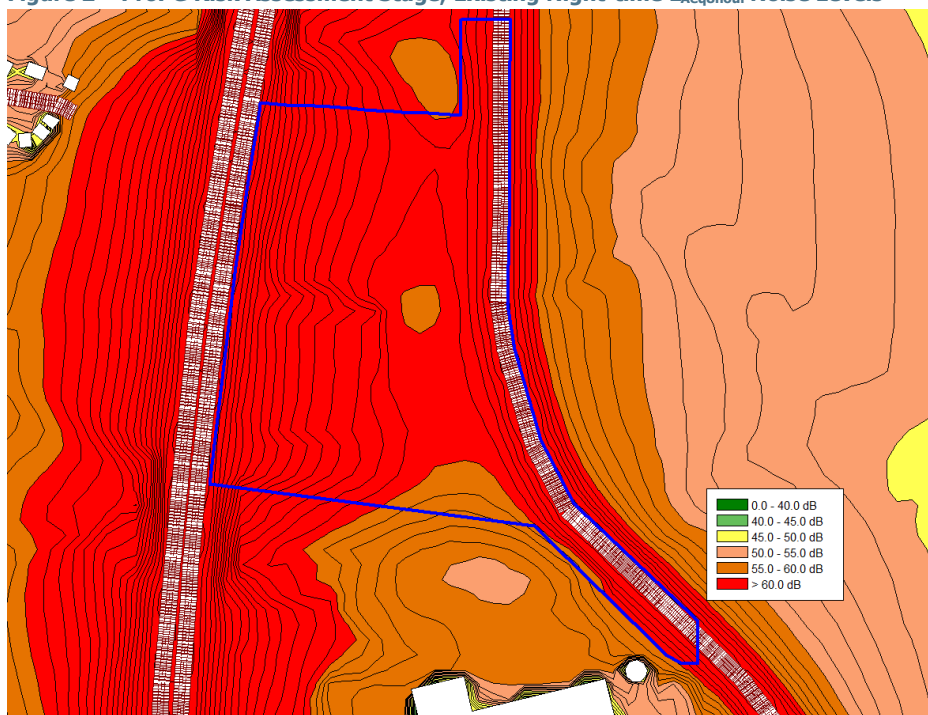


Figure 2 – ProPG Risk Assessment Stage; Existing Night-time $L_{Aeq8hour}$ Noise Levels



HBC Comment 2

- b. to assist with understanding the noise contour plotting in SK03 & SK04, can it be clarified as to why the daytime noise levels appear to be medium to high, whereas the night time levels are depicted as mainly high; this also being corroborated in Table 5.1.

WYG Response 2

Referring back to Figure 2.1 of the original noise assessment. Noise levels considered to be 'high-risk' when assessed in accordance with ProPG are 70 dB and above during the day and 60dB and above at night. The colours shown in the two noise contour plots above (Figures 1 & 2) represent different noise levels depending on whether it is daytime or night-time, as shown in the two keys for respective plots.

HBC Comment 3

- c. with SK05 to SK07, if the return legs of the bund wall / acoustic fencing were to be extended further along both the north & south boundaries, what impact might that have in reducing noise levels further within the residential portion of the site.

WYG Response 3

If the bund and acoustic barrier were to be extended as shown indicatively in Figure 3 below, there would be marginal additional noise reduction of up to 2.2 dB at R01 during the day and 1.4 dB at night, as shown in Tables 1 and 2 below, when compared to the proposed barrier alignment. An extension to the proposed barrier alignment is therefore not considered necessary.

Figure 3 – Location of Extended Bund / Barrier

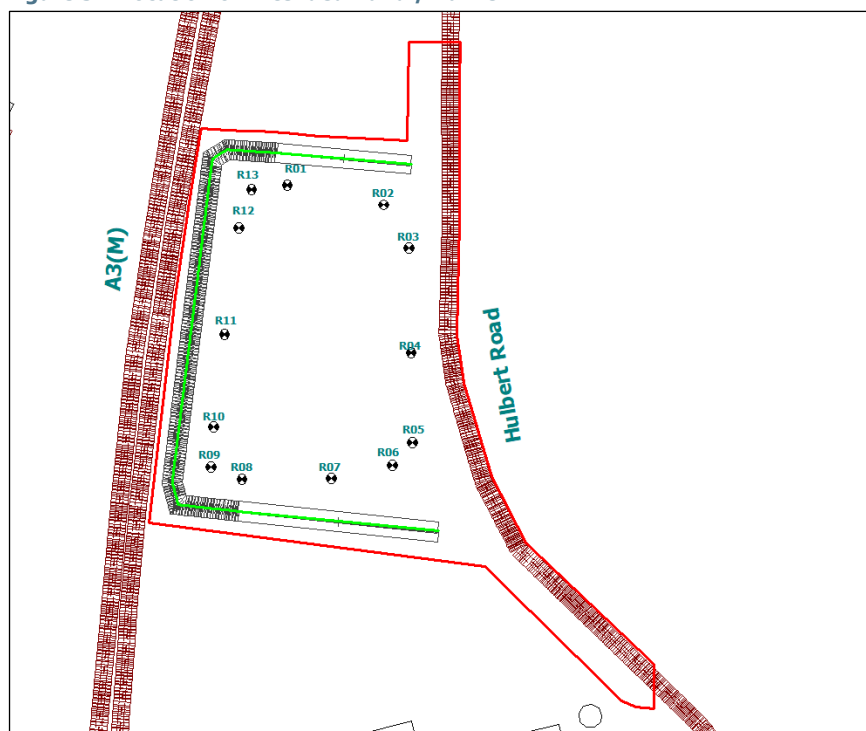


Table 1 Daytime Noise Intrusion Levels $L_{Aeq,16hr}$ Comparison

Ref	External $L_{Aeq,16hr}$ Original Barrier Alignment	External $L_{Aeq,16hr}$ New Barrier Alignment	Level Difference dB(A)
R01	62.7	59.9	-2.8
R02	63.6	61.9	-1.7
R03	64.7	64.3	-0.4
R04	64.6	64.3	-0.3
R05	62.9	62.4	-0.5
R06	62	61.3	-0.7
R07	61.9	59.9	-2
R08	59.3	61.3	2
R09	59	60.6	1.6
R10	59.5	61	1.5
R11	62	63.3	1.3
R12	60.9	60.7	-0.2
R13	60.5	60.5	0

All values are sound pressure levels in dB re: 2×10^{-5} Pa.

Table 2 Night-time Noise Intrusion Levels $L_{Aeq,8hr}$ Comparison

Ref	External $L_{Aeq,16hr}$ Original Barrier Alignment	External $L_{Aeq,16hr}$ New Barrier Alignment	Level Difference dB(A)
R01	59	57.2	-1.8
R02	60.1	58.8	-1.3
R03	60.8	60.1	-0.7
R04	60.3	59.8	-0.5
R05	59.4	58.3	-1.1
R06	58.8	57.2	-1.6
R07	58.9	56.4	-2.5
R08	55.8	58.4	2.6
R09	55.6	57.6	2
R10	56	57.9	1.9
R11	58.8	60.7	1.9
R12	57.8	57.6	-0.2
R13	57.7	57.8	0.1

HBC Comment 4

- d. the heights of 1.5m & 4m have been used for modelling and plotting purposes for the site. Are noise plotting predictions available for potential noise levels at 8m & 12m?

WYG Response 4

Figures 4 – 7 below show daytime and night-time noise contour plots at receiver heights of 8m and 12m as requested.

Figure 4 – Daytime L_{Aeq} Plot at 8m

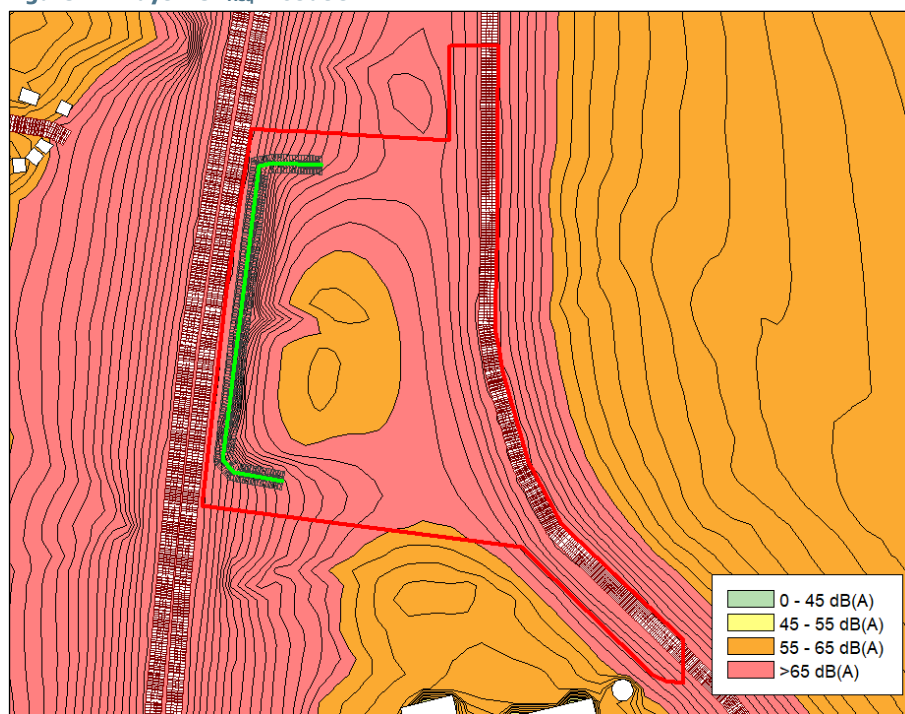


Figure 5 – Daytime L_{Aeq} Plot at 12m

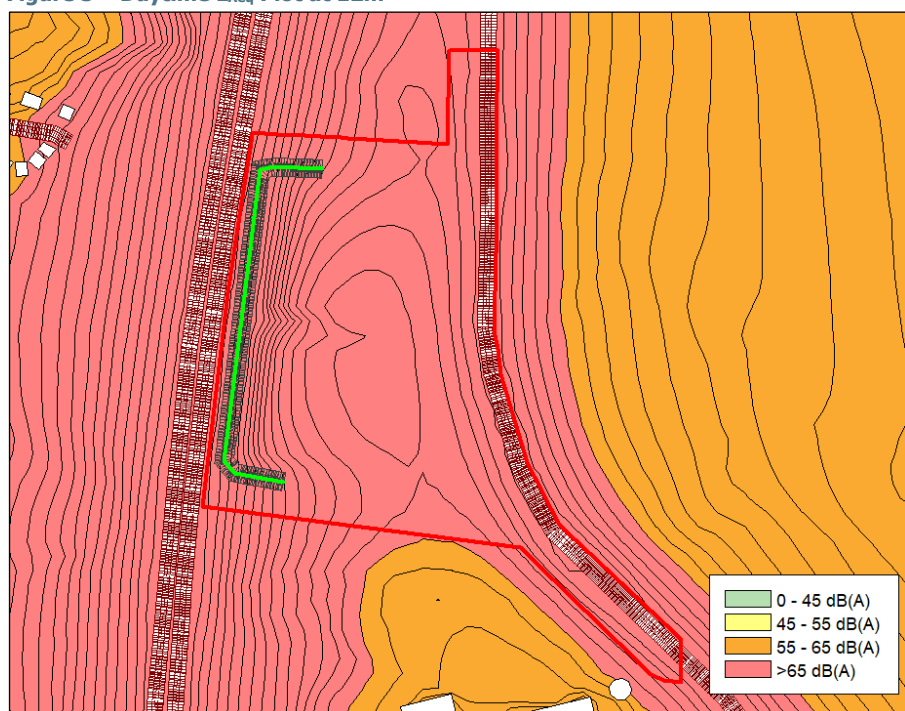


Figure 6 – Night-time L_{Aeq} Plot at 8m

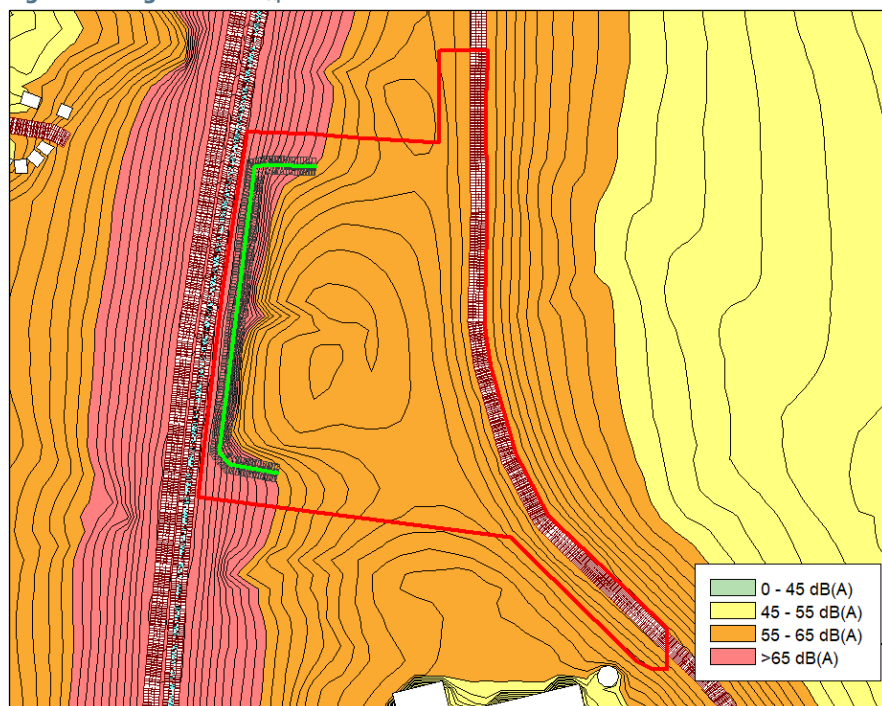
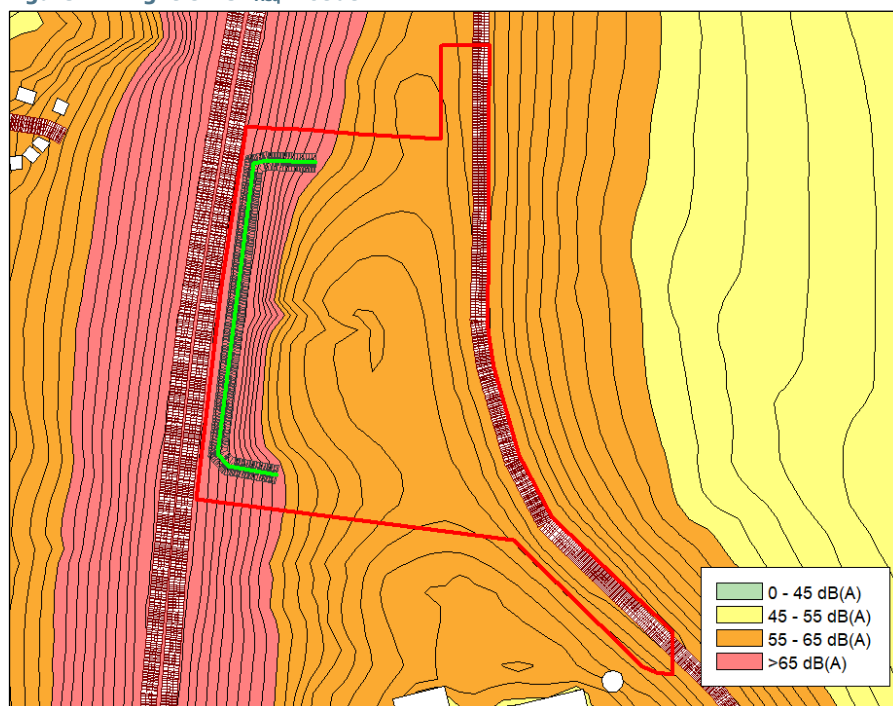


Figure 7 – Night-time L_{Aeq} Plot at 12m



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