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**Ref:** Castle Changes/V3

Savannah Environmental (Pty) Ltd  
PO Box 148  
SUNNINGHILL  
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**Attention: Mr. John von Mayer**

Dear Sir

**SPECIALIST STUDY: NOISE IMPACT ASSESSMENT: PROPOSED CASTLE WIND ENERGY FACILITY NEAR DE AAR: CHANGE OF LAYOUT**

The above-mentioned issue and report SE-JCWEF/ENIA/201408-Rev 0 dated September 2014 is of relevance.

Enviro-Acoustic Research cc was commissioned to undertake a specialist study to determine the potential noise impact on the surrounding sound environment due to the establishment of the proposed Castle Wind Energy Facility (WEF) just east of the town of De Aar in the Northern Cape Province. The facility is to be developed by Juwi Renewable Energies (Pty) Ltd.

Considering the sound power emission levels of the Vestas V117 3.3 MW wind turbine, this assessment indicated that the potential significance of the noise impact would be **low** during both the construction and operational phases. This wind turbine has a maximum sound power emission level of 104 dBA at a wind speed of 8 m/s and noise levels from the turbines were projected less than 38 dBA at the closest receptors.

The developer currently is considering using the Enercon E-141, a wind turbine with a maximum sound power emission level of 105.5 dBA (at wind speeds exceeding 8 m/s).

Considering the noise levels as modeled previously as well as the increased noise emission levels (1.5 dB higher), it is my opinion that the changes will not significantly increase noise levels (from the levels modeled) at the identified potential noise-sensitive receptors.

The noise magnitude (as well as probability of an impact occurring) would stay the same, or slightly reduce and the significance of the potential noise impact would remain **low**. It will therefore not be necessary to review the report, findings, recommendations and conclusions of the latest report.

Should you require any further details, or have any additional questions, please do not hesitate to call me on the above numbers.

Yours Faithfully,

Morné de Jager  
Enviro-Acoustic Research cc