Abbreviated Vibration Monitoring Report

Monitoring Period: 01 December 2025 to 04 January 2026

Project:	Grenfell Tower
Document Ref:	EEMC-VMR-201/104 – Grenfell Tower Rev 00
Period:	01 December 2025 to 04 January 2026

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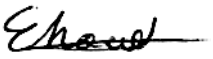
Details of Vibration Monitor at Receptor Point VMP1 – VMP3

ID Reference	Location
VMP1	Opposite Southeast corner of tower between two (2) concrete blocks
VMP2	Base of North hoarding co located with NMP2
VMP3	Mobile unit- Located base of NW hoarding with DMP5 and NMP3

Contents

Review and Authorisation

	Name	Role	Signature	Date
Author:	Ibrahim Busari MSc	Consultant		06/01/2026
Technical Reviewer:	Emma Howard AMIOA, AISEP	Operations Manager/ Senior Consultant		09/01/2026

1. Exceedance Summary

At **VMP1**:
There were **no exceedances** of the red action level 3.0mm/s and **one (1)** exceedance of the amber trigger level 1.0mm/s during working hours in this reporting period.

At **VMP2**:

- There were **no exceedances** of the Red Action level 5.0mm/s and **five (5)** exceedances of the Amber Trigger level 3.0mm/s during working hours in this reporting period.

At **VMP3**:

- There were **no exceedances** of the Red Action Level 5.0mm/s, and no exceedances of the Amber Trigger level in this reporting period during working hours.

Any exceedances that do occur will be shown in **Tables 0.1 and 0.2**, if there are no exceedances these tables will remain empty.

For more information regarding the trigger limits please refer to Section 4 – Methodology.

Table 0.1. – Amber Alert Exceedance Count

Monitoring Location	Time and Date of Exceedance	Measured Level of Exceedance *(mm/s)*	Amber Trigger Alert Level *(mm/s)*	Cause of Exceedance
VMP1	18/12/2025 11:40	1.54	1.0mm/s	14T machine – skip loading in close proximity to the monitor.
VMP2	01/12/2025 10:00	3.11	3.0mm/s	
	09/12/2025 08:50	3.06		
	11/12/2025 10:30	3.25		
	17/12/2025 11:30	3.25		
	17/12/2025 11:35	3.11		
VMP3	-	-		-

**Exceedances outside of working hours can be explained as small mammals e.g. mice/rats/cats or foxes landing on the monitor after climbing a fence or by extreme heavy rainfall.*

Table 0.2. Red Alert Exceedance Count

Monitoring Location	Date and Time of Exceedance	Measured Level of Exceedance *(mm/s)*	Red Action Alert Level *(mm/s)*	Cause of Exceedance	Mitigation
VMP1	-	-	3.0mm/s	-	
VMP2	-	-	5.0mm/s	-	
VMP3	-	-		-	

Figure 1- Map of Vibration, Dust & Vibration Monitoring Locations

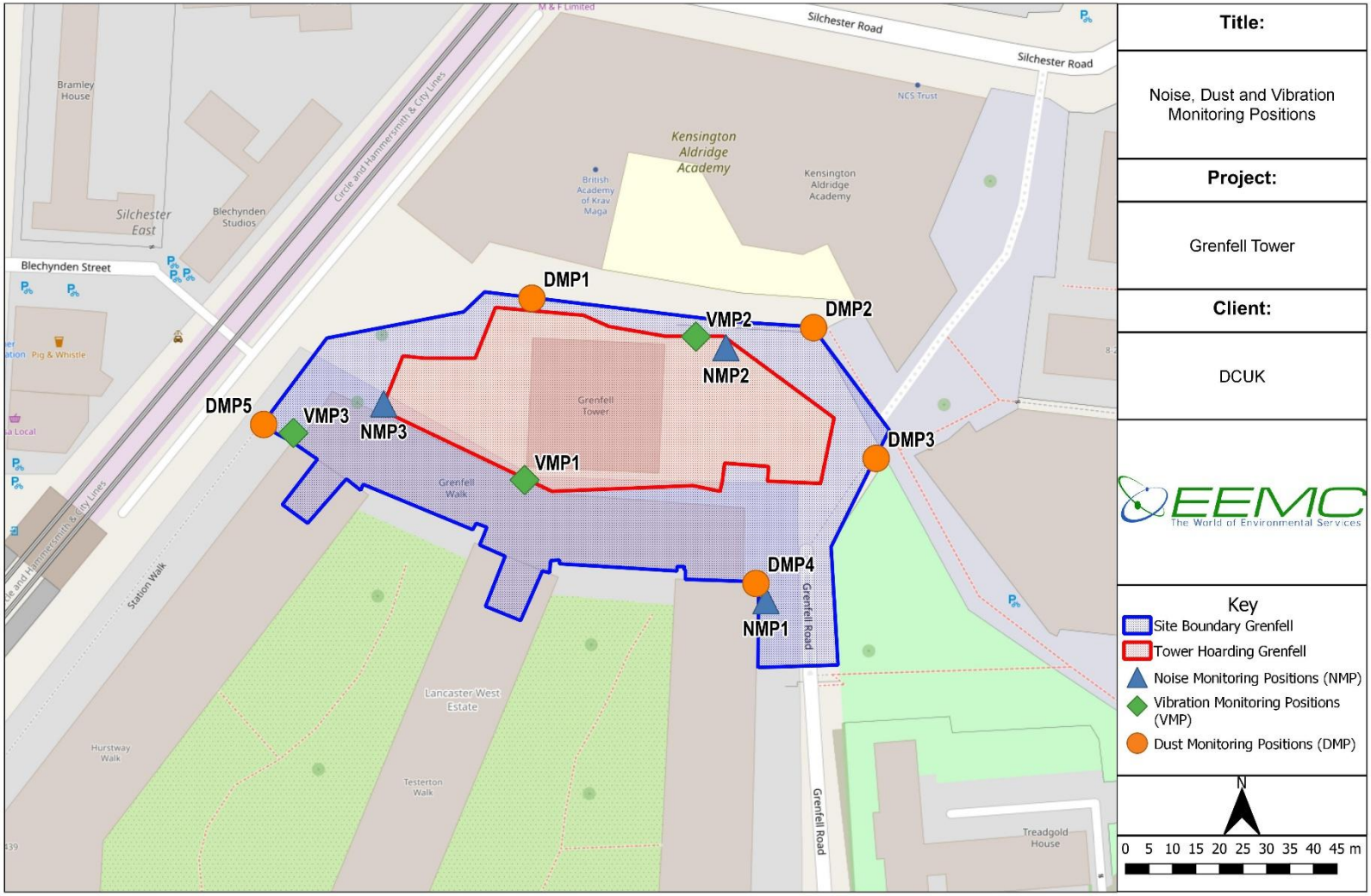


Image 1 – VMP1 Monitoring Location

Image 2 – VMP1 – VMP3 Monitoring Location

Image 3 – VMP1 – VMP3 Monitoring Location

2. Introduction

European Environmental Monitoring and Consultancy (EEMC) Limited have been appointed by Deconstruct to undertake vibration monitoring work during the Deconstruction works at the Grenfell Tower project.

The site boundary and hoarding line of this project is shown in Figure 1. The project is located at Grenfell Tower, Grenfell Road, W11 1TQ. The entire site is located within Royal Borough of Kensington & Chelsea (RBKC) and is bordered by residential blocks to the south, and a school and football pitches to the north and a leisure centre to the east. The London Underground viaduct is 70m to the west and Latimer Road Tube station is 200m from the project

This report presents the measured and recorded unattended vibration monitoring data for the period 01 December 2025 to 04 January 2026.

Deconstruct will ensure ongoing liaison with MHCLG and RBKC when required to obtain any required consents and permits for the project.

3. Instrumentation

Three (3) Omnidots Swarm vibration (DIN45669-2 compliant) monitoring systems, affixed to ground vibration base plates, are installed positioned on a solid floor structure, close to the site boundary. A copy of the calibration certificates for the monitor located at VMP1 is attached as Appendix 1.

The Swarm monitor has built in logging and telemetry and data is managed, configured, and viewed on the Honeycomb cloud portal. Email alerts are generated when trigger levels are exceeded.

4. Methodology

The Swarm monitors record Peak Particle Velocity (PPV) in orthogonal (x, y and z) directions in mm/s continuously over 1-minute periods. A map showing the locations of the monitors is in Figure 1. A photograph showing the monitoring location is shown in Image 1.

The Trigger and Action levels for the project are set out in the **Noise and Vibration Management Plan** (ref: Noise and vibration management plan - Grenfell Tower) and are reproduced for reference in Table 3.1. The NVMP sets out different limits depending on if the closest sensitive receptor is residential or commercial.

The closest sensitive receptors for the three (3) monitoring positions are outlined below and directly link to the limits used:

- The closest sensitive receptor to VMP1 is the ***residential*** Receptor: E - Testerton Walk.
- The closest sensitive receptor to VMP2 is the ***commercial*** Receptor: A - Kensington Aldridge Academy.
- The closest sensitive receptor to VMP3 is the ***commercial*** adjacent Hammersmith and City and Circle Tube Lines.

Table 3.1 – Trigger & Action Levels

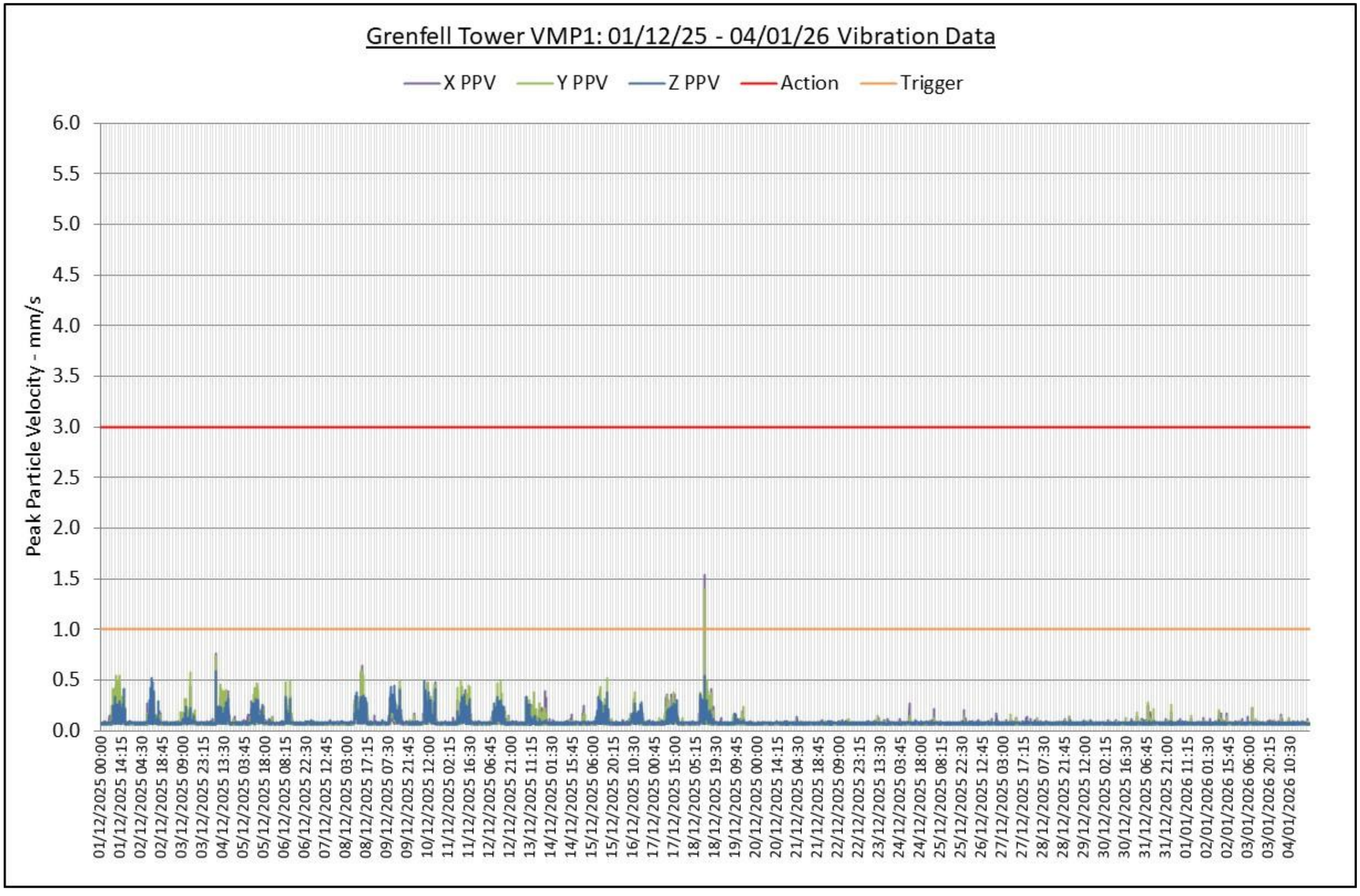
	Green Trigger Level	Amber Trigger Level	Red Action Level
VMP1 *Residential*		1 mm/s	3 mm/s
VMP2 and VMP3 *Commercial*	1 mm/s	3 mm/s	5 mm/s

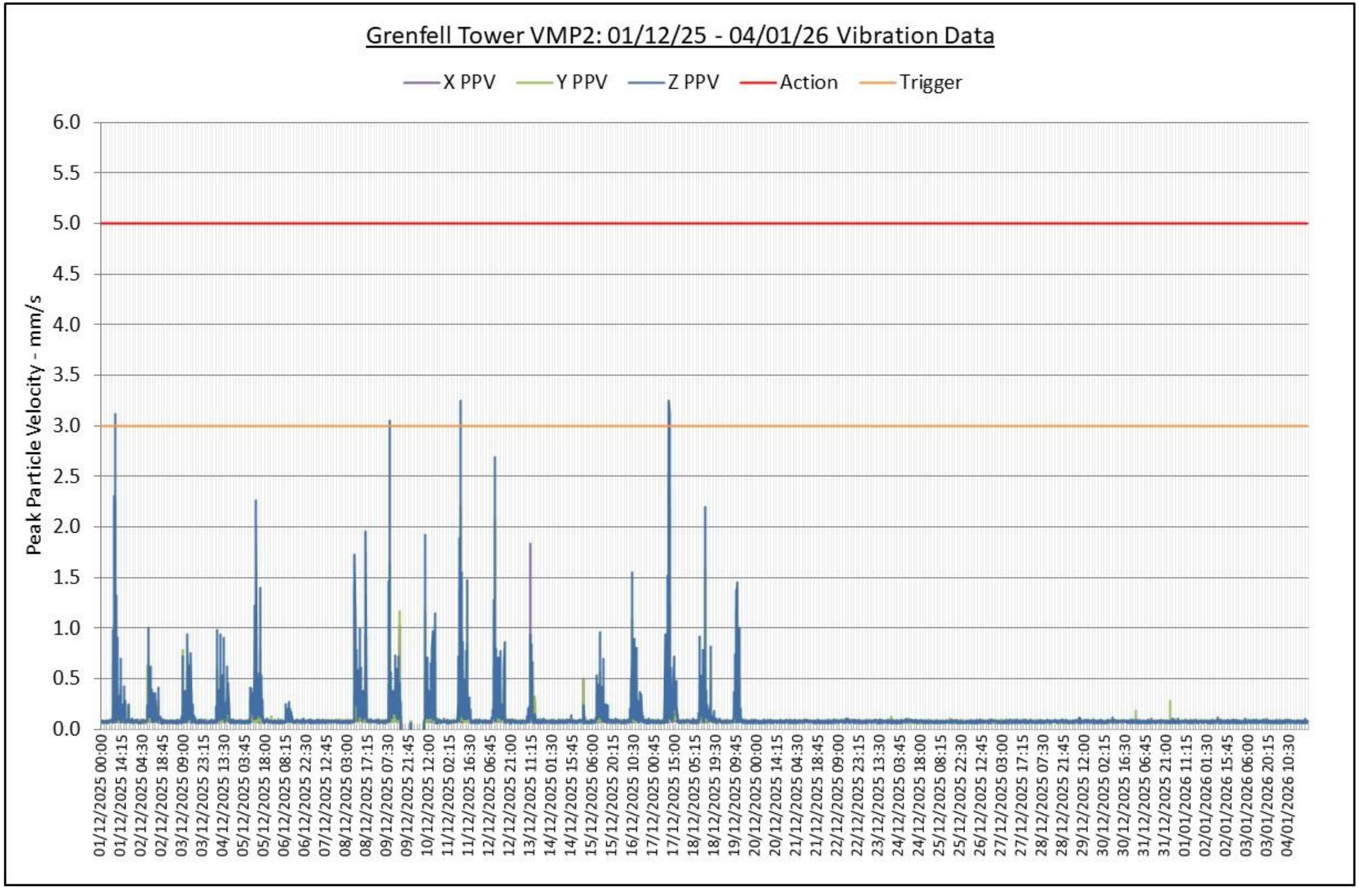
**Green Trigger Alerts are a pre-warning for site only. These are not actionable and therefore the green alerts are not reported on in this report. Amber are a warning for site and red alerts are exceedances which require investigation and mitigation measures.*

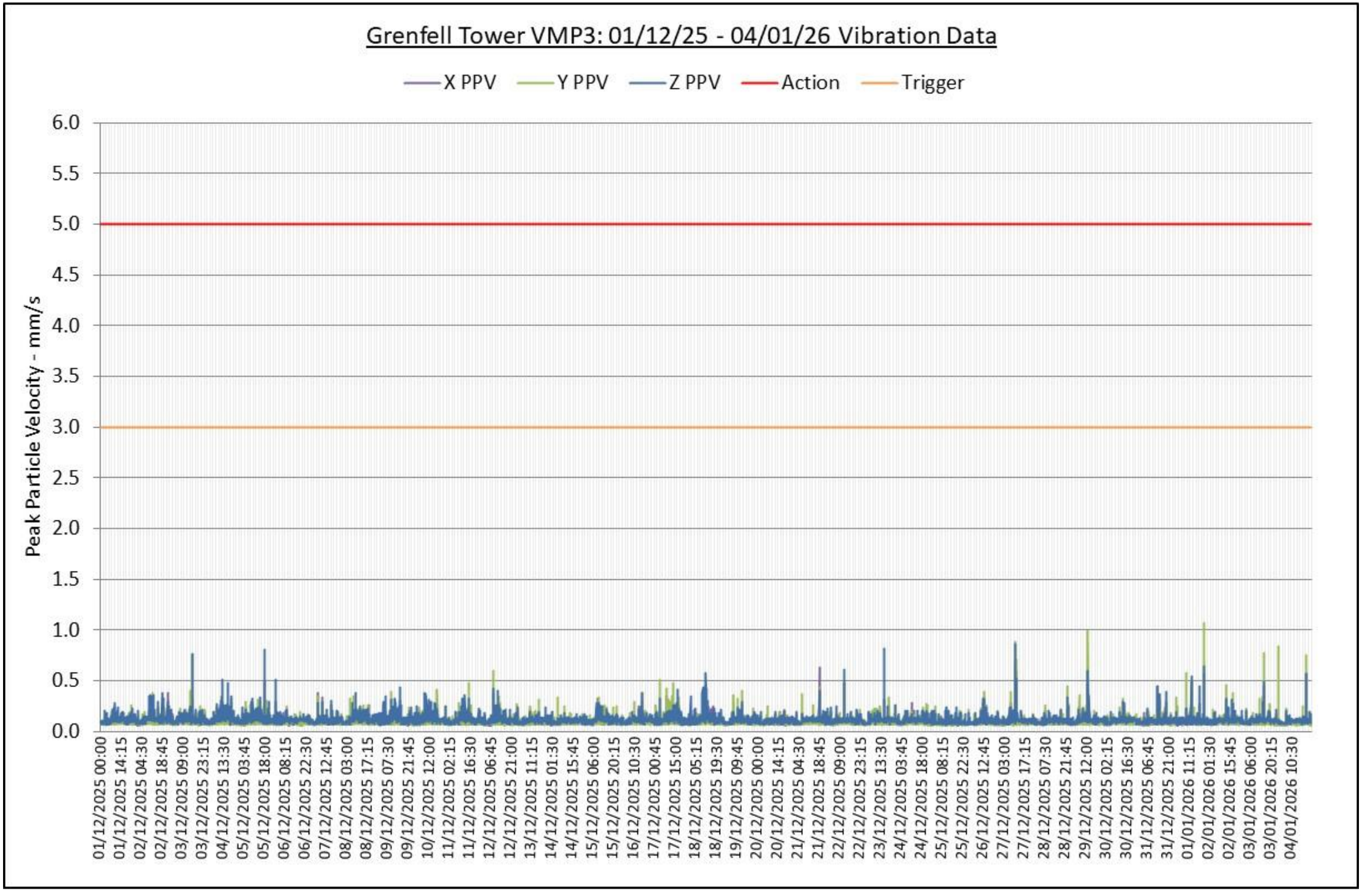
5. Measurement Results

The results of the Vibration measurements in this period are presented graphically in Section 6 of this report.

6. Vibration Monitoring Graphs




Grenfell Tower VMP2: 01/12/25 - 04/01/26 Vibration Data
X PPV
Y PPV
Z PPV
Action
Trigger
Peak Particle Velocity - mm/s
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
01/12/2025 00:00
01/12/2025 14:15
02/12/2025 04:30
02/12/2025 18:45
03/12/2025 09:00
03/12/2025 23:15
04/12/2025 13:30
05/12/2025 03:45
05/12/2025 18:00
06/12/2025 08:15
06/12/2025 22:30
07/12/2025 12:45
08/12/2025 03:00
08/12/2025 17:15
09/12/2025 07:30
09/12/2025 21:45
10/12/2025 12:00
11/12/2025 02:15
11/12/2025 16:30
12/12/2025 06:45
12/12/2025 21:00
13/12/2025 11:15
14/12/2025 01:30
14/12/2025 15:45
15/12/2025 06:00
15/12/2025 20:15
16/12/2025 10:30
17/12/2025 00:45
17/12/2025 15:00
18/12/2025 05:15
18/12/2025 19:30
19/12/2025 09:45
20/12/2025 00:00
20/12/2025 14:15
21/12/2025 04:30
21/12/2025 18:45
22/12/2025 09:00
22/12/2025 23:15
23/12/2025 13:30
24/12/2025 03:45
24/12/2025 18:00
25/12/2025 08:15
25/12/2025 22:30
26/12/2025 12:45
27/12/2025 03:00
27/12/2025 17:15
28/12/2025 07:30
28/12/2025 21:45
29/12/2025 12:00
30/12/2025 02:15
30/12/2025 16:30
31/12/2025 06:45
31/12/2025 21:00
01/01/2026 11:15
02/01/2026 01:30
02/01/2026 15:45
03/01/2026 06:00
03/01/2026 20:15
04/01/2026 10:30


Grenfell Tower VMP3: 01/12/25 - 04/01/26 Vibration Data
X PPV
Y PPV
Z PPV
Action
Trigger
Peak Particle Velocity - mm/s
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
01/12/2025 00:00
01/12/2025 14:15
02/12/2025 04:30
02/12/2025 18:45
03/12/2025 09:00
03/12/2025 23:15
04/12/2025 13:30
05/12/2025 03:45
05/12/2025 18:00
06/12/2025 08:15
06/12/2025 22:30
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10/12/2025 12:00
11/12/2025 02:15
11/12/2025 16:30
12/12/2025 06:45
12/12/2025 21:00
13/12/2025 11:15
14/12/2025 01:30
14/12/2025 15:45
15/12/2025 06:00
15/12/2025 20:15
16/12/2025 10:30
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17/12/2025 15:00
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