

Noise Assessment

How is wind farm noise predicted?

Wind farm noise is predicted in the following way:

Measure the background noise levels in the area at a range of wind speeds.

Impose the turbine manufacturer's warranted noise levels on the measured background noise levels at a range of wind speeds under worst case conditions.

Check that the combined noise levels meet the relevant noise limits in the form of ETSU-R-97 guidance on noise from wind farms.

The ETSU guidance sets the following limits at dwellings (the higher of):

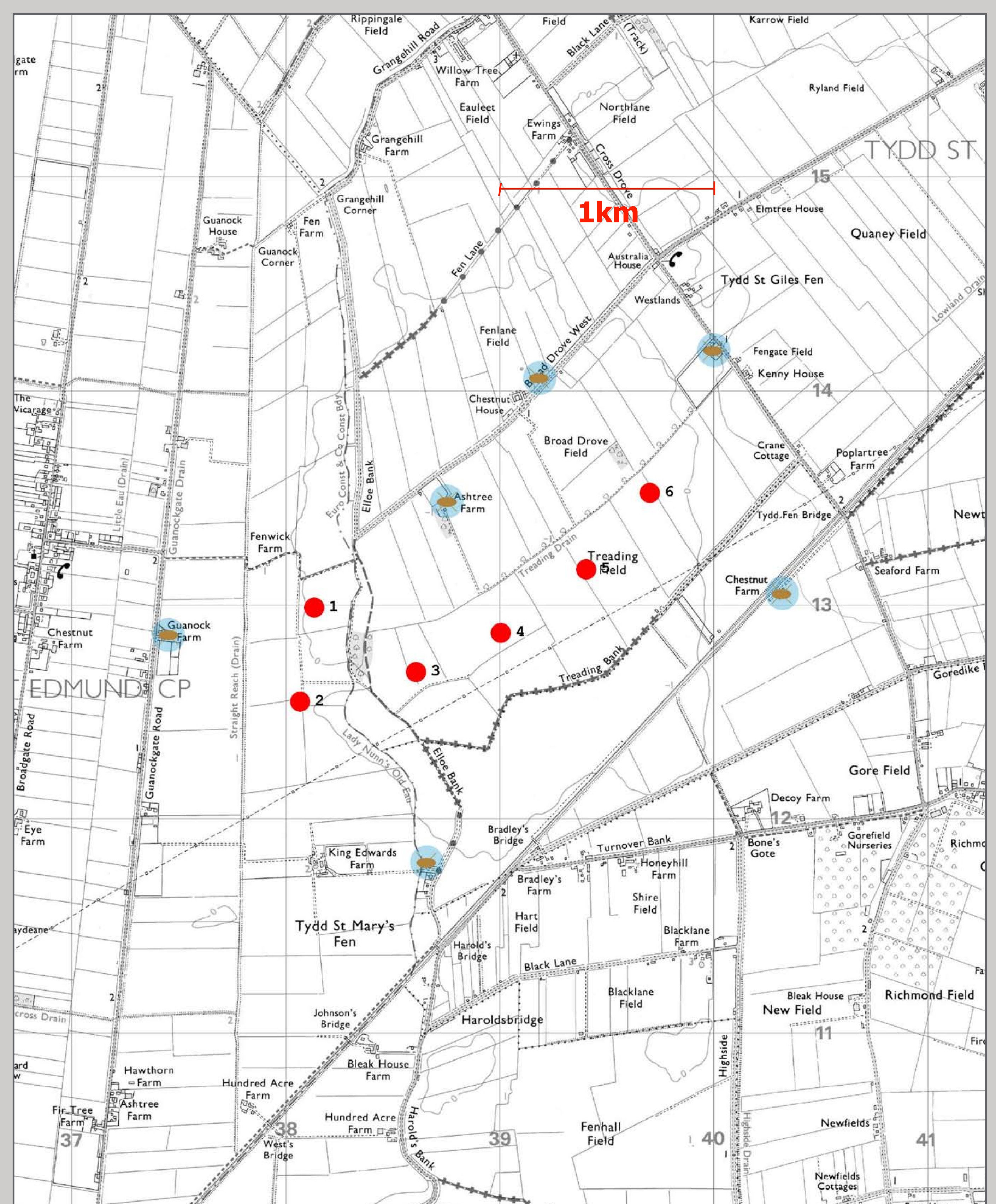
43dB(A) or 5dB(A) above the prevailing background noise for night-time periods (11pm-7am); and

35-40dB(A) or 5dB(A) above the prevailing background noise level at all other times.

The noise measurement locations for the proposed site are shown circled in blue on the plan opposite.

The proposed scheme will meet the noise guidelines at all surrounding properties.

Background noise measurement locations



Typical noise monitoring equipment as installed for two weeks to measure background noise levels.