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**By email**

Date: 12th December 2010  
Reference: R2296-4 Rev 0

Dear Stuart

**Re: Econometrics, Farnborough- Noise Impact Assessment**

Further to your recent request, I am pleased to provide you with our update of the noise impact assessment of the above site which takes into account the proposed 4 m reduction in the extent of the acoustic barrier fence (3 m in height) at the site entrance.

We understand that planning consent for the development has been granted and is subject to a condition which states the following:

*'Sound levels from the operation of the biomass generator and other operations on site, including construction of the development, will not exceed 5dB below the ambient background noise levels at the boundary of the neighbouring residential properties as identified in Table 4 of the noise assessment report.'*

The calculations of the noise emission from the site have been re-worked, based upon the same site activities as those considered in 24 Acoustics' original assessment (technical report Reference R2296-1 Rev 1), but with the western gatepost relocated by 4 m from its original position and the acoustic barrier fence shortened as a result of this.

The noise level at the nearest residential properties (1 Lynchford Lane) has been calculated and this indicates that the noise level from the site recycling activities will increase by 1 dBA. There will be no change to the noise level from the biomass plant operation.

The original noise impact assessment table (Table 4) is updated below.

Time of Day	Operation	Average Background noise level, dB L <sub>A90</sub>	Specific Source Level dB L <sub>Aeq</sub>	BS 4142 Rating Level, dBA	BS 4142 Assessment Semantic
Weekday	Recycling & Biomass Plant	61	52	57	< Marginal Significance

Saturday	Recycling & Biomass Plant	60	52	57	< Marginal Significance
Night	Biomass Plant Only	49	21	21	< Complaints Unlikely

**Table 1:** Updated Noise Impact Assessment

The calculations indicate that the noise level from the operation (the specific source level) will be more than 5 dBA lower than the average  $L_{A90}$  sound pressure level at all times and therefore the operation with the modified acoustic barrier fence will comply with the noise-related planning condition.

I trust the above is acceptable to you. Should you have any further queries please do not hesitate to contact me.

Yours Sincerely  
**For 24 Acoustics Ltd**

Reuben Peckham BEng MPhil CEng MIOA  
Principal Consultant

