Changes in SA EPA infrasound measurements INSIDE and OUTSIDE houses during on/off testing at Waterloo in 2013 M Morris May 2015

SA EPA measurements clearly show that the wind turbines are producing infrasound when operating and that the levels drop significantly when the turbines are turned off.

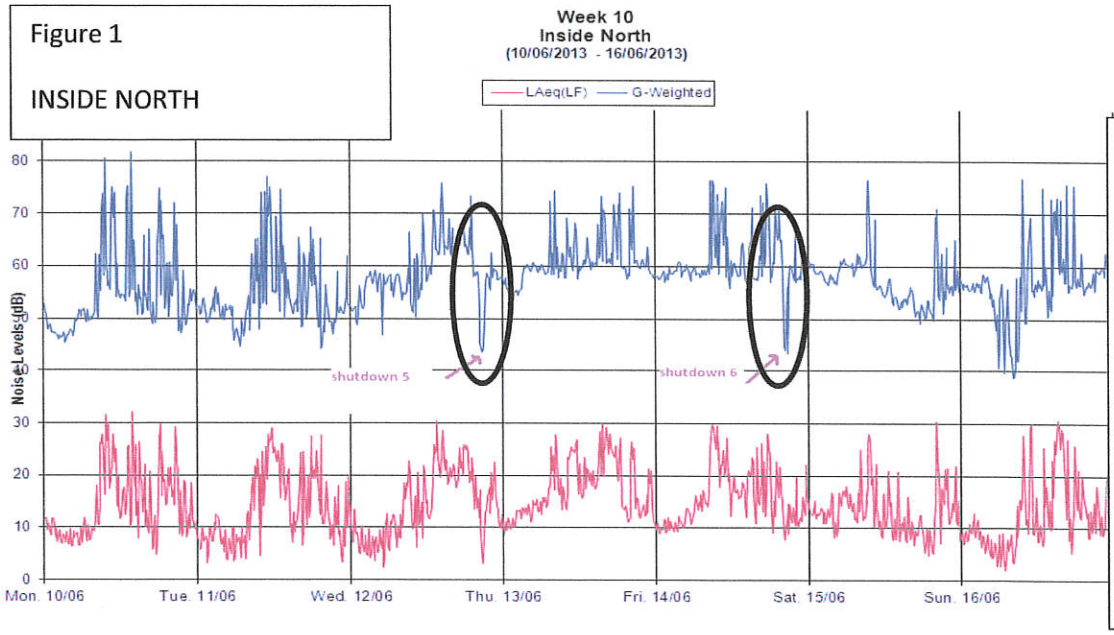
GRAPHS sourced from SA EPA Waterloo noise study 2013.

Note: **NORTH house is 1.3 km from the nearest turbine**

and **TOWNSHIP house is 3.2 km from the nearest turbine.**

Figure 1

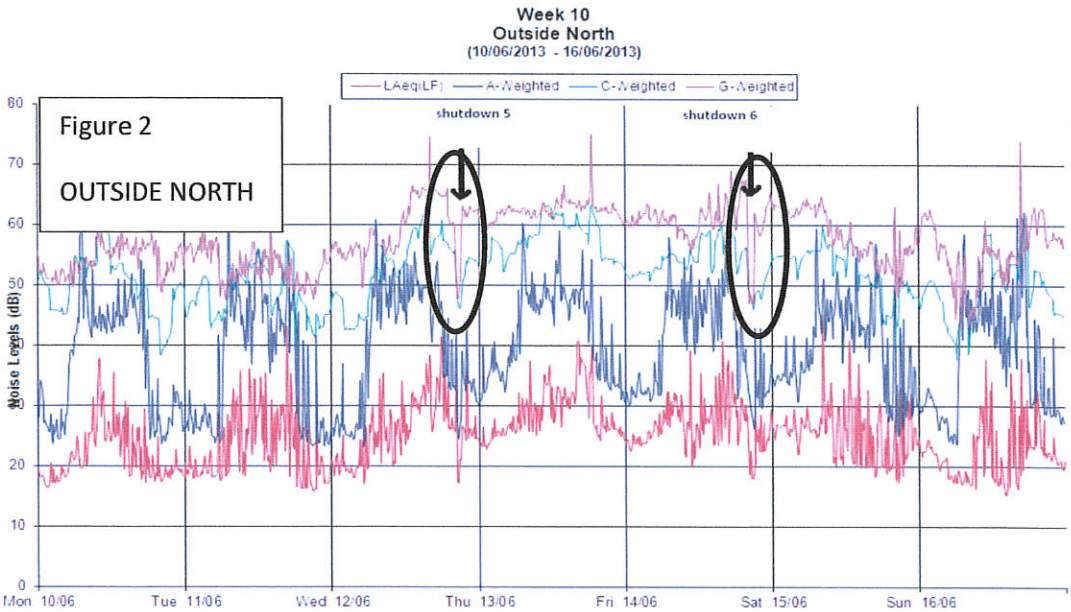
INSIDE NORTH



Infrasound (blue line) drops when the turbines are turned off and rises when turbines are operating again 40 - 50 minutes later.

Figure 2

OUTSIDE NORTH



Infrasound (pink line) drops when the turbines are turned off and rises when turbines are operating again 40 - 50 minutes later.

Figure 3 Changing Infrasound and dBA levels during on/off testing TOWNSHIP

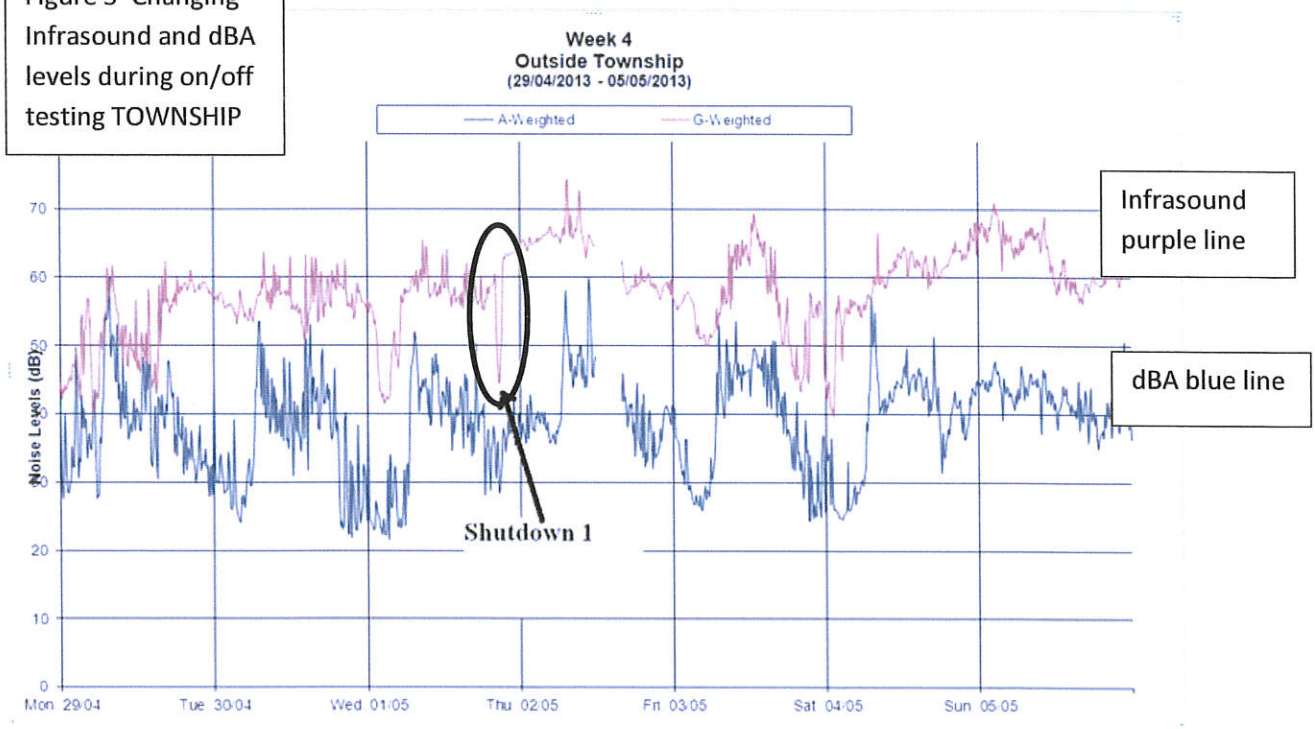


Figure 3.

SA EPA measures changing Infrasound levels during shutdown 1 at Township house. 3.2 km from the nearest turbine.

Note also that the blue line dBA levels do not show the same dramatic drop when the turbines are turned off which supports the argument that dBA weightings are not appropriate for all aspects of the wind turbine sound spectrum and **cannot be relied upon to protect residents amenity from low frequency noise impacts. Note that this house is 3.2 km from the nearest turbine. GRAPH source SA EPA**

The existing SA EPA wind farm noise guidelines 2009 are outdated and at odds with their own measurements in that the 2009 guidelines still state that :

"The EPA has consulted the working group and completed an extensive literature search but is not aware of infrasound being present at any modern wind farm site. "

Clearly there is an urgent need for review and update of the SA wind farm noise guidelines to ensure that low frequency noise and infrasound levels are more accurately measured and reported .

M Morris 2015