

**PROPOSED DEVELOPMENT AT BISHOPTON LANE, STRATFORD-ON-AVON
NOISE AND AIR QUALITY BRIEFING NOTE
OUR REF: AB/TR/20459 – JUNE 2015**

This briefing note provides a summary of the Noise and Air Quality work being undertaken for a proposed development at Bishopton Lane, Stratford-upon-Avon.

Air Quality Assessment

The need for an Air Quality has been discussed with the Environmental Health Officer at Stratford-upon-Avon District Council. The need for a detailed assessment will be informed by comparing 'with development' and 'without development' traffic flow data to determine whether there is a risk of a significant air quality effect within designated Air Quality Management Areas.

If the scoping exercise indicates that full assessment is required, then this will be undertaken for identified locations. If assessment findings indicate that mitigation to manage pollutant concentrations is required, then measures to ameliorate air quality will be provided.

A construction dust assessment will be undertaken to identify any potential risks and mitigation measures required to ameliorate potential adverse impacts.

Air Quality is not considered to be a constraint to development of this site.

Noise Assessment

Assessment of noise impact upon future receptors at the proposed development has been undertaken with reference to BS8233:2014 'Guidance on sound insulation and noise reduction for buildings' and World Health Organisation 'Guidelines for Community Noise' 1999. These documents provide recommended noise level limits for outdoor living areas, living rooms and bedrooms. A summary of noise level criteria is provided below:

- a. Living rooms (daytime) $L_{Aeq,16hour}$ 35dB(A);
- b. Bedrooms(daytime) $L_{Aeq,16hour}$ 35dB(A);
- c. Bedrooms(night-time) $L_{Aeq,16hour}$ 30dB(A);
- d. Bedrooms (night-time) L_{AFmax} 45dB(A);
- e. Outdoor living areas $L_{Aeq,16hour}$ 50dB(A) lower limit and 55 dB(A) upper limit.

A full Noise Assessment has been undertaken for the site, which utilises on-site noise monitoring and noise modelling software to predict noise levels and test requisite mitigation. The Noise Assessment methodology has been discussed and agreed with the Senior Environmental Health Officer at Stratford-upon-Avon District Council to ensure the assessment meets the requirements of LPA.

The main sources influencing sound levels at the site are road traffic using the A46, Bishopton Lane and The Ridgeway. Detailed noise monitoring has been completed on site at locations agreed with the Environmental Health Officer at Stratford-upon-Avon District Council. The results have indicated areas immediately adjacent to the A46, Bishopton Lane and The Ridgeway exceed recommended external noise levels as stipulated in British Standard and World Health Organisation Guidelines.

It is therefore proposed that dwellings along these boundaries will be positioned to face out from the development to protect rear garden amenity and suitable glazing and ventilation systems will be used to protect internal amenity.

With these measures in place and suitable standoff distances applied all internal and external noise levels can be achieved in line with relevant guidance. On that basis noise is not considered to be a constraint to the development of this site.

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