

## Liddell Road West Hampstead – Construction Noise Monitoring

3 sound level meters were installed at the Liddell Road construction site on Wednesday 25<sup>th</sup> April 2022. The purpose of the survey is to continuously monitor noise and vibration at the nearest residential receptors to the site. The survey will be carried out over 20 months. This document provides a summary of all the daily average noise and Vibration levels, for a month

**Project Name**  
Liddell Road

**Our Reference**

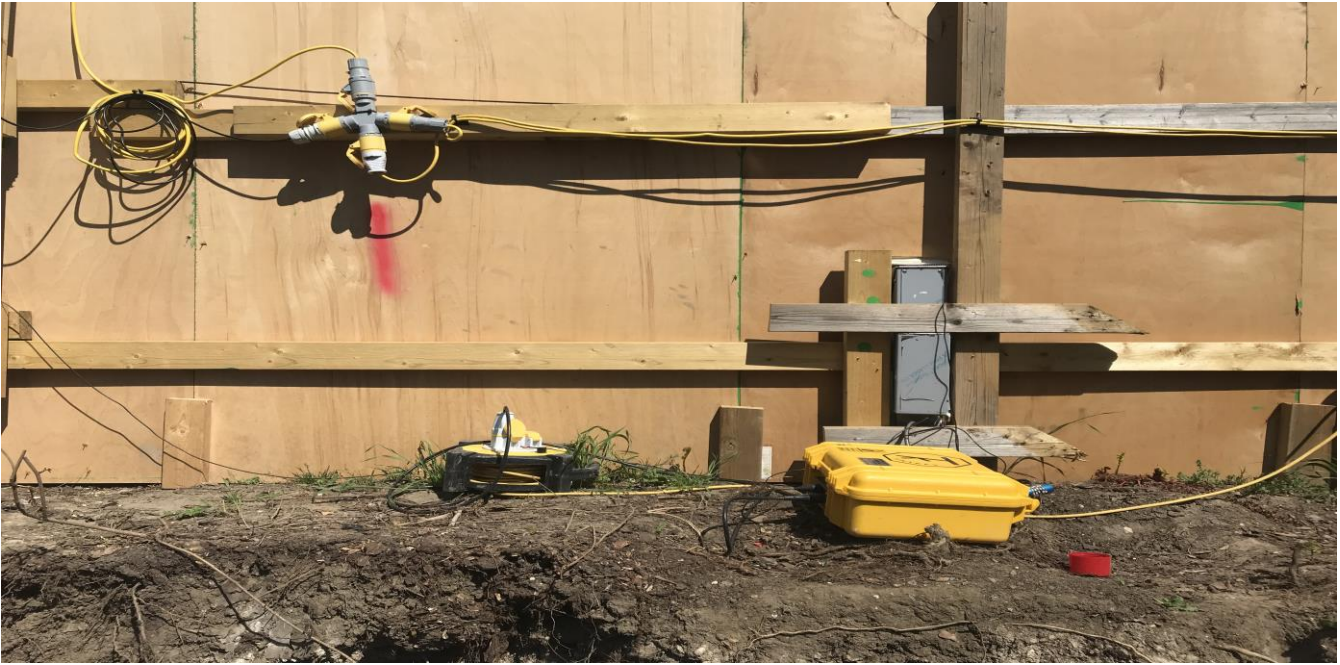
### Measurement Locations



Image 1: Noise & measurement location 3

The sound level meter installed is class 1 in accordance with IEC 61672-1:2013, providing real-time data, audio and email alerts. The Turnkey IVIBE has a daily acoustic self-checking system that verifies the MEMS microphones are operating within tolerance.

The three IVIBE units were calibrated and set up at the locations highlighted on the site map on April 2022. Re-calibrated April 2023



IVIBE Noise & Vibration Monitor location 2

The IVIBE monitors were factory calibrated in April 2022. & March/April 2023

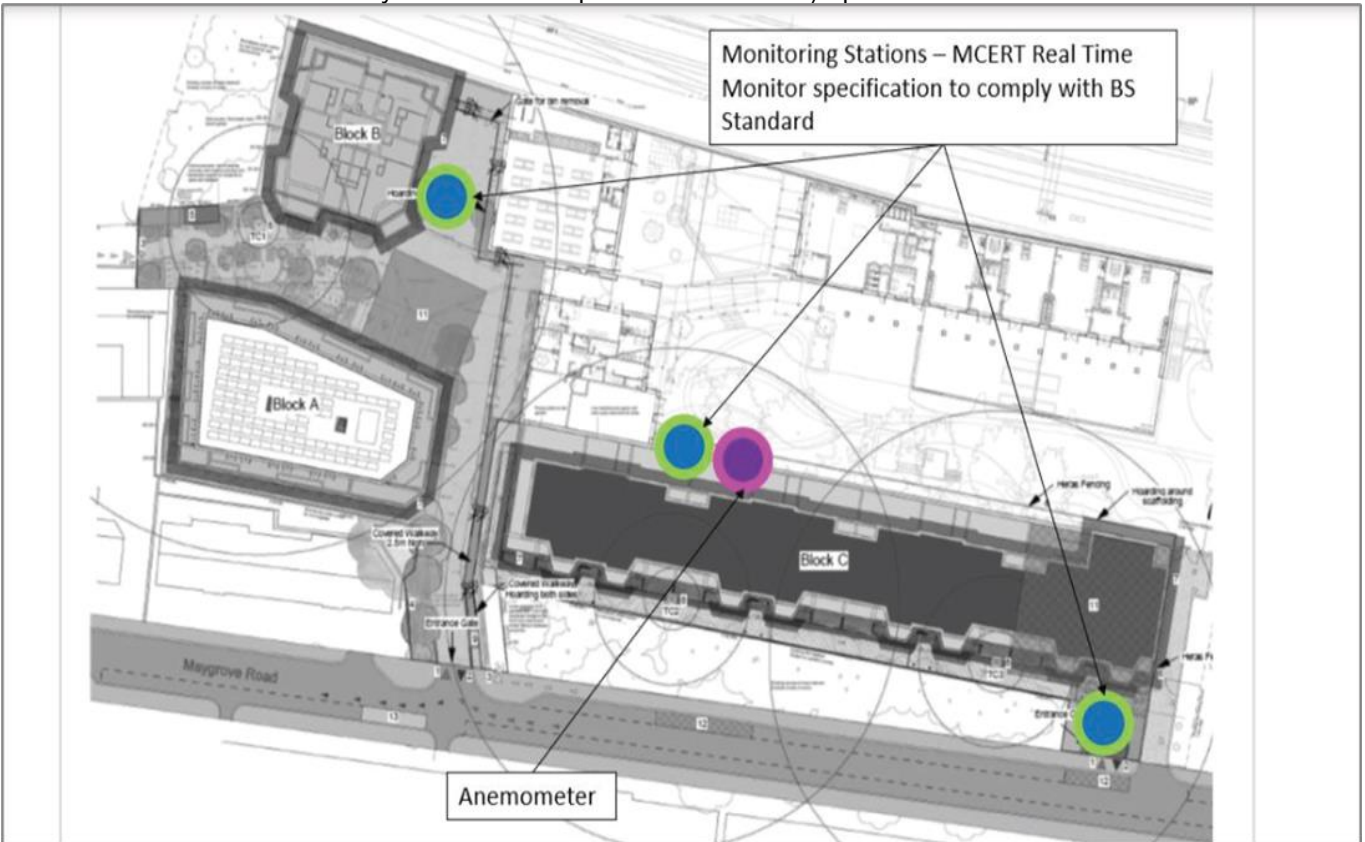


Image 3: Site plan showing measurement locations

Noise levels are assessed against the criteria set out in the noise management plan submitted to the Local Planning Authority for discharge of condition 27-part J. The noise limit is a threshold of 75 dB  $L_{Aeq, T}$  10hour, derived from BS 5228 methodology with reference to Camden Council's construction code and the Control of Pollution Act. Trigger level is set at 65 dB & Vibration Trigger Levels are set at 1.0 mm/s

The agreed working hours for the Liddell Road site are:

Monday - Friday: 8.00 a.m. - 6.00 p.m.

Saturday: 8.00 a.m. - 1.00 p.m.

Sunday and Bank Holidays: No noisy activities on site

Noise levels approaching the trigger levels have been alerted to the site using automatically generated emails

Table 1 Noise Measured at Position 1 **IV0101**

Below provides the daily average 10-hour weekday and 5-hour weekend.

\*

Day	Date	Total noise level $L_{Aeq, T}$ dB	Noise level averaging time	Noise Exceedance	Reason & Action
Mon	01.01.24	62.3	10hr	No	
Tues	02.01.24	63.0	10hr	No	
Wed	03.01.24	64.4	10hr	No	
Thurs	04.01.24	69.3	10hr	No	
Fri	05.01.24	63.4	10hr	No	
Sat	06.01.24	*	5hr	No	Hoarding Monitor on being taken down
Mon	08.01.24	*	10hr	No	
Tues	09.01.24	*	10hr	No	
Wed	10.01.24	*	10hr	No	
Thurs	11.01.24	*	10hr	No	
Fri	12.01.24	*	10hr	No	
Sat	13.01.24	*	5hr	No	
Mon	15.01.24	*	10hr	No	
Tues	16.01.24	*	10hr	No	
Wed	17.01.24	*	10hr	No	
Thurs	18.01.24	*	10hr	No	
Fri	19.01.24	*	10hr	No	
Sat	20.01.24	*	5hr	No	
Mon	22.01.24	*	10hr	No	
Tues	23.01.24	*	10hr	No	
Wed	24.01.24	*	10hr	No	
Thurs	25.01.24	*	10hr	No	
Fri	26.01.24	*	10hr	No	
Sat	27.01.24	*	5hr	No	
Mon	29.01.24	*	10hr	No	
Tues	30.01.24	*	10hr	No	
Wed	31.01.24	*	10hr	No	

The 10-hour weekday and 5-hour Saturday noise levels shown in Table 1 One exceeded the agreed BS5228 threshold value,

The Monitor at Position 3 Is nearest to the Railway which runs past the Site

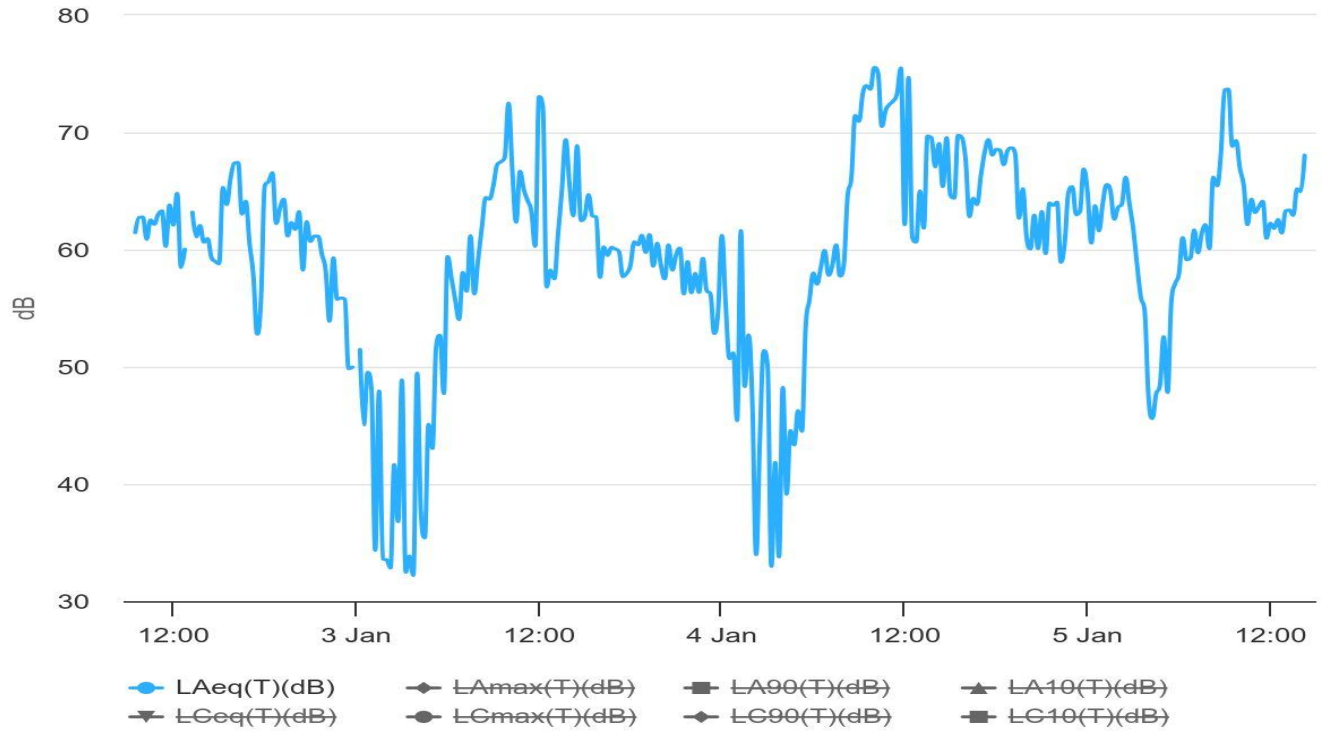
Monitor 1

Table 3 Noise & Vibration Levels Measured at Position 3 IV0103

Day	Date	Total noise level L <sub>Aeq, T</sub> dB	Noise level averaging time	Noise Exceedance	Reason & Action
Mon	01.01.24	34.5	10hr	No	
Tues	02.01.24	39.4	10hr	No	
Wed	03.01.24	37.5	10hr	No	
Thurs	04.01.24	34.8	10hr	No	
Fri	05.01.24	35.2	10hr	No	
Sat	06.01.24	35.7	5hr	No	
Mon	08.01.24	37.0	10hr	No	
Tues	09.01.24	33.1	10hr	No	
Wed	10.01.24	33.6	10hr	No	
Thurs	11.01.24	31.0	10hr	No	
Fri	12.01.24	28.6	10hr	No	
Sat	13.01.24	31.4	5hr	No	
Mon	15.01.24	31.1	10hr	No	
Tues	16.01.24	29.1	10hr	No	
Wed	17.01.24	31.7	10hr	No	
Thurs	18.01.24	30.3	10hr	No	
Fri	19.01.24	32.5	10hr	No	
Sat	20.01.24	34.5	5hr	No	
Mon	22.01.24	33.4	10hr	No	
Tues	23.01.24	32.2	10hr	No	
Wed	24.01.24	33.9	10hr	No	
Thurs	25.01.24	31.4	10hr	No	
Fri	26.01.24	32.4	10hr	No	
Sat	27.01.24	32.2	5hr	No	
Mon	29.01.24	31.0	10hr	No	
Tues	30.01.24	31.2	10hr	No	
Wed	31.01.24	29.9	10hr	No	

The Monitoring of Vibration was asked by the site Manager to be stopped at the end of February 2023

# Monitor 1



## Monitor 2

