



## **APPENDIX 12-7**

**BACKGROUND NOISE  
ANALYSIS**



### APPENDIX 12-7 - BACKGROUND NOISE ANALYSES

The following sections present an overview and results of the noise monitoring data obtained from the background noise survey in accordance with the methodology in the IOAGPG.

#### Location A (H310)

Knockshanvo Wind Farm - Loc A - 110.5 m HH - Quiet Waking Hours

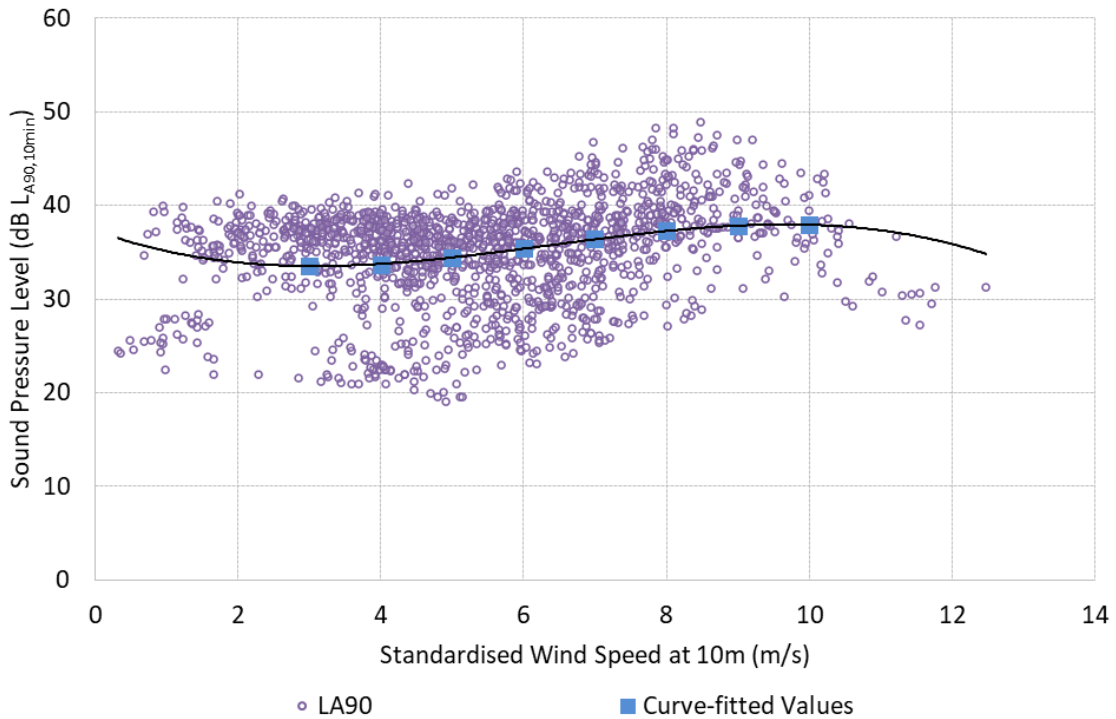


Figure 1 Location A (H310) Background Noise Levels LA90, 10 min dB – Daytime

Knockshanvo Wind Farm - Loc A - 110.5 m HH - Quiet Waking Hours

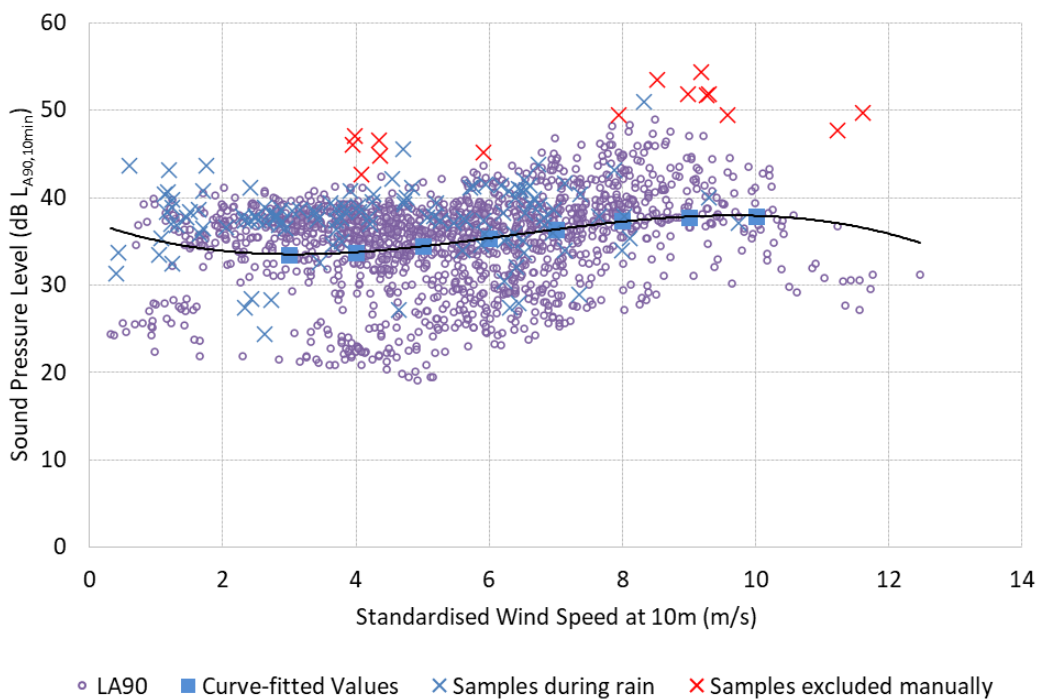


Figure 2 Location A (H310) Background Noise Levels LA90, 10 min dB – Daytime, with exclusions

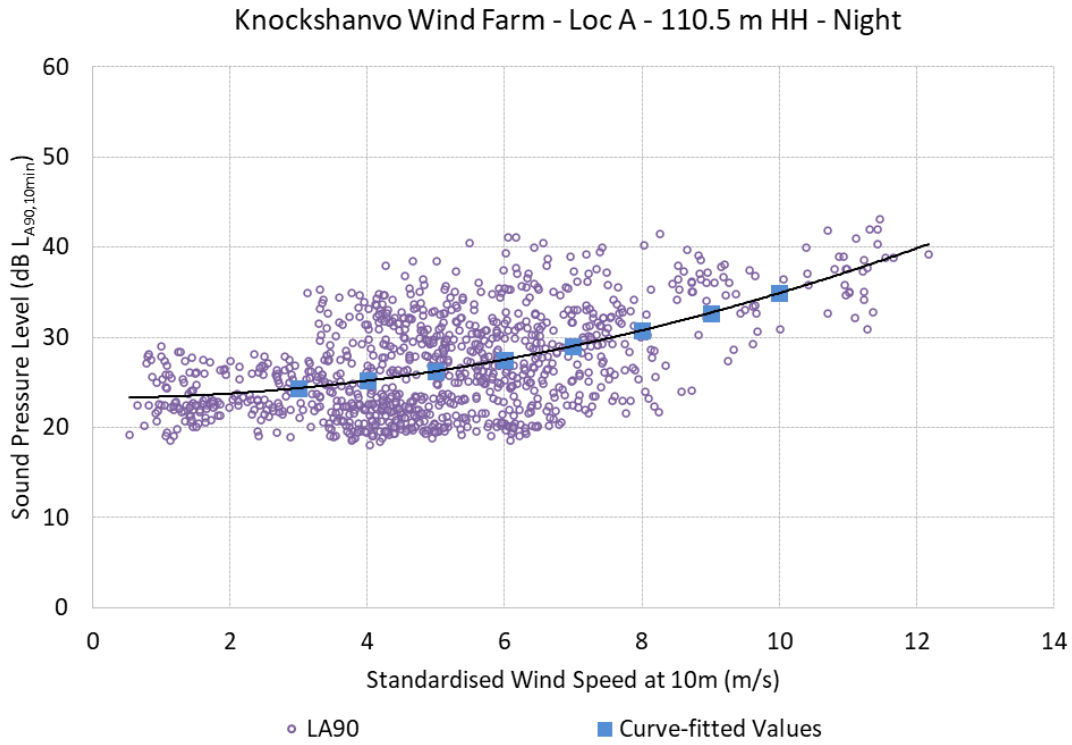


Figure 3 Location A (H310) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB –Night-time

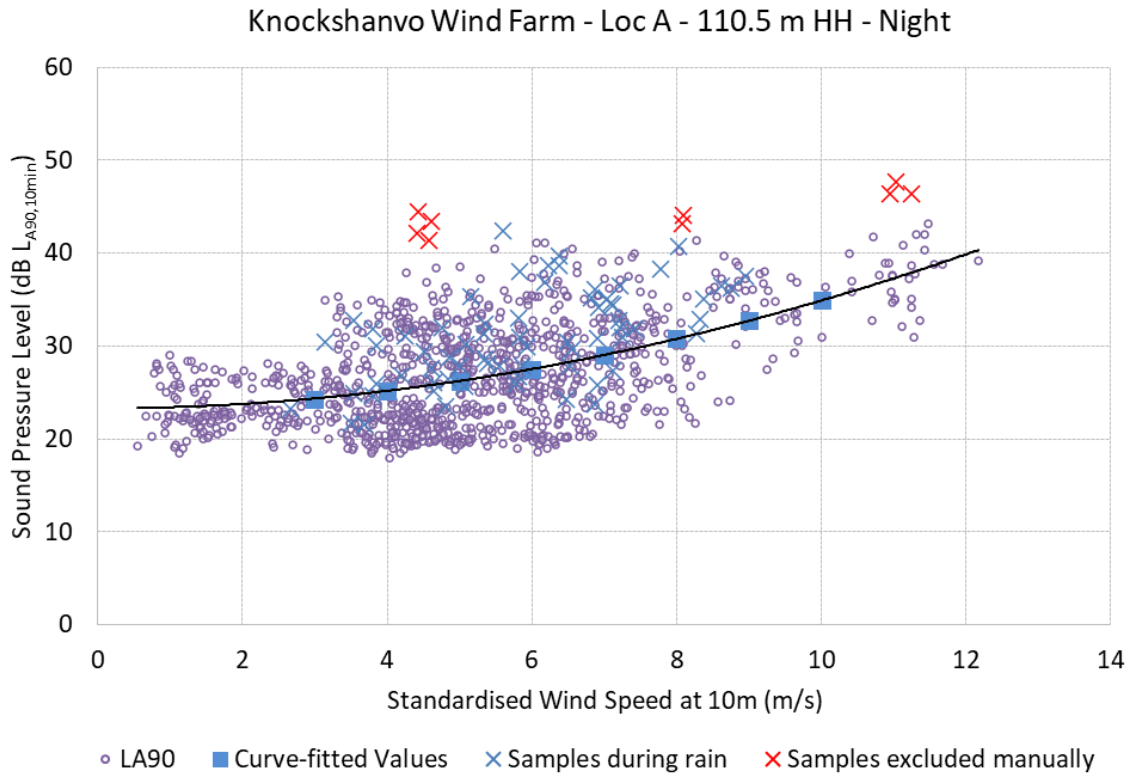


Figure 4 Location A (H310) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB –Night-time, with exclusions

**Location B (H493)**

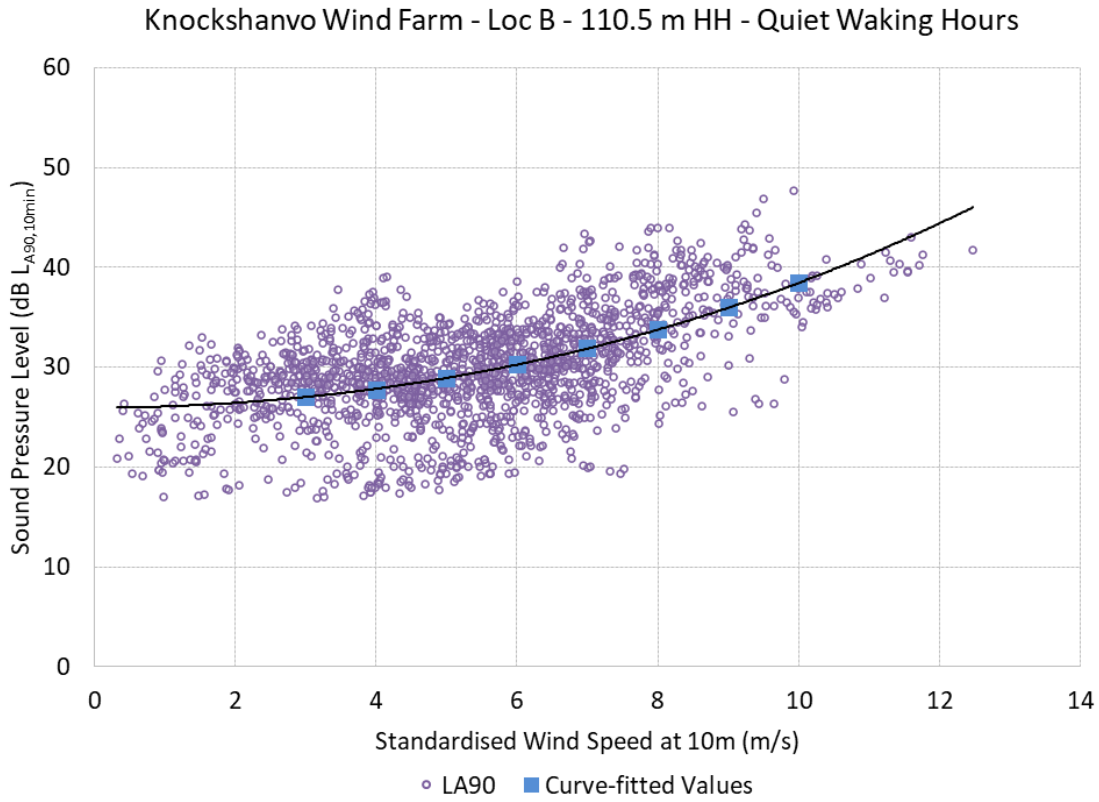


Figure 5      Location B (H493) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB – Daytime

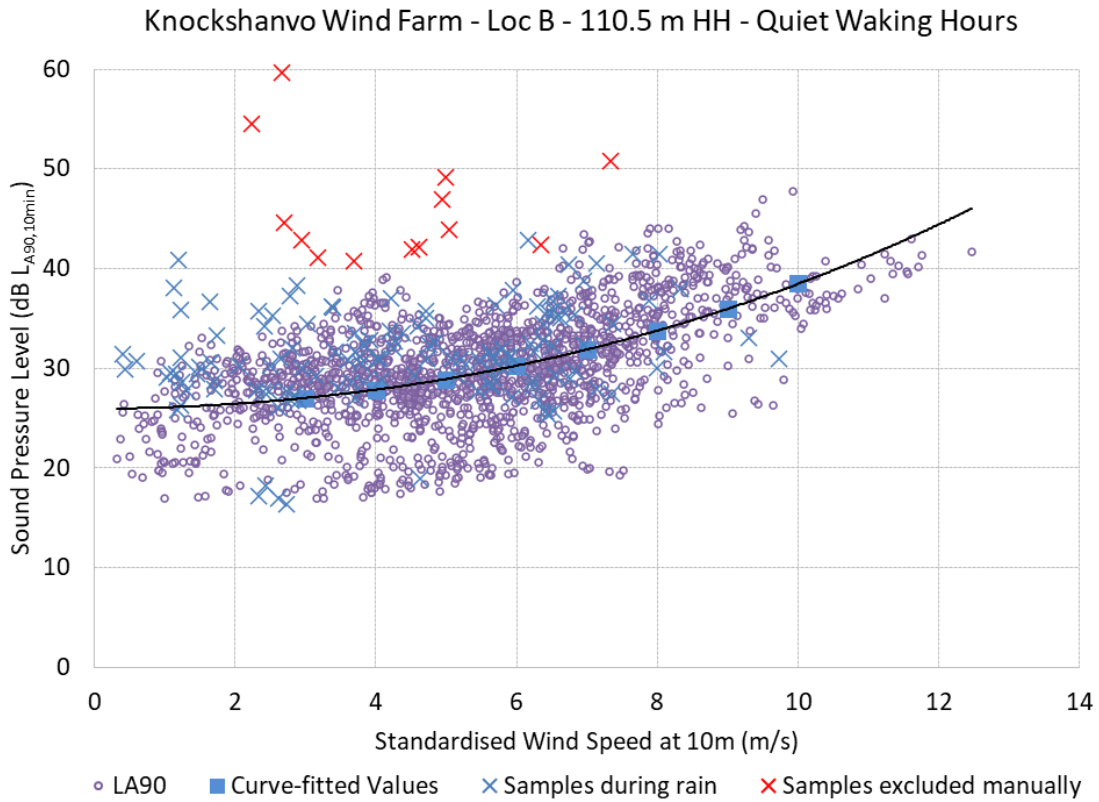


Figure 6      Location B (H493) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB – Daytime, with exclusions

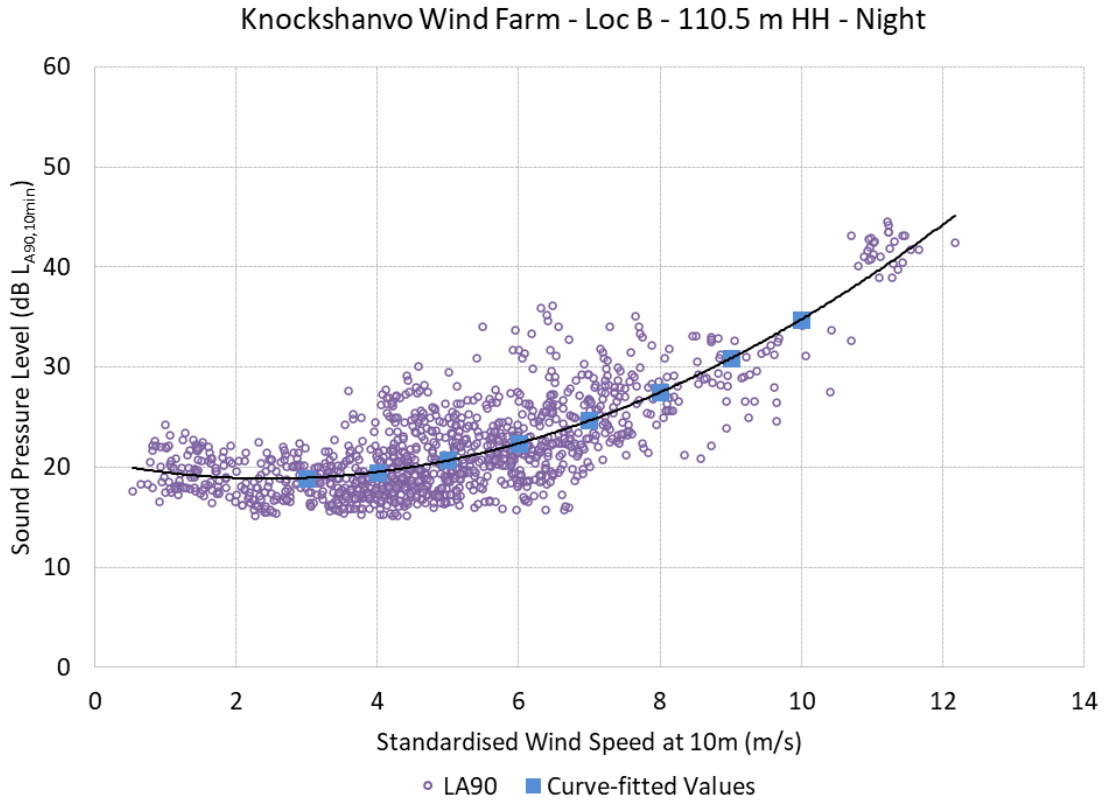


Figure 7 Location B (H493) Background Noise Levels  $L_{A90, 10 min}$  dB –Night-time

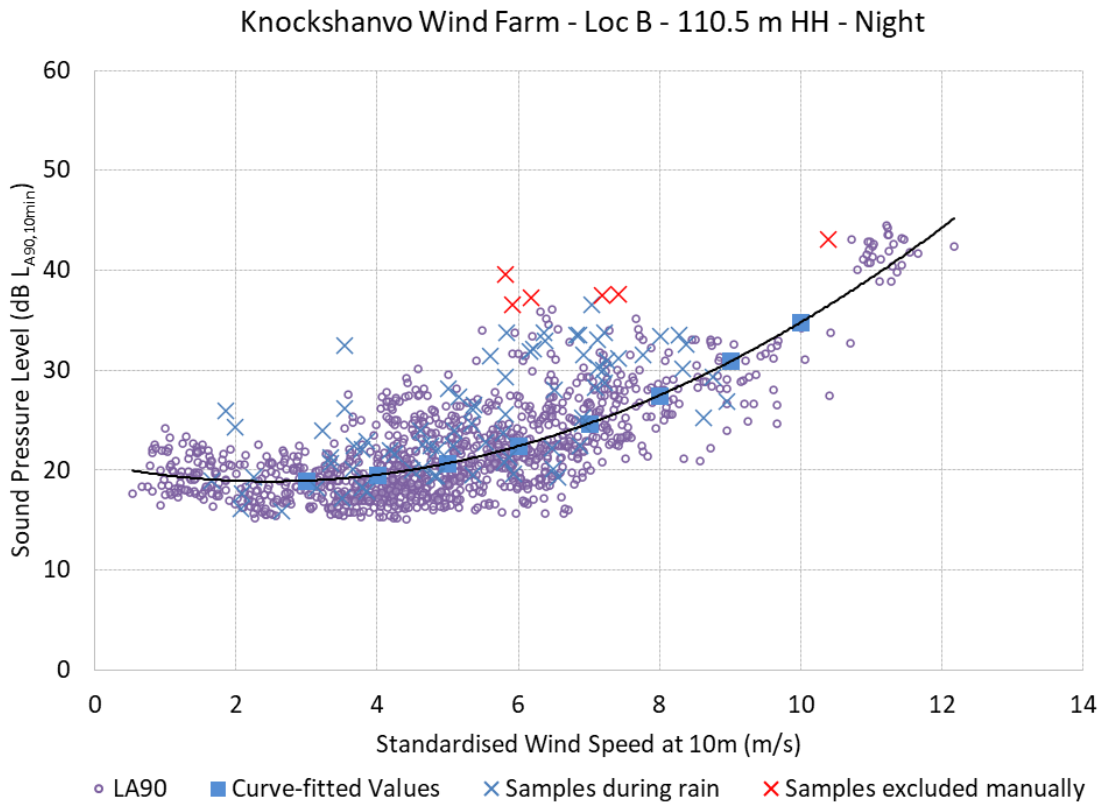


Figure 8 Location B (H493) Background Noise Levels  $L_{A90, 10 min}$  dB –Night-time, with exclusions

**Location C (H505)**

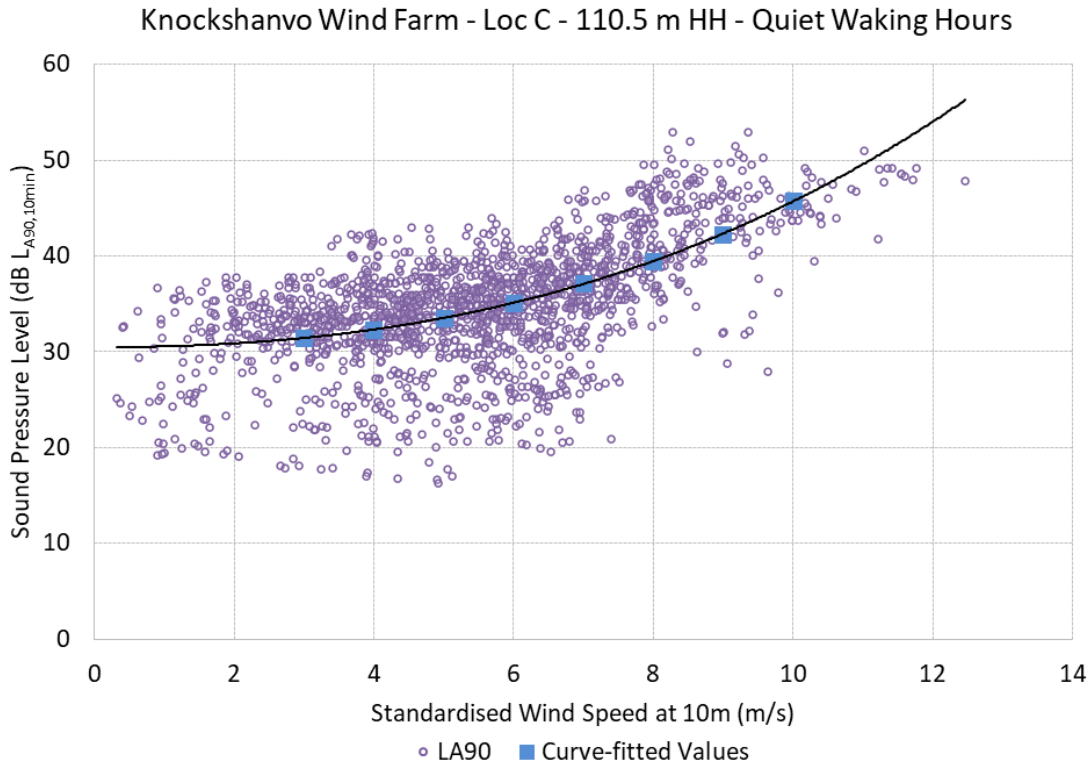


Figure 9 Location C (H505) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB –Daytime

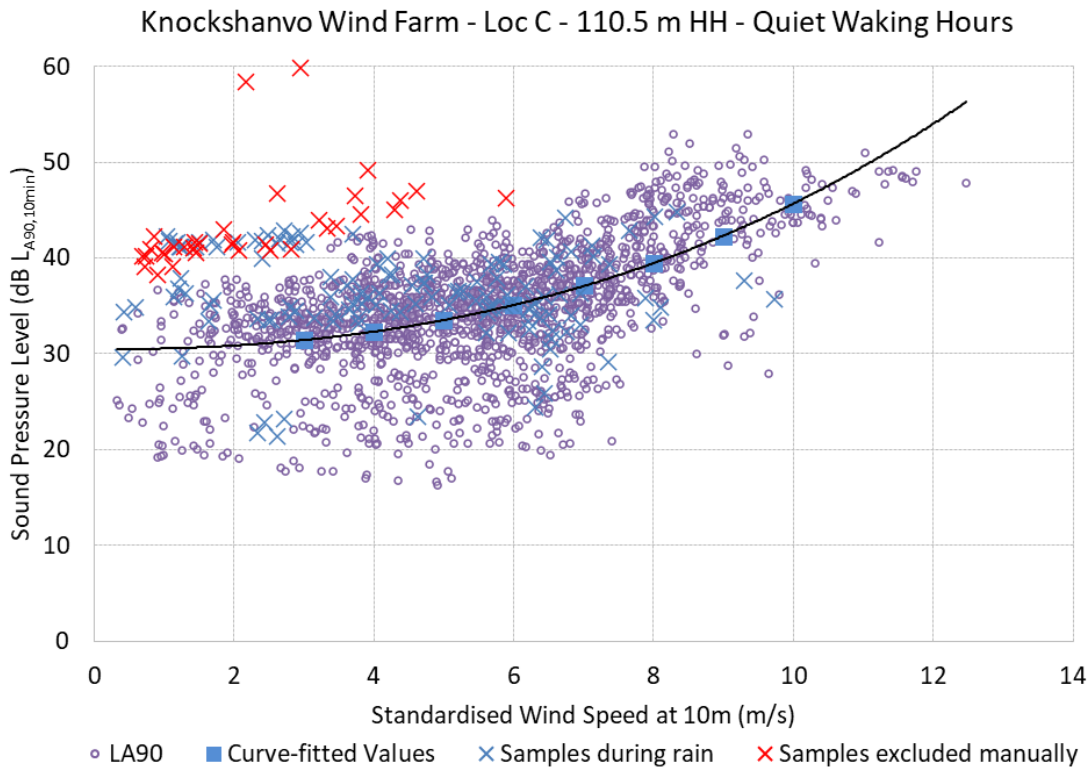


Figure 10 Location C (H505) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB –Daytime, with excusions

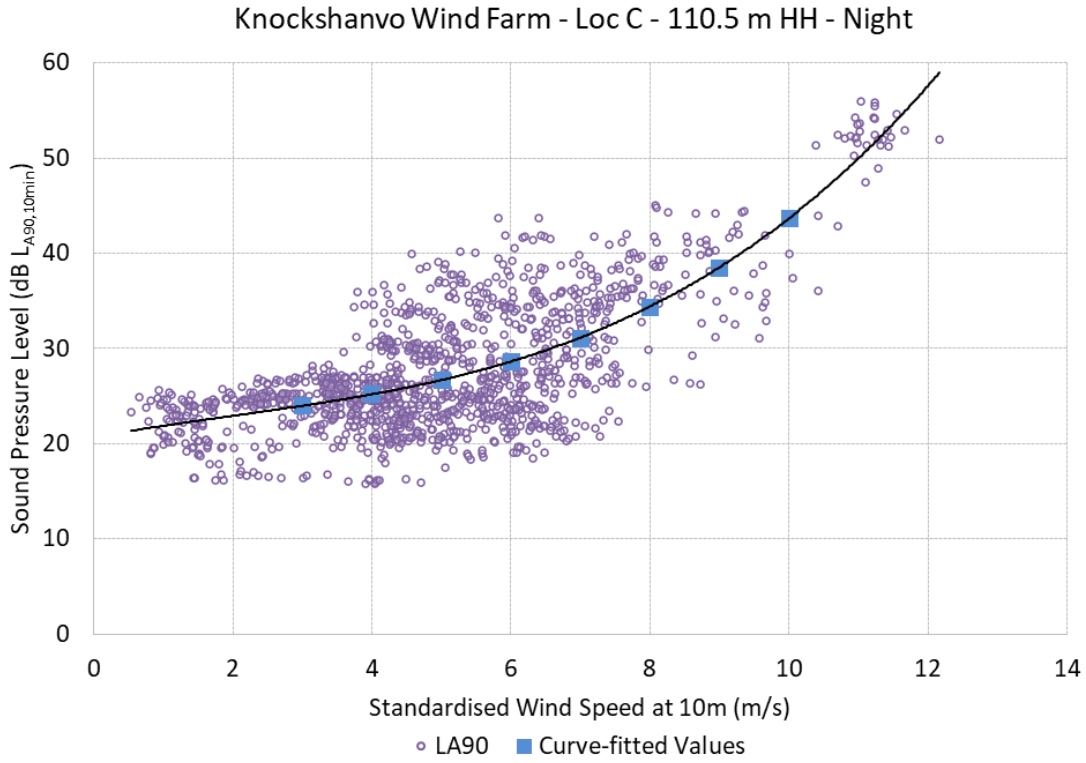


Figure 11 Location C (H505) Background Noise Levels  $L_{A90, 10 min}$  dB –Night-time

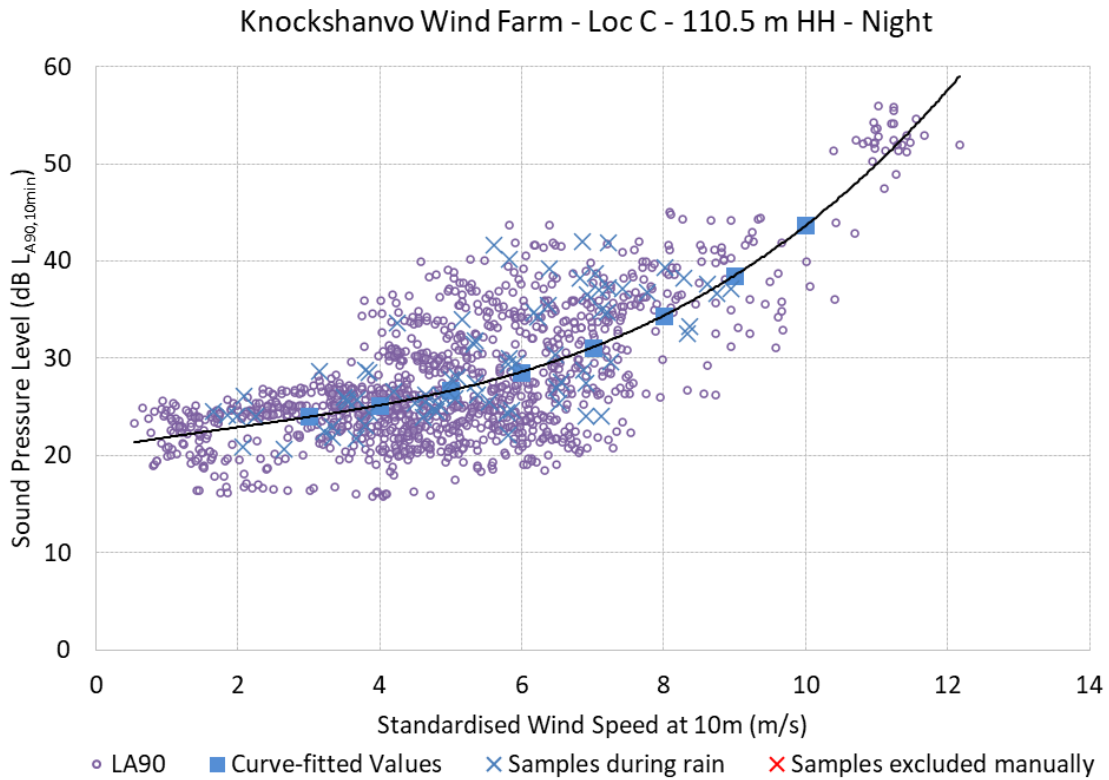


Figure 12 Location C (H505) Background Noise Levels  $L_{A90, 10 min}$  dB –Night-time, with exclusions



**Location D (H491)**

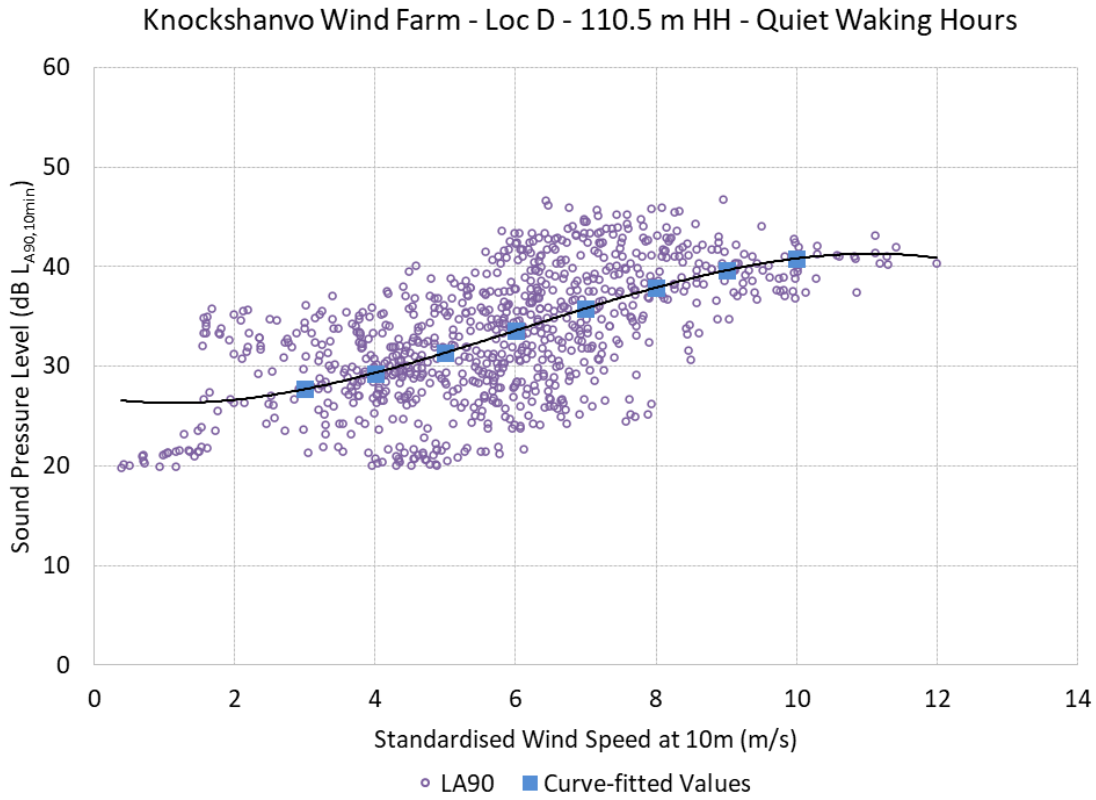


Figure 13      Location D (H491) Background Noise Levels  $L_{A90, 10 min}$  dB –Daytime

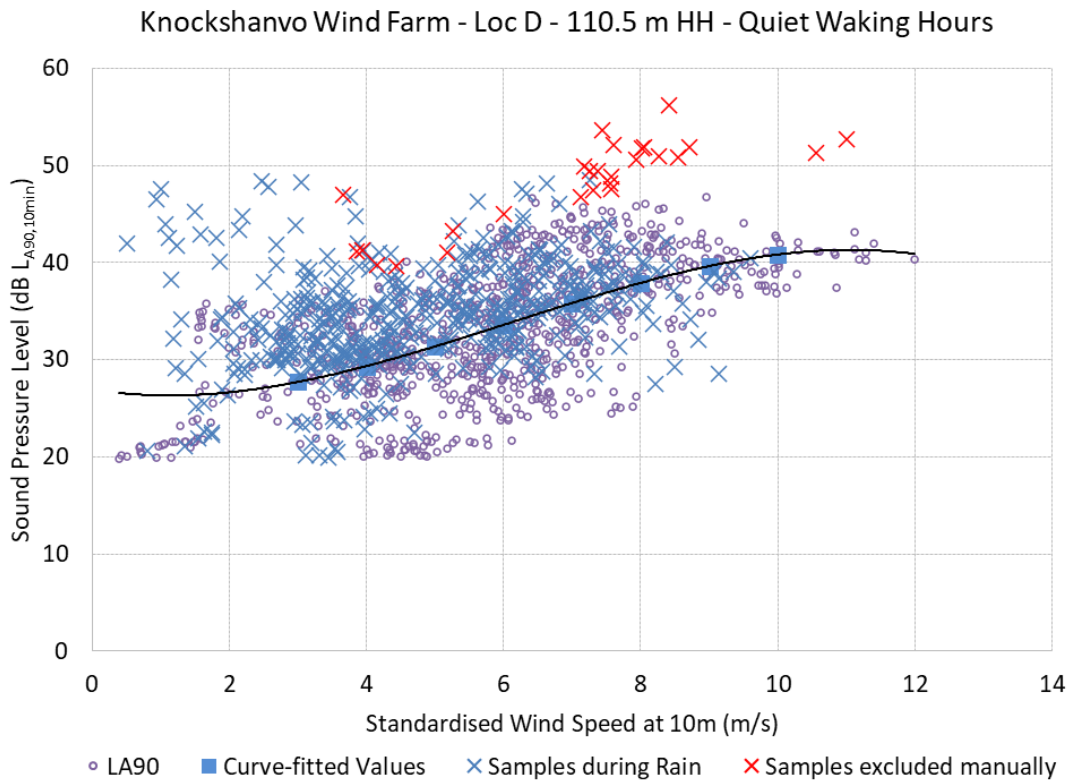


Figure 14      Location D (H491) Background Noise Levels  $L_{A90, 10 min}$  dB – Daytime, with exclusions

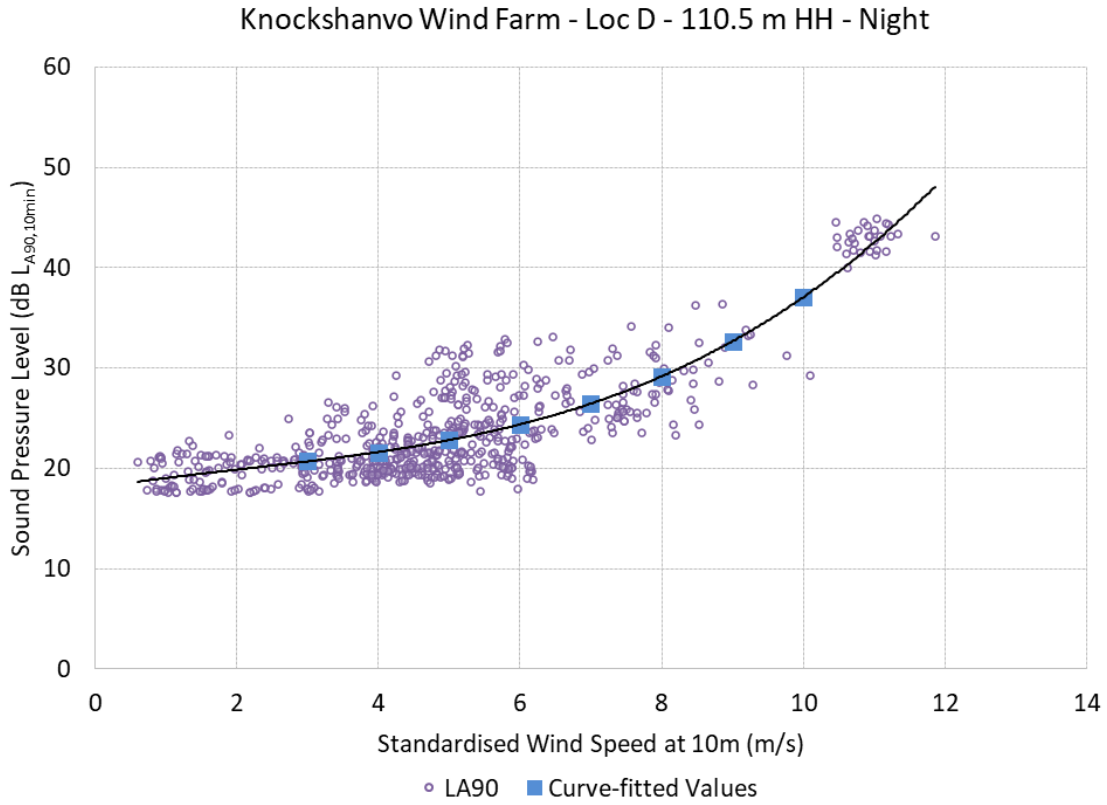


Figure 15 Location D (H491) Background Noise Levels  $L_{A90, 10 min}$  dB – Night-time

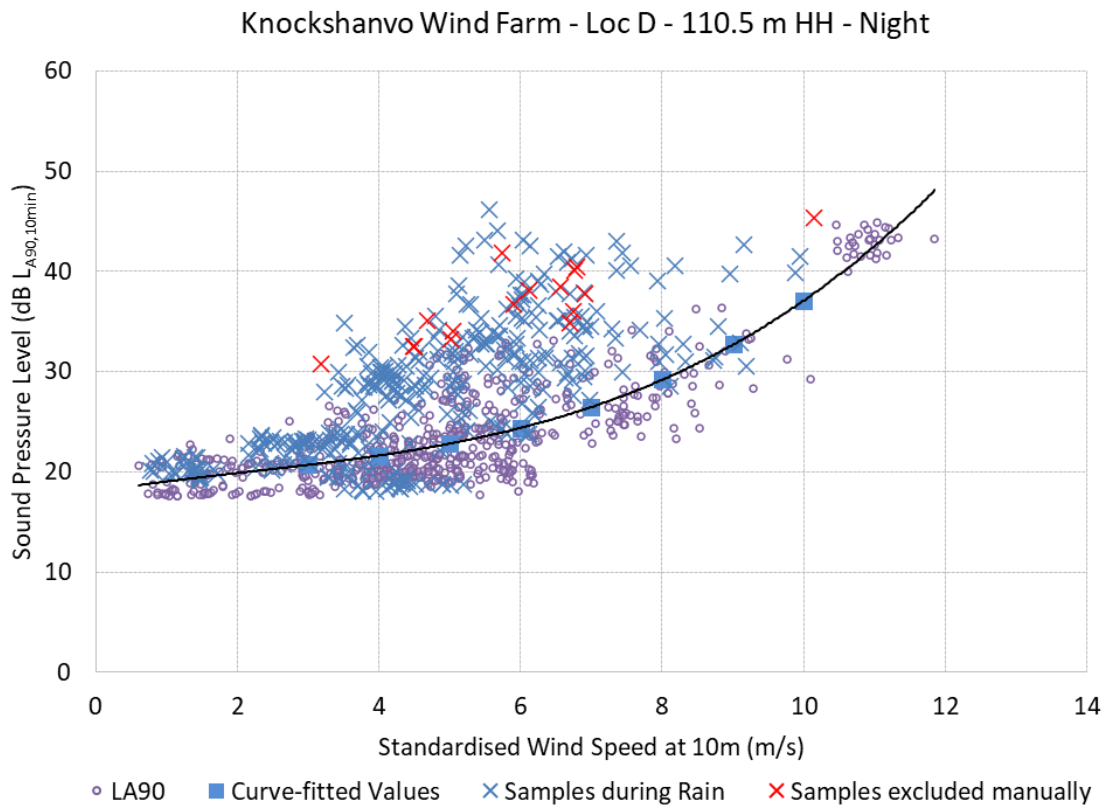


Figure 16 Location D (H491) Background Noise Levels  $L_{A90, 10 min}$  dB – Night-time, with exclusions

**Location E (H582)**

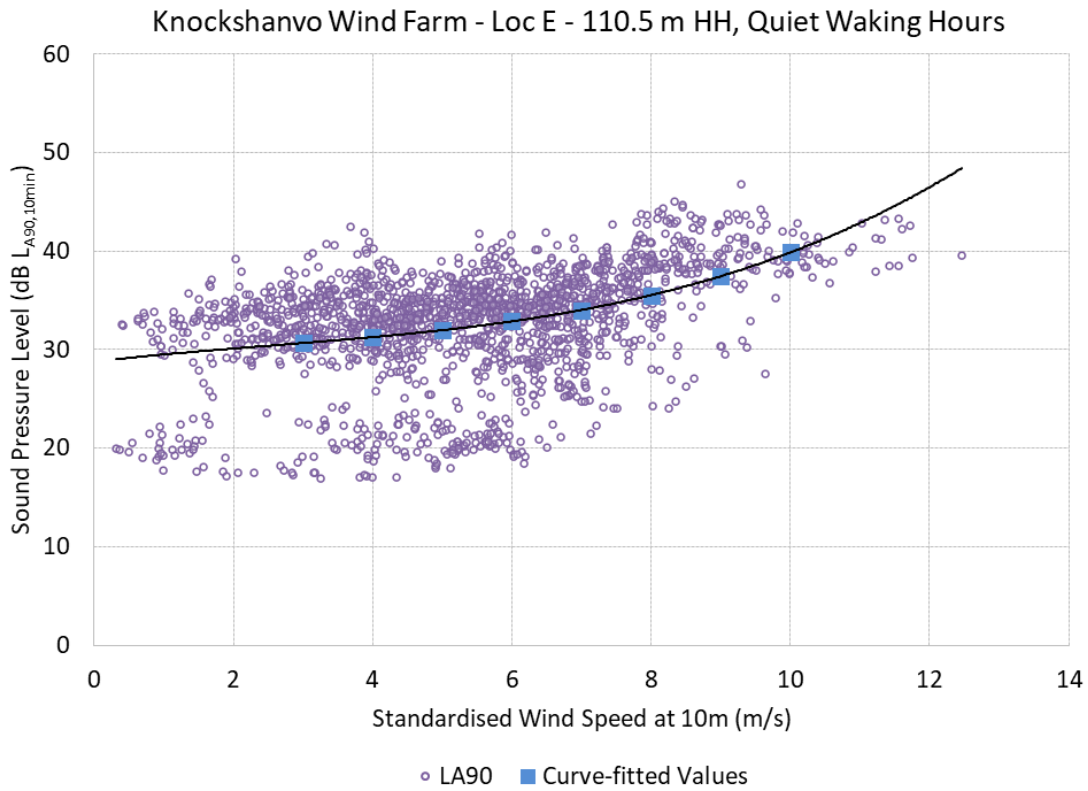


Figure 17 Location E (H582) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB –Daytime

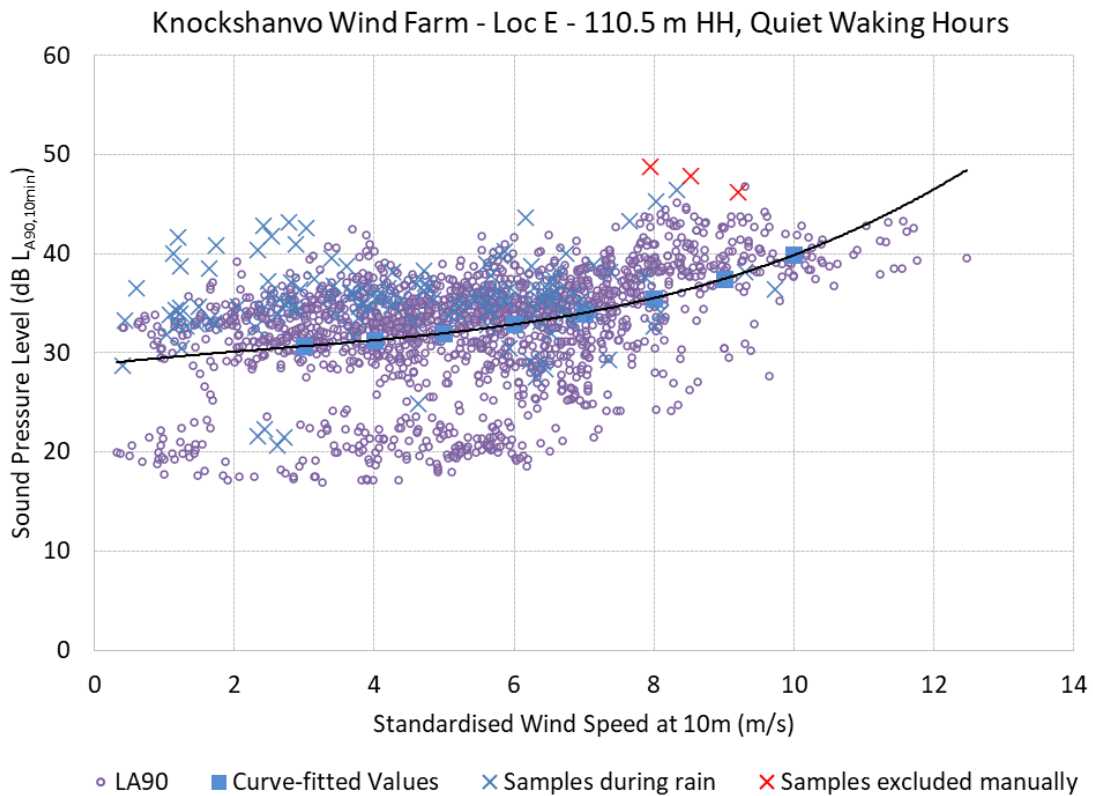


Figure 18 Location E (H582) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB – Daytime, with exclusions

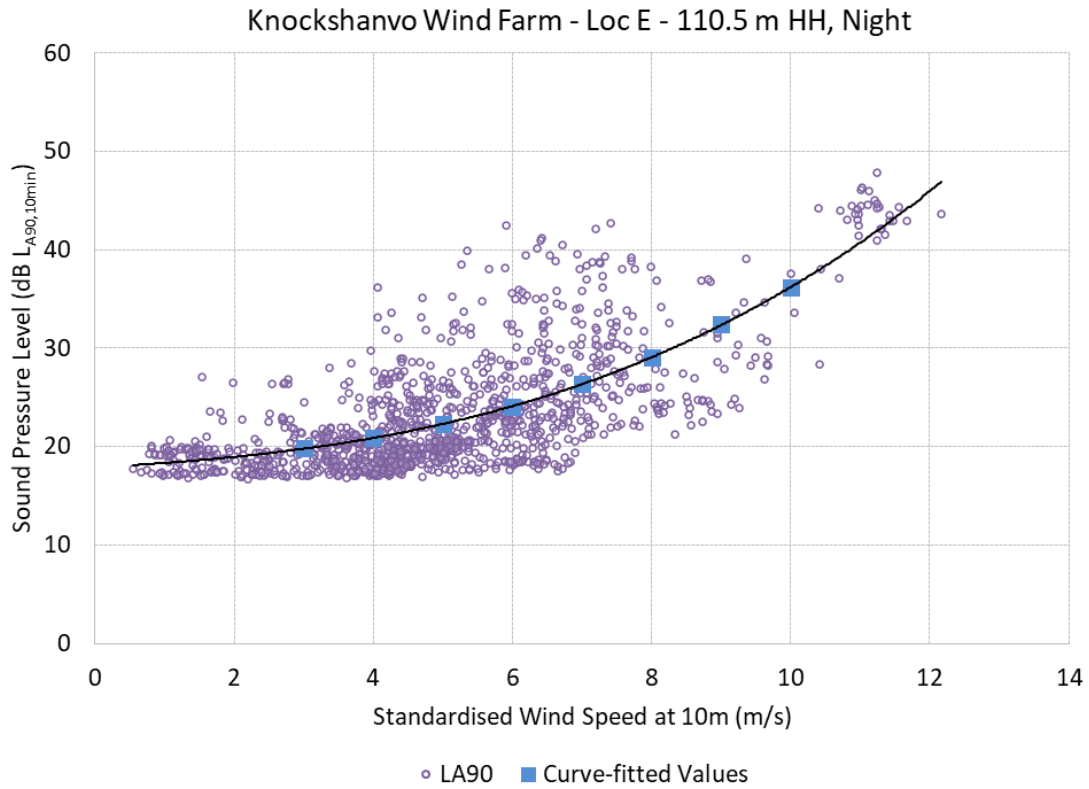


Figure 19 Location E (H582) Background Noise Levels LA90, 10 min dB – Night-time

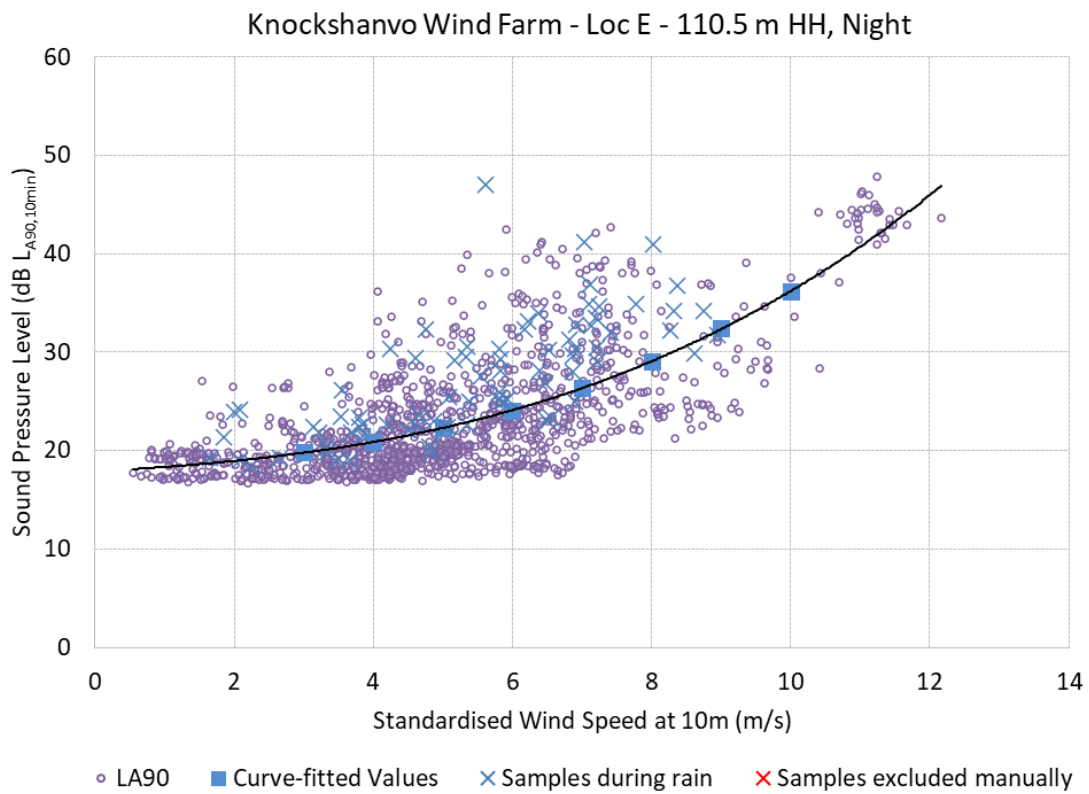


Figure 20 Location E (H582) Background Noise Levels LA90, 10 min dB – Night-time, with exclusions

**Location F (H427)**

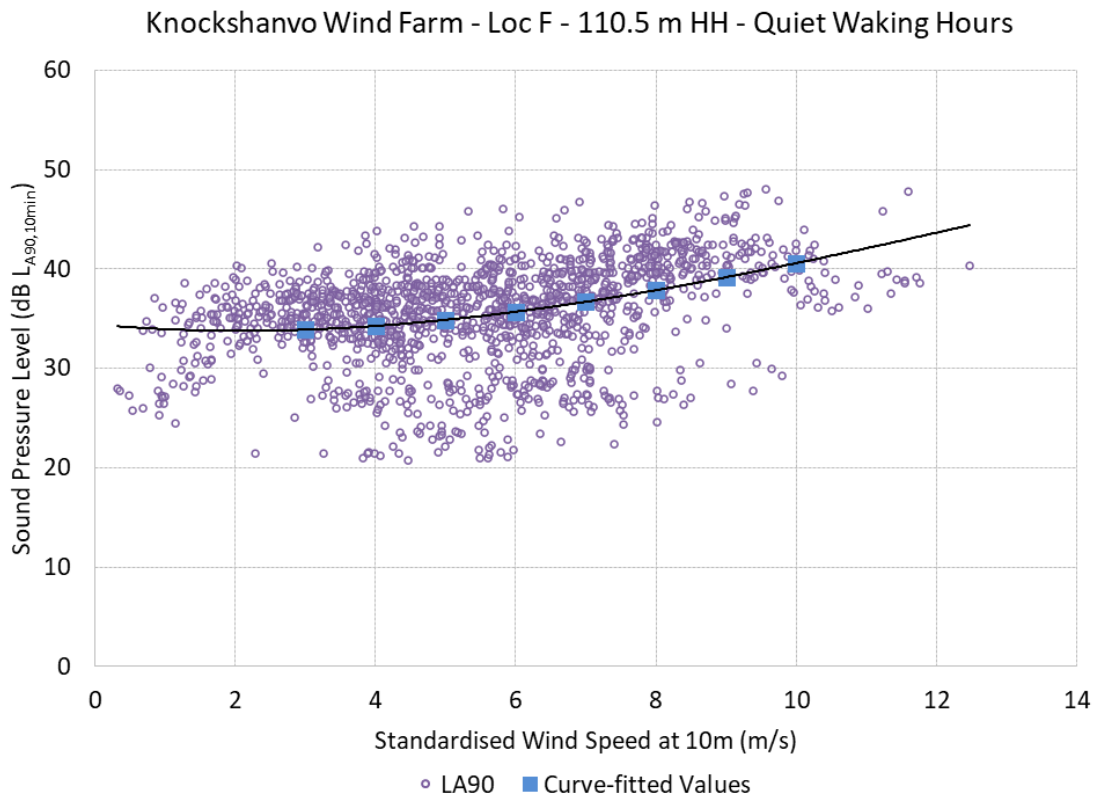


Figure 21      Location F (H427) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB –Daytime

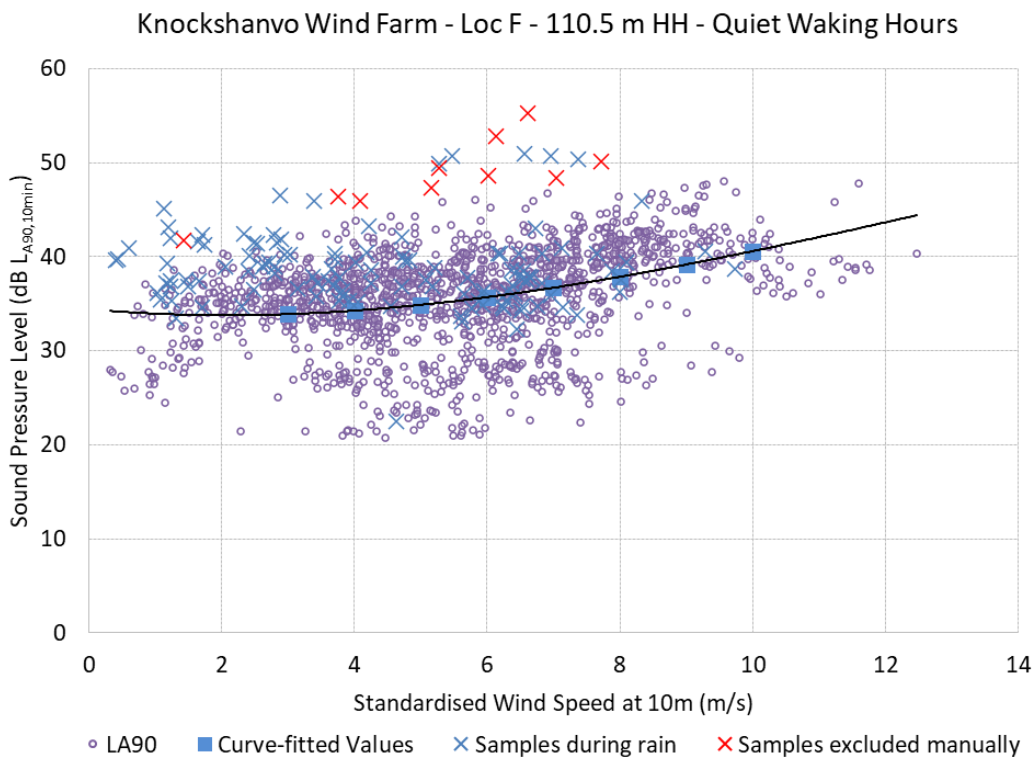


Figure 22      Location F (H427) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB – Daytime, with exclusions

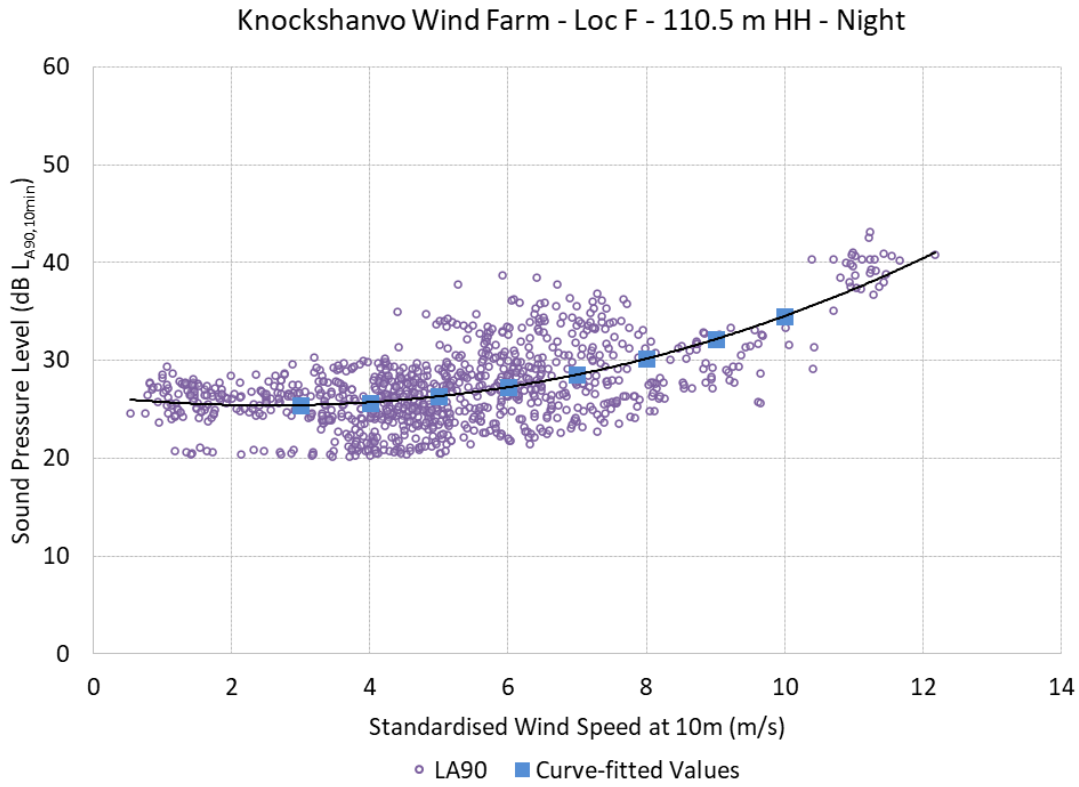


Figure 23      Location F (H427) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB – Night-time

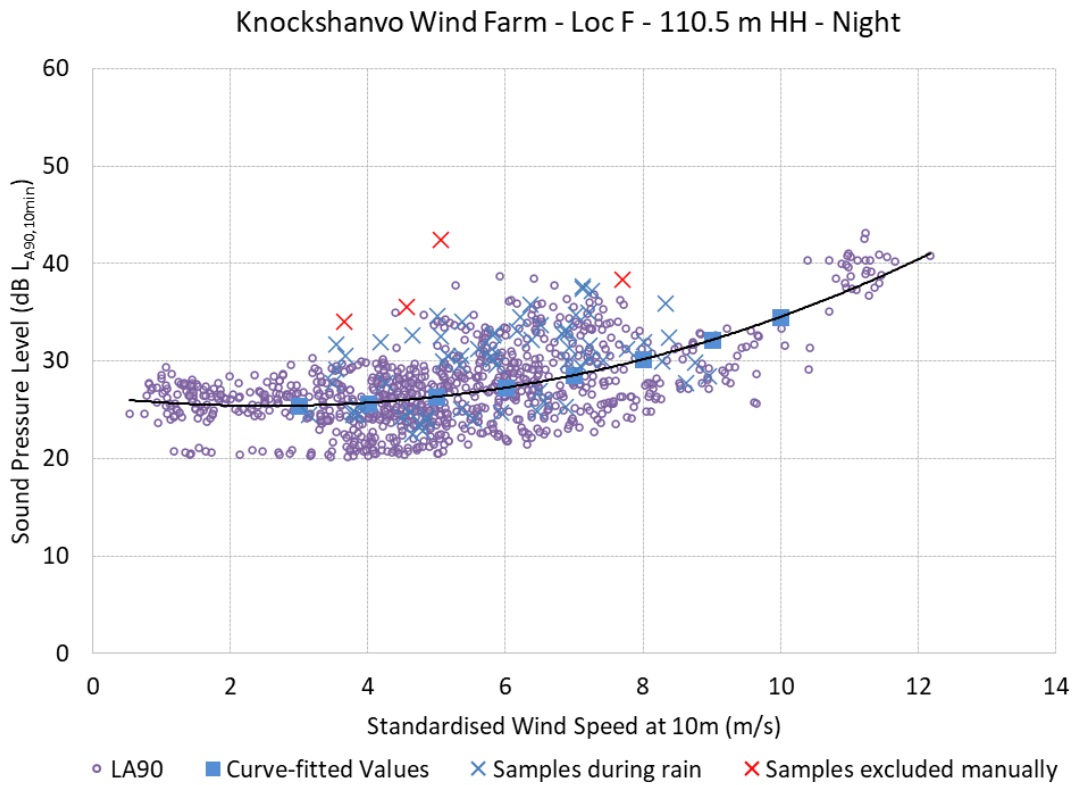


Figure 24      Location F (H427) Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB – Night-time, with exclusions

**Location G (H432)**

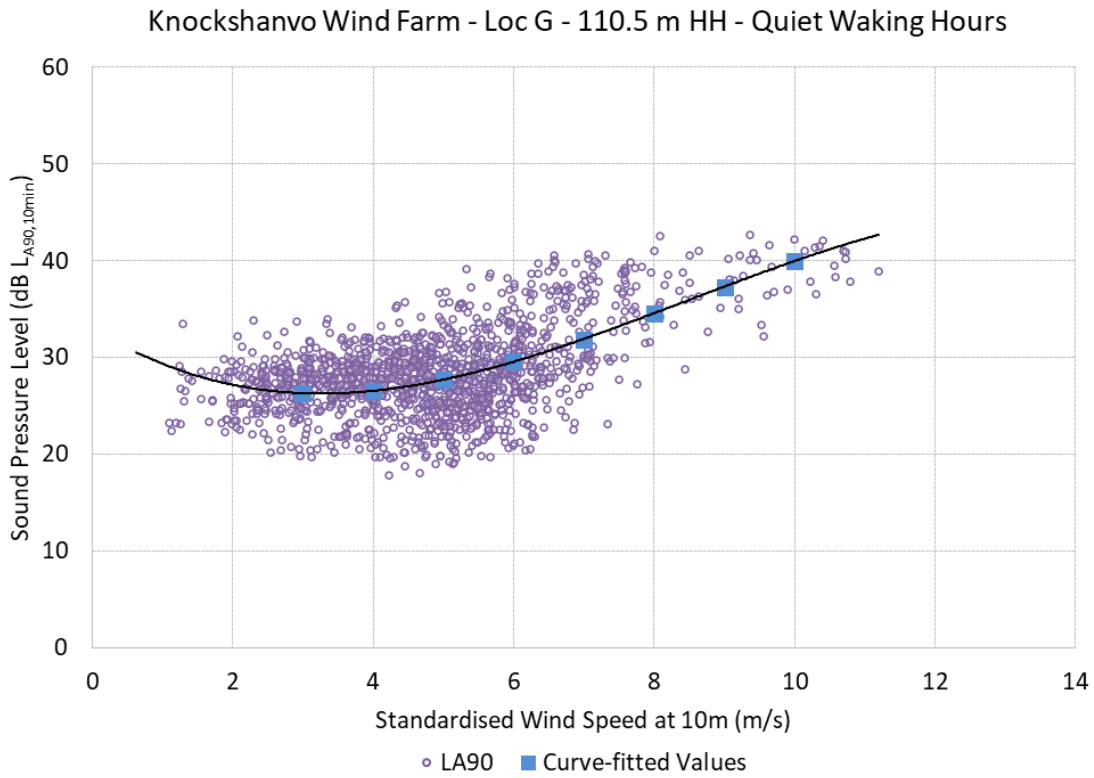


Figure 25      Location G Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB – Daytime

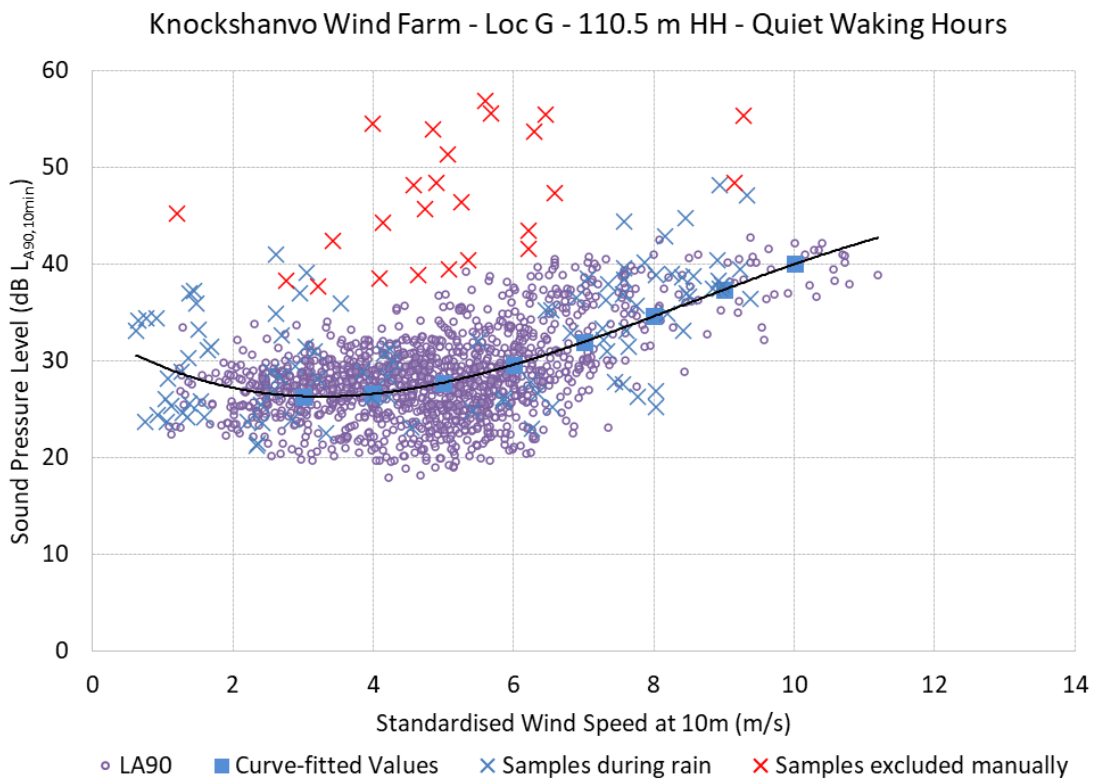


Figure 26      Location G Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB – Daytime, with exclusions

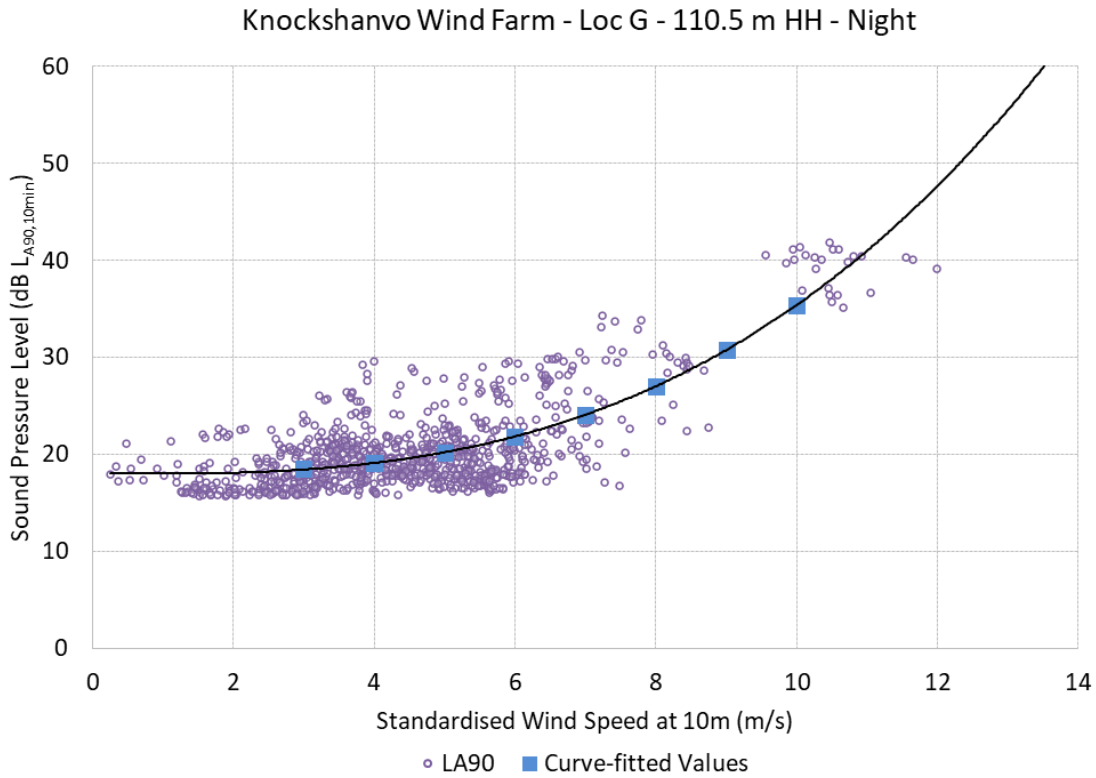


Figure 27 Location F Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB – Night-time

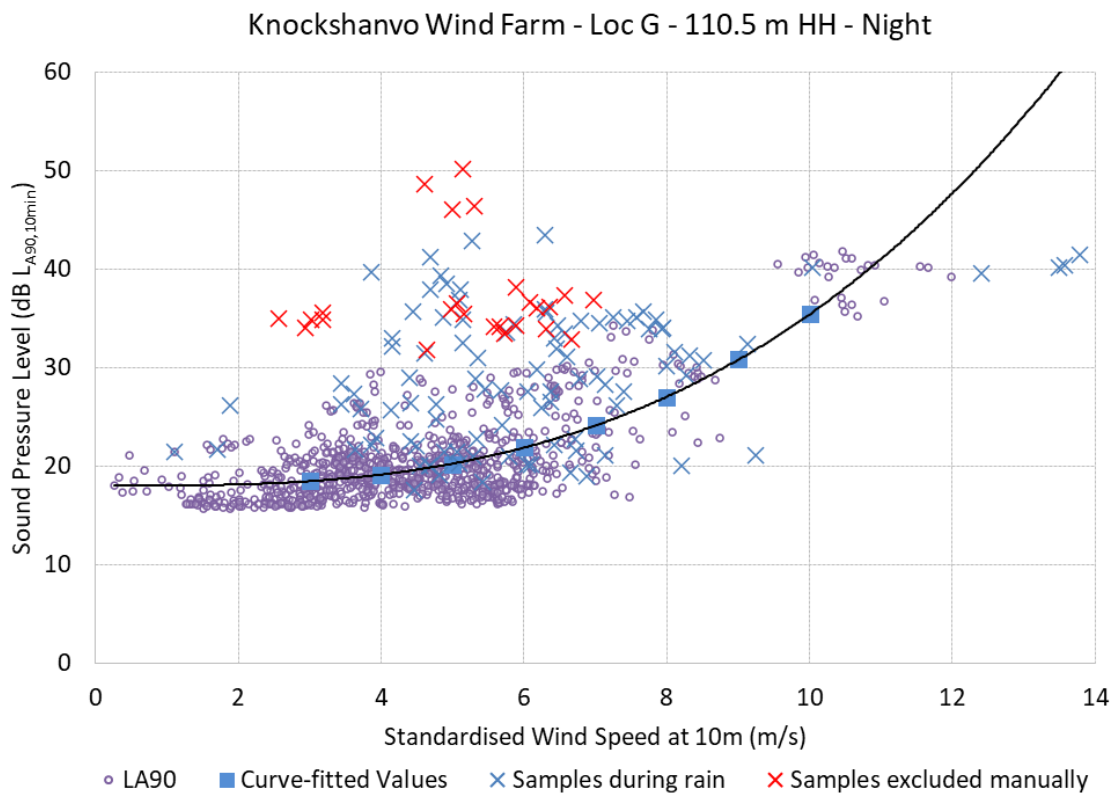


Figure 28 Location F Background Noise Levels  $L_{A90, 10 \text{ min}}$  dB – Night-time, with exclusions