



ENVIRONMENTAL STATEMENT

VOLUME 2

CHAPTER 9 – NOISE AND VIBRATION



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VOLUME 2

APPENDIX 9.1 – NOISE SURVEY REPORT

ENVIRONMENT

Trustees of J.P. Milne (DEC'D) Will Trust
Stakehill Industrial Estate
Middleton

Baseline Noise Survey Report

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Stakehill Industrial Estate
Middleton

Baseline Noise Survey Report

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Notice

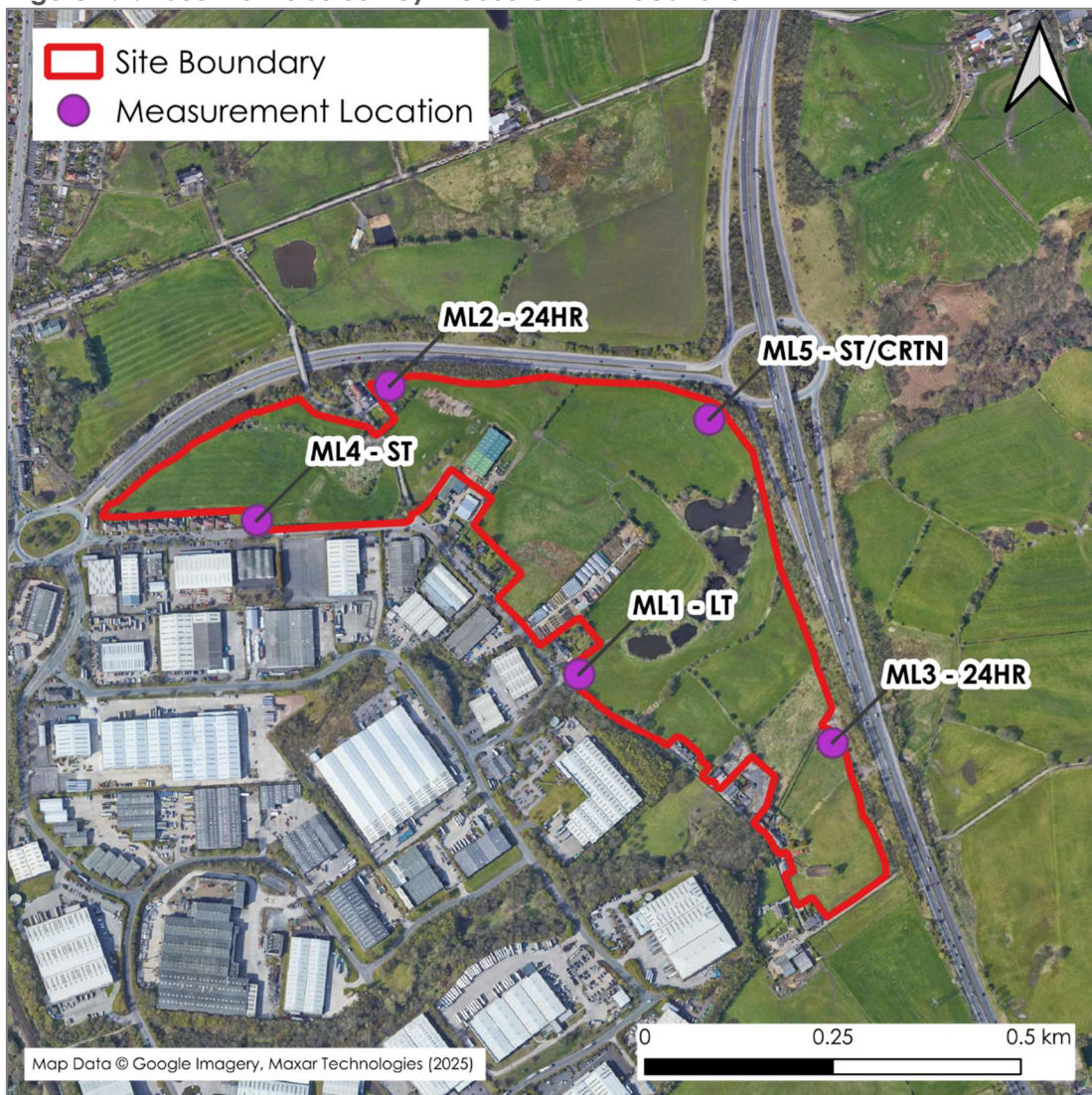
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1. BASELINE NOISE SURVEY

Summary

- 1.1 A baseline noise survey has been undertaken to determine the prevailing noise climate at locations representative of noise sensitive receptors (NSRs) in proximity to the Proposed Development. Baseline noise monitoring has been undertaken at the measurement locations identified in **Figure 1:1**.

Figure 1:1: Baseline Noise Survey Measurement Locations



Survey Methodology

Measurement Location 1

- 1.2 Noise monitoring was undertaken at Measurement Location 1 (ML1) (approximate NGR SD 89241 08187) between 09:30 on Friday the 21st June 2024 and 15:45 on Tuesday 25th June 2024. Measurement equipment was established in free-field conditions at a height

of circa. 1.8 m above local ground level. During periods of attendance on-site the noise climate was noted to be dominated by occasional traffic on Stakehill Lane.

Measurement Location 2

- 1.3 Noise monitoring was undertaken at Measurement Location 2 (ML2) (approximate NGR SD 88989 08570) between 13:15 on Friday the 21st June 2024 and 17:00 on Sunday the 23rd June 2024. Measurement equipment was established in free-field conditions at a height of circa. 1.5m above local ground level. During periods of attendance on-site the noise climate at ML2 was noted to be dominated by road traffic on the A627. The noise meter was subject to tampering due to cattle being released into the field from 19:00 on Friday the 21st June and as such all data beyond this time has not been used.

Measurement Location 3

- 1.4 Noise monitoring was undertaken at Measurement Location 3 (ML3) (approximate NGR SD 89578 08094) between 11:45 on Friday the 21st June 2024 and 17:20 on Sunday the 23rd June 2024. Measurement equipment was established in free-field conditions at a height of circa. 1.8m above local ground level. During periods of attendance on-site the noise climate at ML3 was noted to be dominated by road traffic on the A627.

Measurement Location 4

- 1.5 Noise monitoring was undertaken at Measurement Location 4 (ML4) (approximate NGR SD 88812 08392) on two separate occasions. The first attended measurement was undertaken between 10:10 and 11:20 on Friday the 21st June 2024. Measurement equipment was established in free-field conditions at a height of circa. 1.5m above local ground level. Noise at this location during the attended period was dominated by sound from 'Site Supplies Direct' who had their main roller-shutter open. The second longer term measurement was undertaken between 17:05 on Sunday 23rd June 2024 and 15:30 on Tuesday 25th June 2024. It should be noted that no sound was audible from 'Site Supplies Direct' at either the set-up or collection of the noise meter. Operating times of the 'Site Supplies Direct' site are known to be in two shifts, the Day Shift (06:00 – 16:00 Monday to Thursday), Night Shift (20:00 – 06:00 Sunday to Thursday). Friday is stated as 'overtime' with less plant items running and usually runs from 06:00 -14:00. The shift manager stated that the roller shutter was usually closed during the night shift and only occasionally open during the day.

Measurement Location 5

- 1.6 Noise monitoring was undertaken at Measurement Location 5 (ML5) (SD 89414 08526) between 09:00 and 12:40 on Friday the 21st June 2024. Measurement equipment was established in free-field conditions at a height of circa. 1.5m above local ground level. During periods of attendance on-site the noise climate at ML5 was noted to be dominated by road traffic on the A627.

Measurement Equipment

- 1.7 The baseline noise survey was undertaken using the Class 1 specification noise measurement equipment detailed in **Table 1.1**. The equipment was calibrated using a

portable calibrator immediately before and after the measurements with no significant drift in calibration observed. The sound level meters, pre-amplifiers and microphones were calibrated to traceable standards within the 24 months prior to the measurements. The portable calibrators were calibrated within the 12 months preceding the date of the survey.

Table 1.1: Noise Measurement Equipment

Position	Equipment	Make and Model	Serial Number	Calibration Due Date
ML1	Sound Level Meter	01dB SOLO	60672	02/05/2025
ML3	Microphone	01dB - MCE212	80836	
ML4	Preamp	01dB - PRE21S	13541	
ML2	Sound Level Meter	01dB FUSION	10816	24/04/2025
ML4	Microphone	GRAS 1/2" - 40CD	383040	
ML5	Preamp	01dB - PRE22	10959	
ML1	Sound Level Meter	CEL-63x	1274541	20/01/2025
	Microphone	CEL-251	2072	
	Preamp	CEL-495	003668	
All	Calibrator	Cirrus - 511E	33927	16/08/2024

Weather Conditions

- 1.8 The weather during the survey was understood to be conducive to environmental noise measurement, it being dry with negligible winds during all survey periods (<5 ms⁻¹).

Measurement Results

- 1.9 A summary of measured sound pressure levels at ML1, ML2, ML3, ML4 and ML5 is presented below. Full survey results are included in **Appendix A**.

Table 1.2: Summary of measured sound pressure levels at ML1

Period	Start Time and Date	dB LAeq,T	dB LA90,T ¹	dB LAfmax ²
Friday Daytime	21/06/2024, 09:30	50	44	-
Friday Night-time	21/06/2024, 23:00	50	41	77
Saturday Daytime	22/06/2024, 07:00	50	49	-
Saturday Night-time	22/06/2024, 23:00	48	40	64
Sunday Daytime	23/06/2024, 07:00	50	47	-
Sunday Night-time	23/06/2024, 23:00	49	41	65
Monday Daytime	24/06/2024, 07:00	49	48	-
Monday Night-time	24/06/2024, 23:00	50	42	65
Tuesday Daytime	25/06/2024, 07:00	57	47	-

¹ arithmetic mode LA90,15mins from Friday daytime until Saturday night-time, then arithmetic mode LA90,1hr thereafter
² 90th Percentile LAfmax noise levels during measurement period.

Table 1.3: Summary of measured sound pressure levels at ML2

Period	Start Time and Date	dB LAeq,T	dB LA90,T ¹	dB LAfmax ²
Friday Daytime ³	21/06/2024, 13:15 – 19:15	64	56	-
¹ arithmetic mode LA90,15mins during measurement period. ² 90 th Percentile LAfmax noise levels during measurement period. ³ measurements halted prematurely as equipment disconnected				

Table 1.4: Summary of measured sound pressure levels at ML3

Period	Start Time and Date	dB LAeq,T	dB LA90,T ¹	dB LAfmax ²
Friday Daytime	21/06/2024, 11:45	58	54	-
Friday Night-time	21/06/2024, 23:00	56	51	68
Saturday Daytime	22/06/2024, 07:00	58	53	-
Saturday Night-time	22/06/2024, 23:00	54	50	68
Sunday Daytime	23/06/2024, 07:00	56	52	-
¹ arithmetic mode LA90,15mins during measurement period. ² 90 th Percentile LAfmax noise levels during measurement period.				

Table 1.5: Summary of measured sound pressure levels at ML4

Period	Start Time and Date	dB LAeq,T	dB LA90,T ¹	dB LAfmax ²
Sunday Daytime ³	23/06/2024, 17:00	47	32	-
Sunday Night-time	23/06/2024, 23:00	43	32	64
Monday Daytime	24/06/2024, 07:00	49	35	-
Monday Night-time	24/06/2024, 23:00	48	40	71
Tuesday Daytime	25/06/2024, 07:00	56	43	-
¹ arithmetic mode LA90,15mins during measurement period. ² 90 th Percentile LAfmax noise levels during measurement period.				

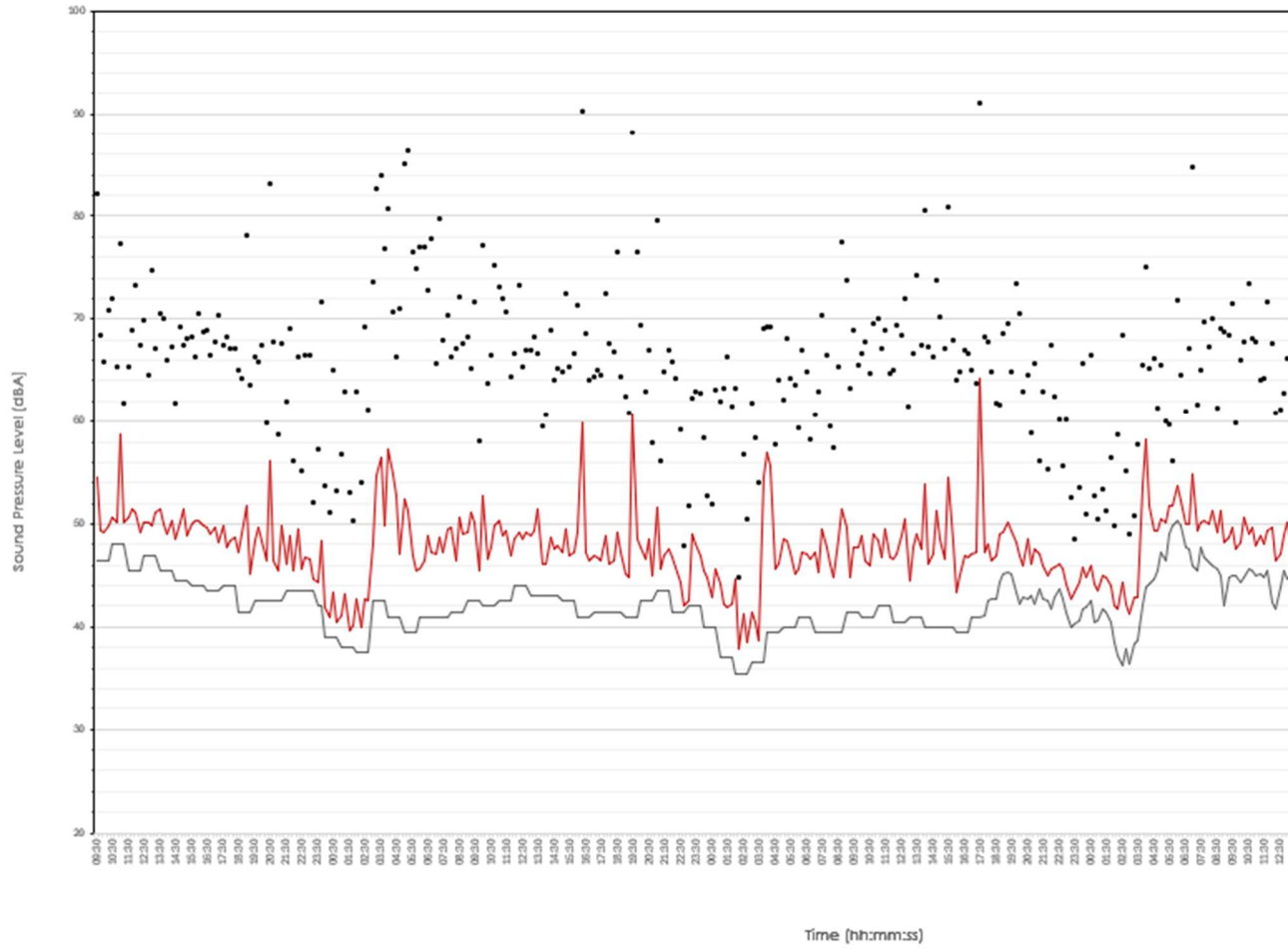
Table 1.6: Summary of measured sound pressure levels at ML5

Period	Start Time and Date	dB LAeq,T	dB LA90,T ¹	dB LAfmax
Friday Daytime	21/06/2024, 09:00 – 12:30	61	58	-
¹ arithmetic mode LA90,15mins during measurement period.				

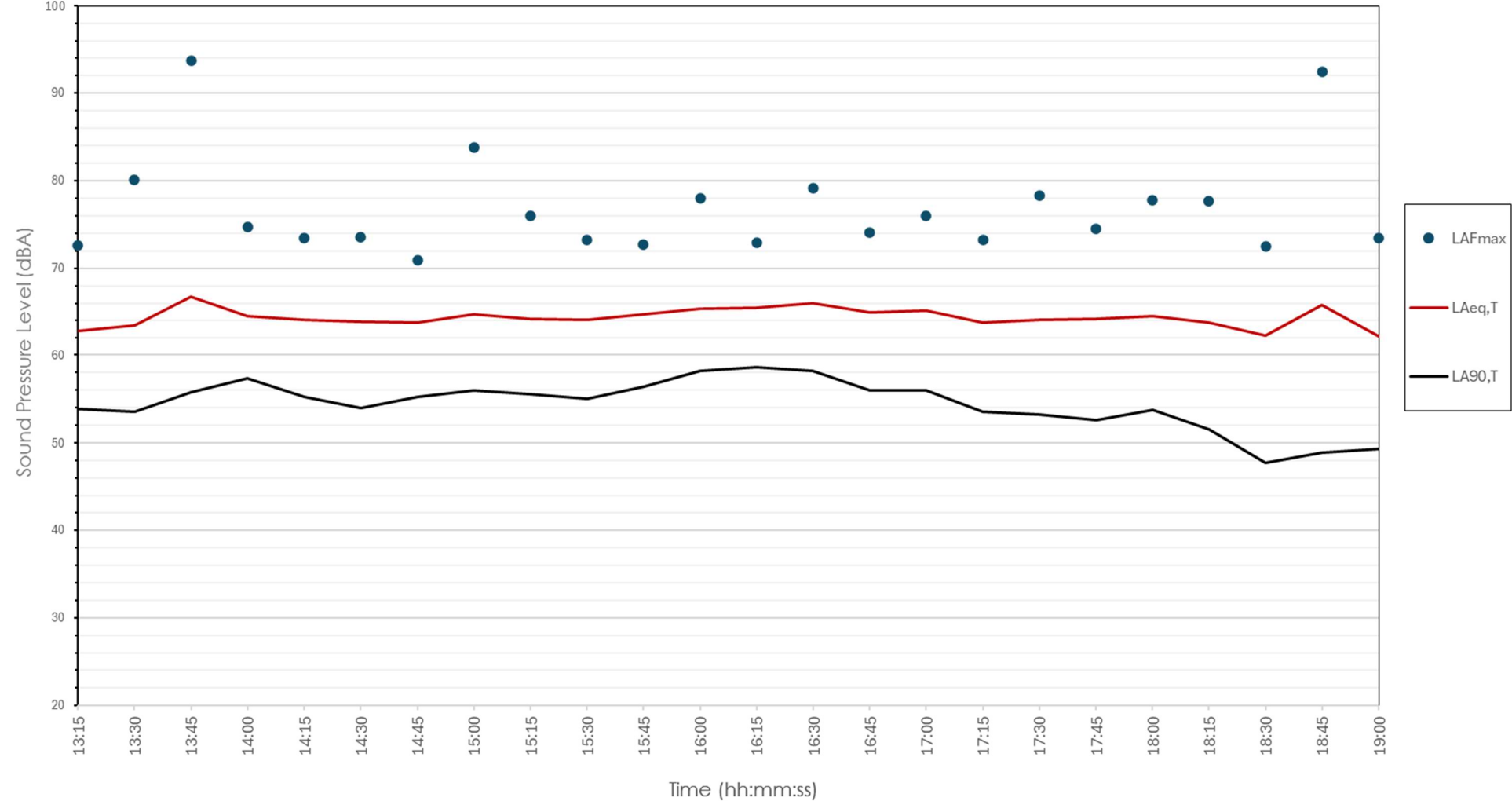
APPENDICES

APPENDIX A: Full Survey Results

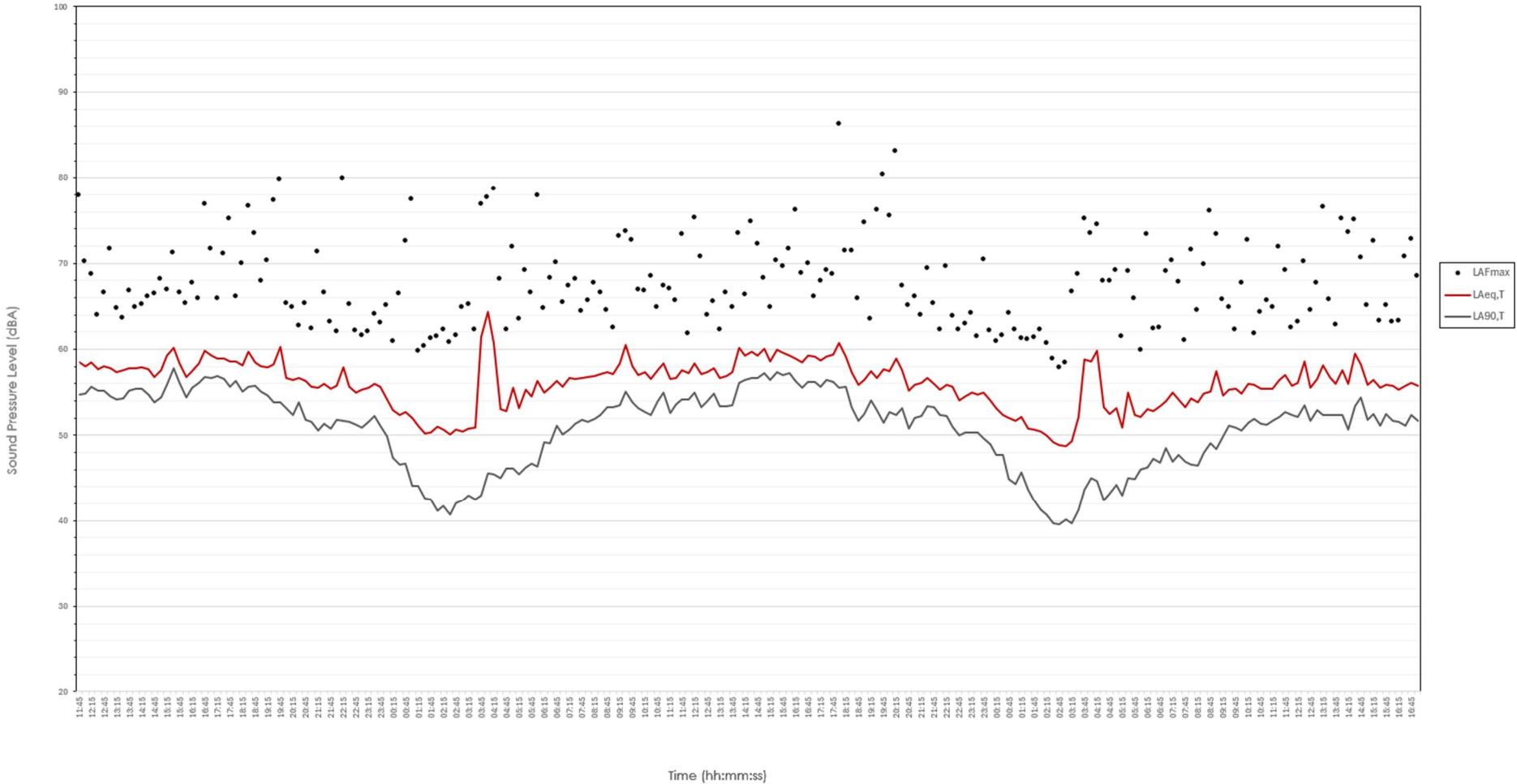
Stakehill Industrial Estate- Noise Impact Assessment
Measurement Location 1 - Time History Graph
21st June - 23rd June 2024



Stakehill Industrial Estate- Noise Impact Assessment
Measurement Location 2 - Time History Graph
21st June 2024

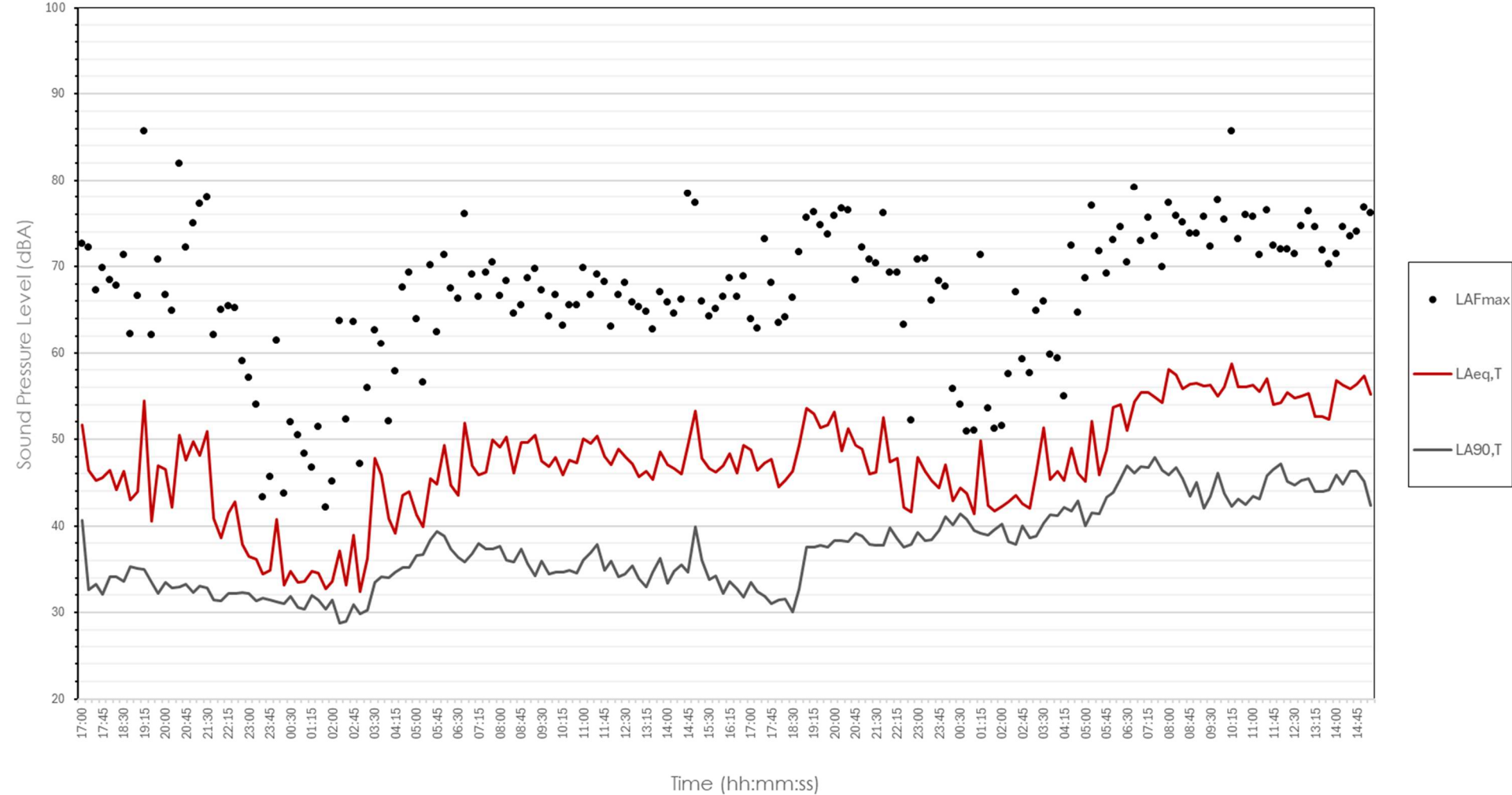


Stakehill Industrial Estate- Noise Impact Assessment
Measurement Location 3 - Time History Graph
21st June - 23rd June 2024



Stakehill Industrial Estate - Noise Impact Assessment

Measurement Location 4 - Time History Graph
23rd June 2024 - 25 June 2024



Stakehill Industrial Estate - Noise Impact Assessment
Measurement Location 5 - Time History Graph
21st June 2024

