

Marshall Day Acoustics - various graphs comparing predicted noise levels with actual levels  
Compiled from various MDA reports for Waterloo wind farm by M Morris June 2015

### Graphs of Post Construction Noise Monitoring are extracted from the following Reports by Marshall Day Acoustics

1. Rp005 2010277 - Waterloo Wind Farm noise complaints - Dixon property.doc Page 12 of 23
2. REPORT No. 002 2010277 PROJECT: WATERLOO WIND FARM POST-CONSTRUCTION NOISE COMPLIANCE ASSESSMENT
3. REPORT No. 004 R01 2010277 PROJECT: WATERLOO WIND FARM NOISE COMPLAINTS – FAINT AND QUAST PROPERTIES

Black lines indicate EPA noise limit for the individual properties.

Red line is the post construction noise

Blue dotted line is the predicted noise level

Note that the actual measured levels are much higher than the predicted noise levels.

In some cases actual levels are up to **15 dB (A)** higher than the consultants predicted

Some graphs do not show a predicted noise level line, however they were included as they show that the wind farm would not be compliant with the 35dB(A) criteria under which it was originally approved and it would not be compliant in a state using the 2003 guidelines

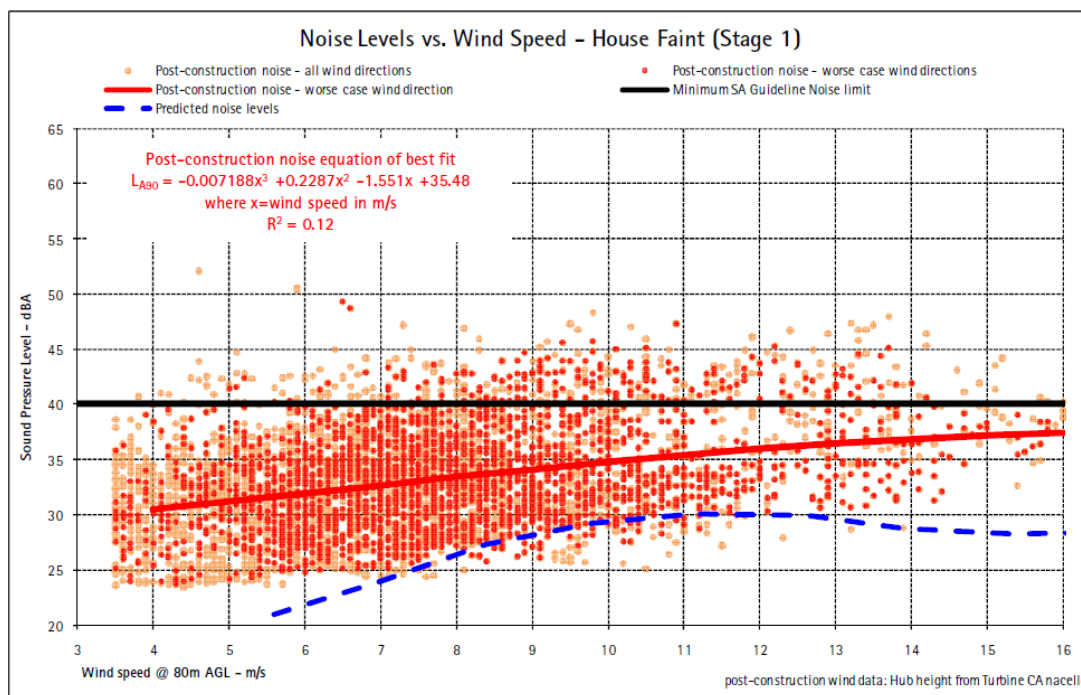


Figure 2: Post-construction noise levels vs. wind speed at the Faints' property

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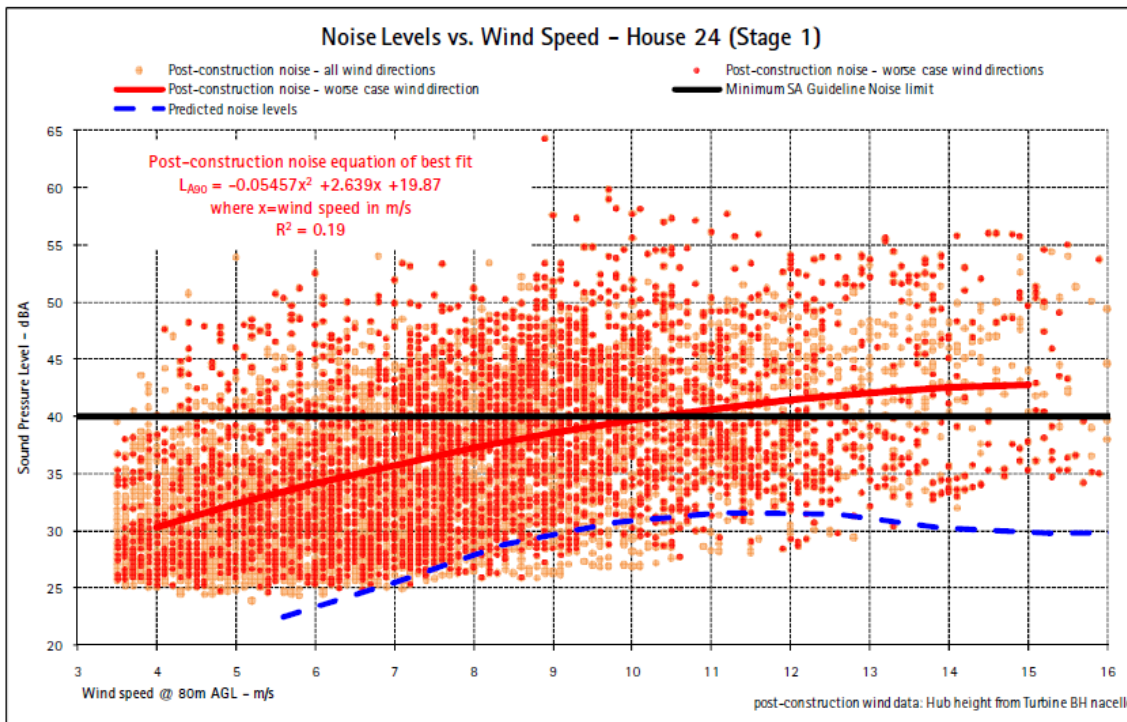


Figure 3: Post-construction noise levels vs. wind speed at the Quasts' property

It can be seen from Figure 3 that post-construction noise levels measured at the Quasts' property comply with the 2009 Guidelines 40dBA base noise criterion at wind speeds from cut-in to 10m/s. The post-construction noise levels exceed the 2009 Guidelines 40dBA base noise criterion for wind speeds above 10m/s.

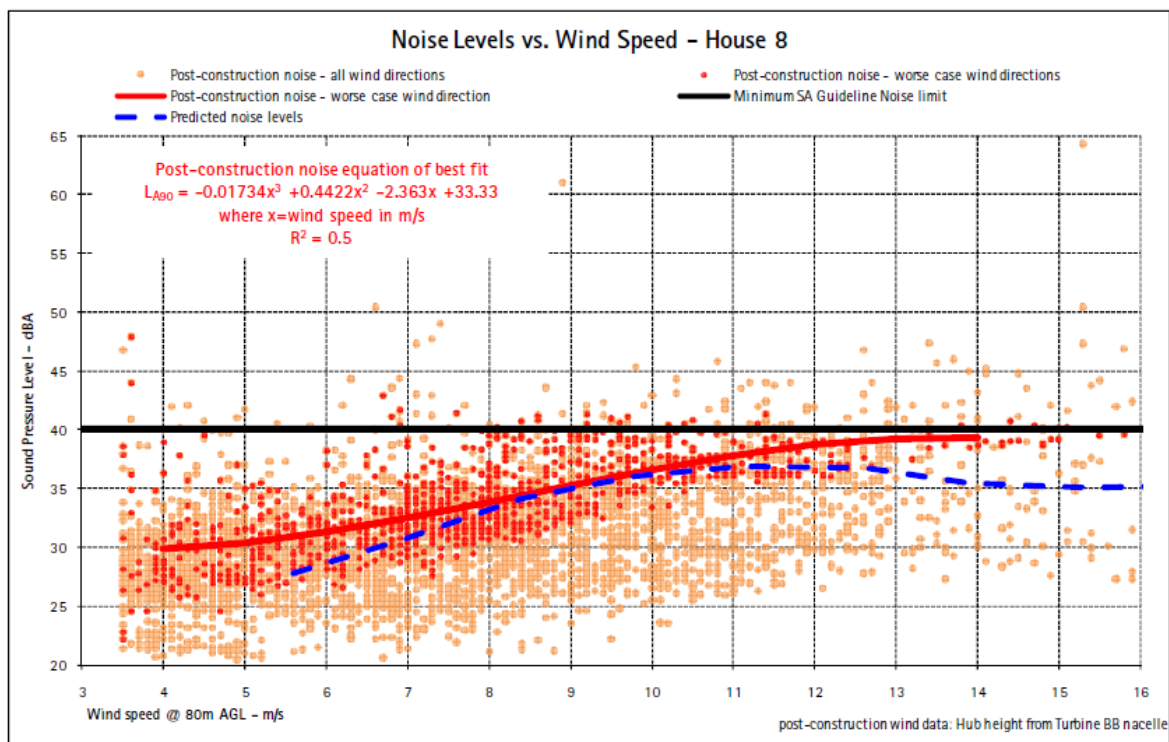


Figure 4: Post-construction noise levels vs. wind speed at the House 8

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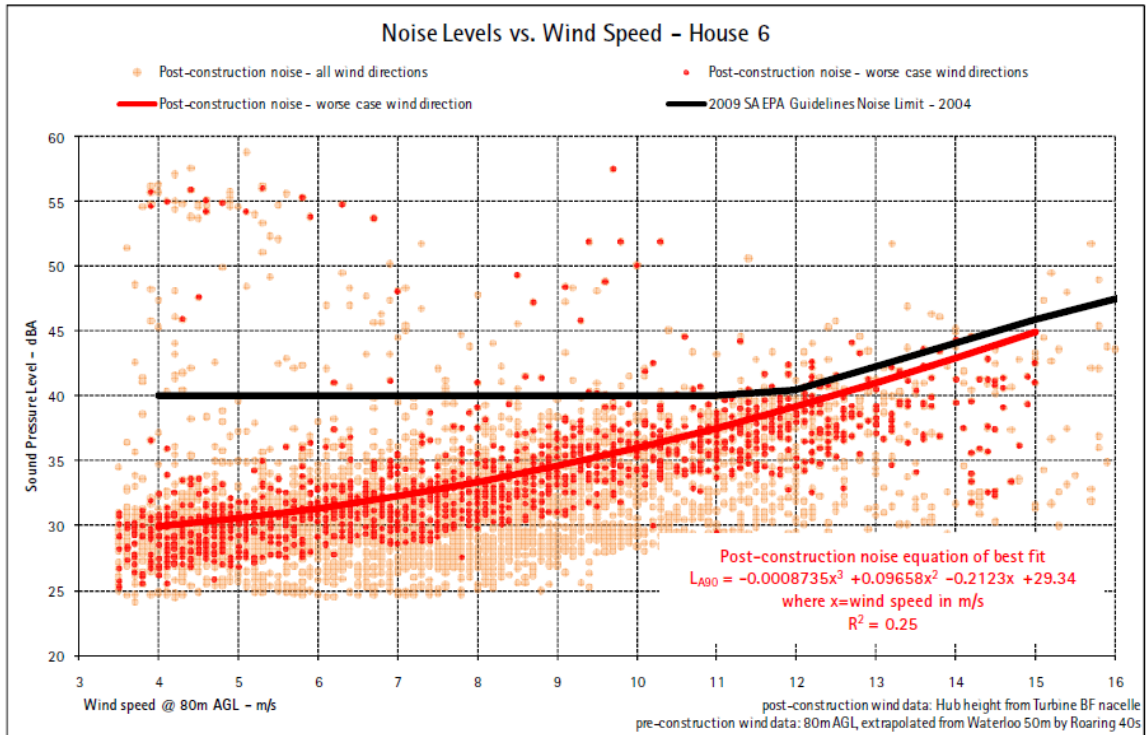


Figure 4: Post-construction noise levels vs. wind speed at House 6

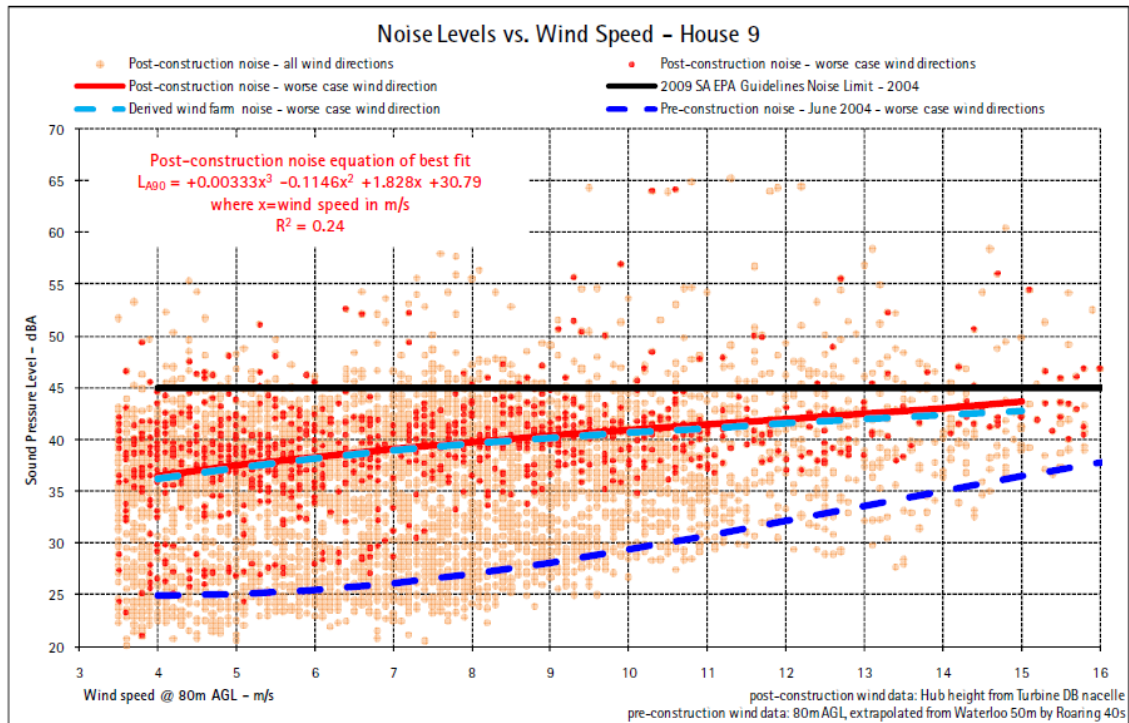


Figure 5: Post-construction noise levels vs. wind speed at House 9

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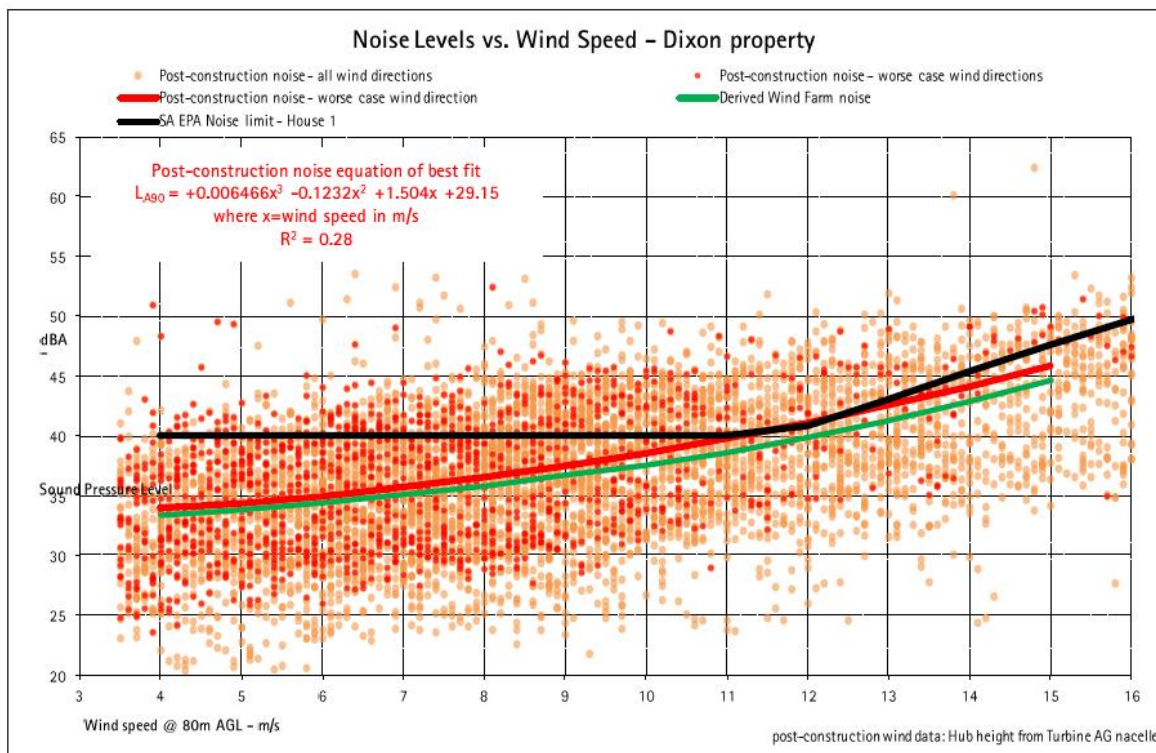


Figure 3: Post-construction noise levels vs. wind speed at the Dixon property