

Appendix 11.1 – Environmental noise survey.

1. Methodology.

An environmental noise survey has been carried out by Hoare Lea from Wednesday 17th April 2025 to Monday 21st April 2025. During this time, long-term unattended measurements were carried out to determine the prevalent ambient and background sound levels across the site and surround area at position L1. These were supplemented by three attended measurement positions (P1-P3).

The survey measurement positions are shown in Figure 1.



Figure 1: Survey measurement positions (courtesy of Google Maps).

Road traffic noise from the M57 and Knowsley Lane provided clear and audible background noise at all noise monitoring locations. In and around the site are small, wooded areas and, as such, bird song was also audible on site.

2. Site condition and equipment.

2.1 Weather.

Weather reports for the area indicate that temperatures ranged between approximately 2 °C and 14 °C. Wind speeds were low, and periods of rain were not significant enough to impact the measurements.

The measured data is therefore considered suitable as being representative of typical conditions.

2.2 Equipment.

All equipment was within dates of calibration and calibration certificates are available on request.

Description	Serial Number	Calibration
Rion – Sound Level Meter: NL-52 Rion – Microphone: UC-59 Rion – Pre-amplifier: NH-25	00732162 16798 32190	08/03/2024
Rion – Sound Level Meter: NL-52 Rion – Microphone: UC-59 Rion – Pre-amplifier: NH-25	34172703 14887 88079	11/04/2025
Brüel & Kjær – Sound Level Meter: 2250 Brüel & Kjær – Microphone: 4189 Brüel & Kjær – Pre-amplifier: ZC-0032	3003815 2887159 29116	20/11/2023

Table 1: Equipment used during environmental surveys.

3. Results.

3.1 Unattended position 1.

Date	Ambient sound pressure levels measured at position L1, dB	
	Daytime (07:00-23:00)	Night-time (23:00-07:00)
17/04/2025	59	50
18/04/2025	56	48
19/04/2025	54	48
20/04/2025	55	49
21/04/2025	58	-

Table 2: Ambient noise levels measured at Position L1 during unattended measurements.

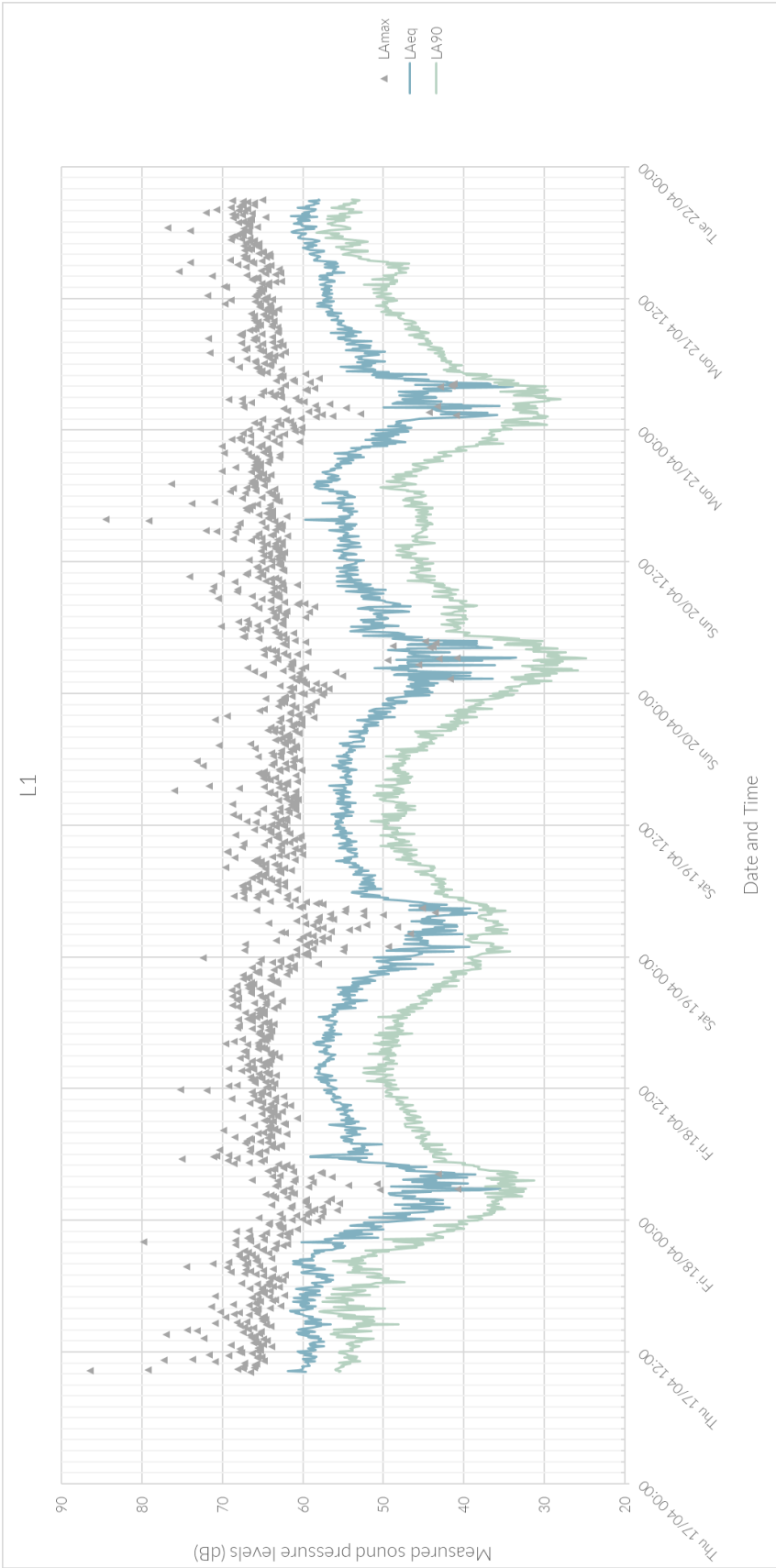


Figure 2: Time history at unattended Position L1.

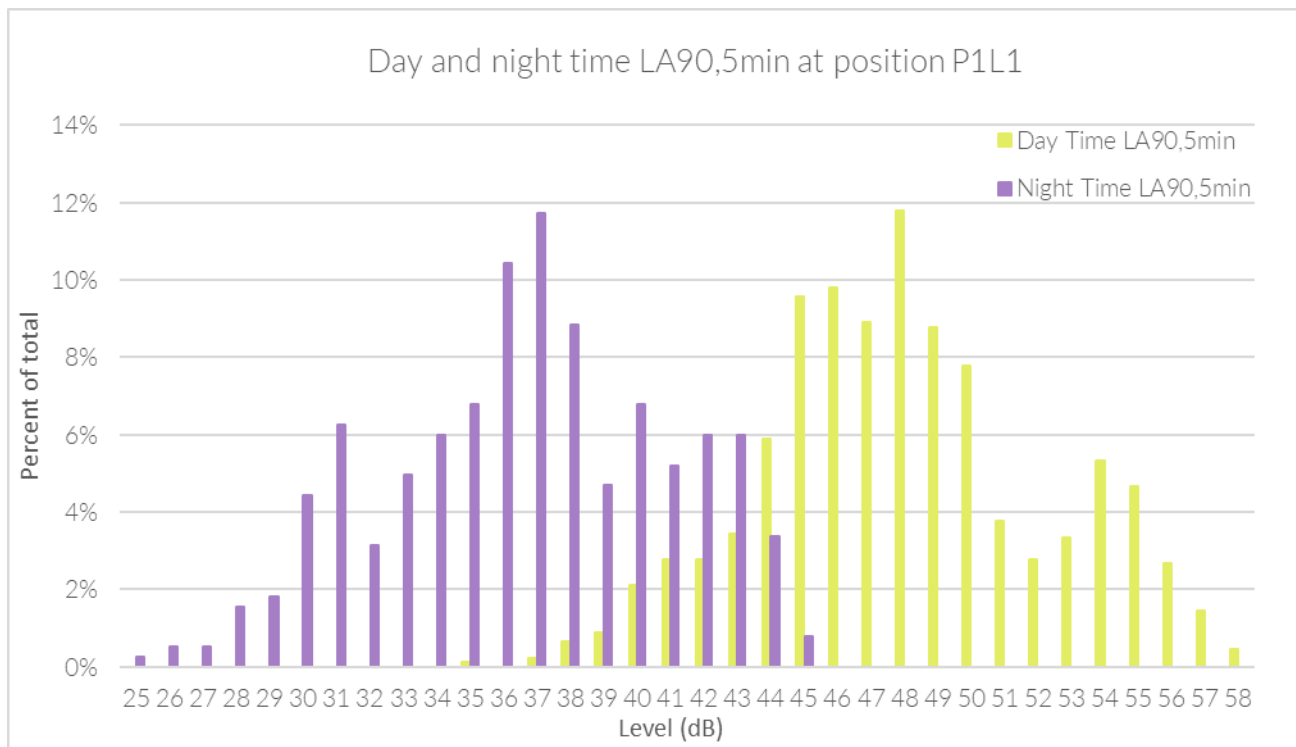


Figure 3: Statistical analysis of background levels at Position L1.

3.2 Attended results.

Meas. Pos.	Time Period	dB LAeq,T	dB LA90,T
P1	Daytime (10:40 to 11:30)	51	49
P2	Daytime (13:45 to 14:00)	47	43
P3	Daytime (14:20 to 14:50)	77	74

Table 3: Summary of attended results.