



Acoustics Environment

20 October 2024

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Independent Consultants

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CASSIDY & ASHTON

10 Hunters Walk

Canal Street

Chester CH1 4EB

For the attention of: Mr Guy Evans - Director

Dear Mr Evans,

Maelor Foods Ltd. Pickhill Lane, Wrexham LL13 0UE

Re. Noise Impact Assessment – Additional Considerations on Background Sound Levels

I write following our correspondence of 11th inst. concerning the above.

Additional analysis has since been carried out relating to night-time data acquired in our survey work of 19 to 20 June 2024 with respect to Marlbrook House, Pickhill Lane (monitoring position 'Site A'). As previous, night-time equates to the period 23.00 to 07.00 hours and the same approach has been taken, in that 1-second data sets are considered for the sub-periods 23.00 to midnight, 23.00 to 01.00, 06.00 to 07.00, and 05.00 to 07.00 in terms of modal averages.

	L_{AF90}, dB	(Site operational)
	Background Sound Level	
Mode 23.00 - 00.00	36	
Mode 23.00 - 01.00	35	
Mode 06.00 - 7.00	43	
Mode 05.00 - 7.00	40	

The respective periods for the start and end of the night show good correlation either for 1 or 2 hour periods (as before), and no doubt the end



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of night-time leading up to the on-set of daytime is again elevated on account of the environment becoming busier. The data analysis also exhibits good correlation with that obtained for 14 to 15 October 2024.

To reiterate what we have previously reported to the council (based on the assessments carried for Natural Resources Wales), for measurement times between 23.00 to 01.00 when the Maelor site was operational, a Background Sound Level of L_{AF90} 35 dB was concluded, which accords with the analyses for both 14-15 June and 19-20 June this year.

Examining the whole night-time 8 hours period for 19-20 June, the mode average is 34 dB, compared to 31 dB (corrected) for 14-15 June.

As per our letter of 10 October, for measurement surveys carried out on 29 to 30 September 2023, the Background Sound Level for measurements between 00.00 and 01.00 is L_{AF90} , 35 dB, and on 2 October 2023 between 06.00 and 07.00 L_{AF90} , 44 dB, with the Maelor site operational. Note the latter is in good agreement for the period 06.00 to 07.00 on 20 June 2024.

It is sensibly offered as before that Background Sound Levels for the end of the night-time period as stand-alone values should be discounted for noise rating purposes, as they would not suitably represent earlier phases of the night.

A night-time Background Sound Level as low as 32 dB(A) is used for the whole period (which was also determined for the site shutdown and so in the absence of HGV movements) and 35 dB(A) when considering the start period, which equate to values attained when the Maelor site was closed. Data from 19-20 June also justifies our approach, omitting consideration of the end of the night-time period in isolation.



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The above hopefully serves to further underpin the adequacy of the noise impact assessment and can redress any remaining concerns on the part of the council's public protection service.

Regards,


Electronic

Director

Acoustics & Environmental Consultant