

Holloway Park, London

Construction Monitoring Report

Client: London Square
Ref: CM66-22405-R0
Date: 8 January 2024
Note by: Adam Bamford, BSc MIOA DipIOA, Principal Acoustics Consultant

1. INTRODUCTION

1.1 This Technical Note sets out results of the construction monitoring being carried out at the above between Monday 1st January and Saturday 6th January 2024. The monitoring is being carried out in accordance with the methodology set out in the Cass Allen response (reference LR03-22405-R0 dated 27 October 2023) to a S60 warning letter issued to Downwell Demolition Ltd.

2. WEEKLY ACTIVITIES

2.1 The following activities have been carried out onsite this week:

Downwell

- Maintenance of site monitors
- Maintenance of site fencing
- Maintenance of site roadworks

Horizon

- Ground remediation.
- Loading lorries
- Screening.

Pure logistics

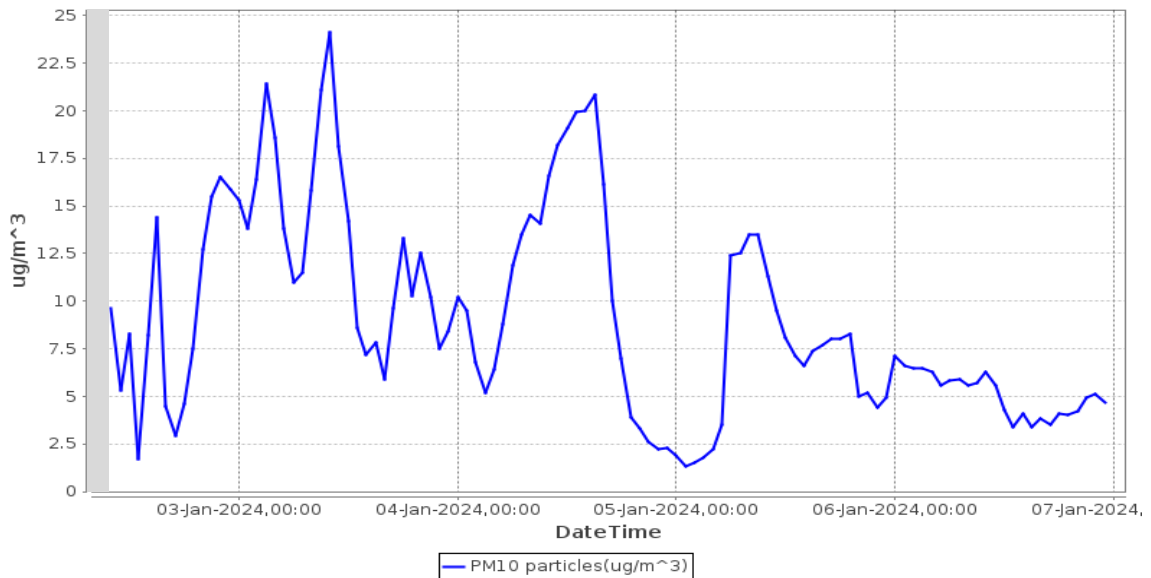
- Installation of site welfare cabins

3. MONITORING DATA

3.1 This section sets out a summary of the monitoring data that has been recorded onsite and provides a discussion of any exceedances and best practicable means incorporated by the site team if exceedances were believed to be construction related.

Dust Monitoring Results

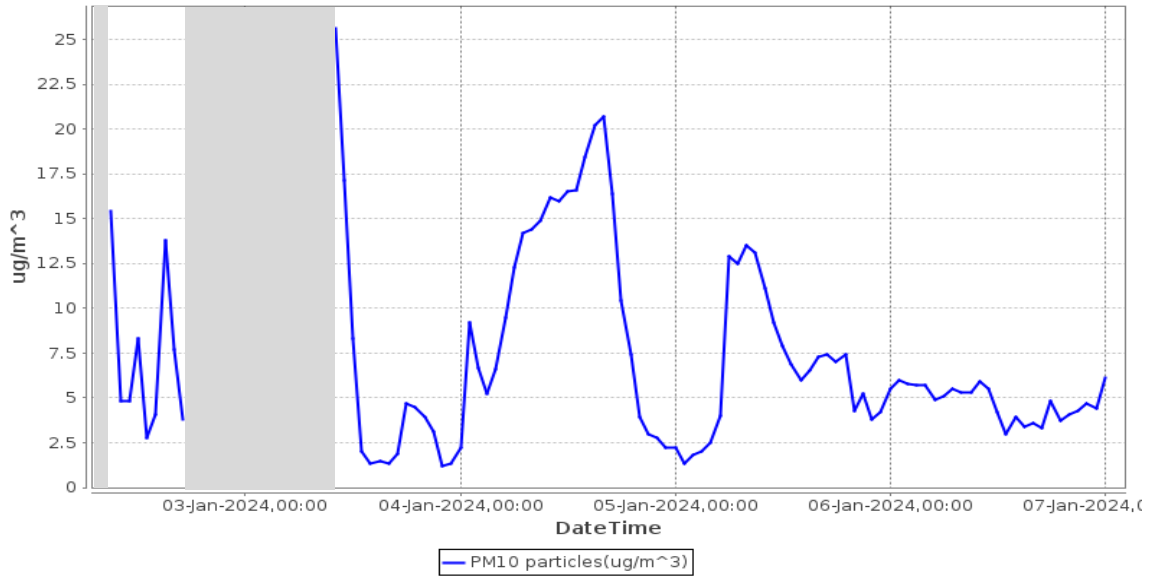
Location 1



- Dust trigger level, 190 μg m⁻³ 60-minute mean for PM10 concentrations
- Dust level, μg m⁻³ 60-minute mean for PM10 concentrations
- Data unavailable

3.2 There was 78% data coverage at Location 1 for the monitoring period covered by this report. The missing data was caused by depleted batteries and occurred on the Bank Holiday Monday. Data collection resumed from 1000 hours on 2nd January. No exceedances of the project dust criteria of 190 micrograms per cubic meter were recorded during the monitoring period covered by this report.

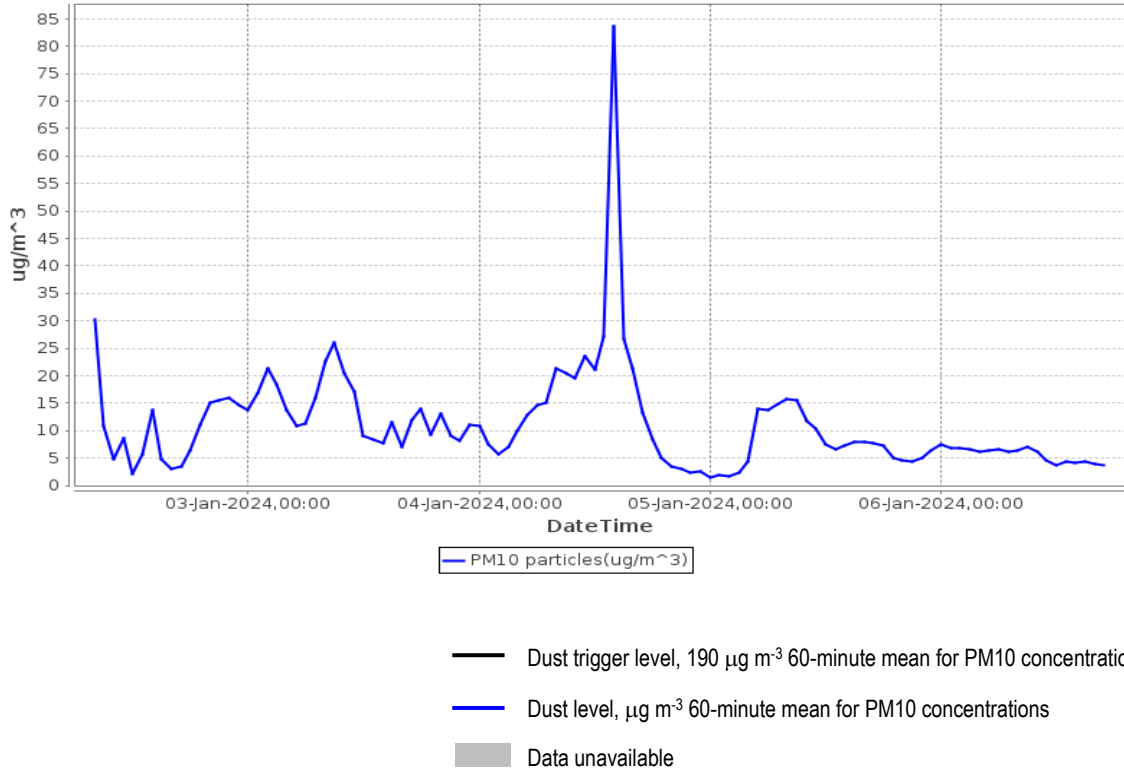
Location 2



- Dust trigger level, 190 $\mu\text{g m}^{-3}$ 60-minute mean for PM10 concentrations
- Dust level, $\mu\text{g m}^{-3}$ 60-minute mean for PM10 concentrations
- Data unavailable

3.3 There was 78% data coverage at Location 2 for the monitoring period covered by this report. The missing data was caused by depleted batteries. No exceedances of the project dust criteria of 190 micrograms per cubic meter were recorded during the monitoring period covered by this report.

Location 3



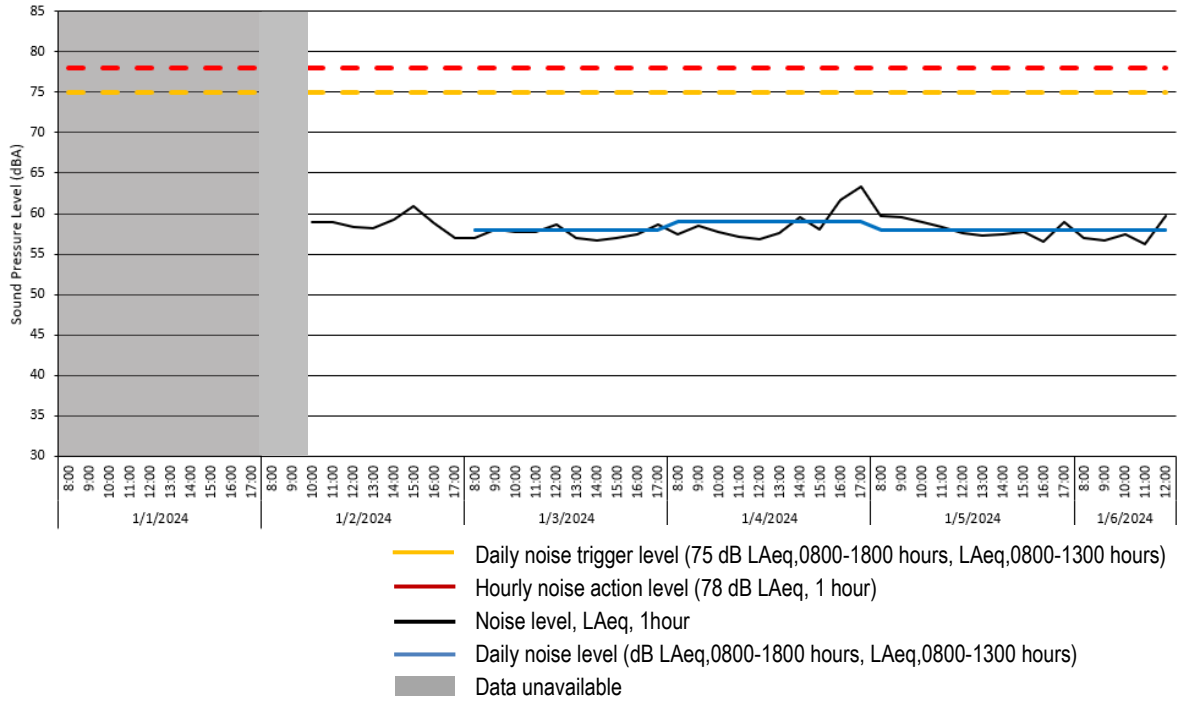
3.4 There was 82% data coverage at Location 3 for the monitoring period covered by this report. The missing data was caused by depleted batteries and only occurred on the Bank Holiday Monday when the site was closed. No exceedances of the project dust criteria of 190 micrograms per cubic meter were recorded during the monitoring period covered by this report.

Noise Monitoring Results

Location 1 – Raw Data

# Broadband Results	Date	Time	LAeq(60min)	LAeq(7hr)	LAeq(10hr)	LAeq(5hr)
	[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]	[dB]
	2024-01-02	11:00:00	58.9	--	--	--
	2024-01-02	12:00:00	58.9	--	--	--
	2024-01-02	13:00:00	58.3	--	--	--
	2024-01-02	14:00:00	58.2	--	--	--
	2024-01-02	15:00:00	59.2	--	--	--
	2024-01-02	16:00:00	60.9	--	--	--
	2024-01-02	17:00:00	58.8	--	--	--
	2024-01-02	18:00:00	57.0	--	--	--
	2024-01-03	09:00:00	57.0	--	--	--
	2024-01-03	10:00:00	58.0	--	--	--
	2024-01-03	11:00:00	57.8	--	--	--
	2024-01-03	12:00:00	57.7	--	--	--
	2024-01-03	13:00:00	58.7	--	--	--
	2024-01-03	14:00:00	57.0	--	--	--
	2024-01-03	15:00:00	56.6	--	--	--
	2024-01-03	16:00:00	57.0	--	--	--
	2024-01-03	17:00:00	57.4	--	--	--
	2024-01-03	18:00:00	58.7	--	57.6	--
	2024-01-04	09:00:00	57.4	--	--	--
	2024-01-04	10:00:00	58.5	--	--	--
	2024-01-04	11:00:00	57.7	--	--	--
	2024-01-04	12:00:00	57.1	--	--	--
	2024-01-04	13:00:00	56.8	--	--	--
	2024-01-04	14:00:00	57.6	--	--	--
	2024-01-04	15:00:00	59.5	--	--	--
	2024-01-04	16:00:00	58.1	--	--	--
	2024-01-04	17:00:00	61.7	--	--	--
	2024-01-04	18:00:00	63.3	--	59.3	--
	2024-01-05	09:00:00	59.7	--	--	--
	2024-01-05	10:00:00	59.5	--	--	--
	2024-01-05	11:00:00	59.0	--	--	--
	2024-01-05	12:00:00	58.3	--	--	--
	2024-01-05	13:00:00	57.6	--	--	--
	2024-01-05	14:00:00	57.3	--	--	--
	2024-01-05	15:00:00	57.4	--	--	--
	2024-01-05	16:00:00	57.8	--	--	--
	2024-01-05	17:00:00	56.5	--	--	--
	2024-01-05	18:00:00	58.9	--	58.3	--
	2024-01-06	09:00:00	56.9	--	--	--
	2024-01-06	10:00:00	56.7	--	--	--
	2024-01-06	11:00:00	57.5	--	--	--
	2024-01-06	12:00:00	56.2	--	--	--
	2024-01-06	13:00:00	59.7	--	--	57.6

Location 1 – Time History Data



3.5 There was 78% data coverage at Location 1 for the monitoring period covered by this report. The missing data was caused by depleted batteries and mainly occurred on the Bank Holiday Monday. No exceedances of the project hourly noise criteria of 78 dB LAeq nor the daily project noise limit of 75 dB LAeq (0800-1800 hours) were recorded during the monitoring period covered by this report.

Location 2 – Raw Data

- 3.6 There was 0% data coverage at Location 2 for the monitoring period covered by this report. Cass Allen will attend site on 9th January to carry out maintenance on this monitor – we suspect that a damaged battery cable maybe the cause of the issue.

Location 2 – Time History Data

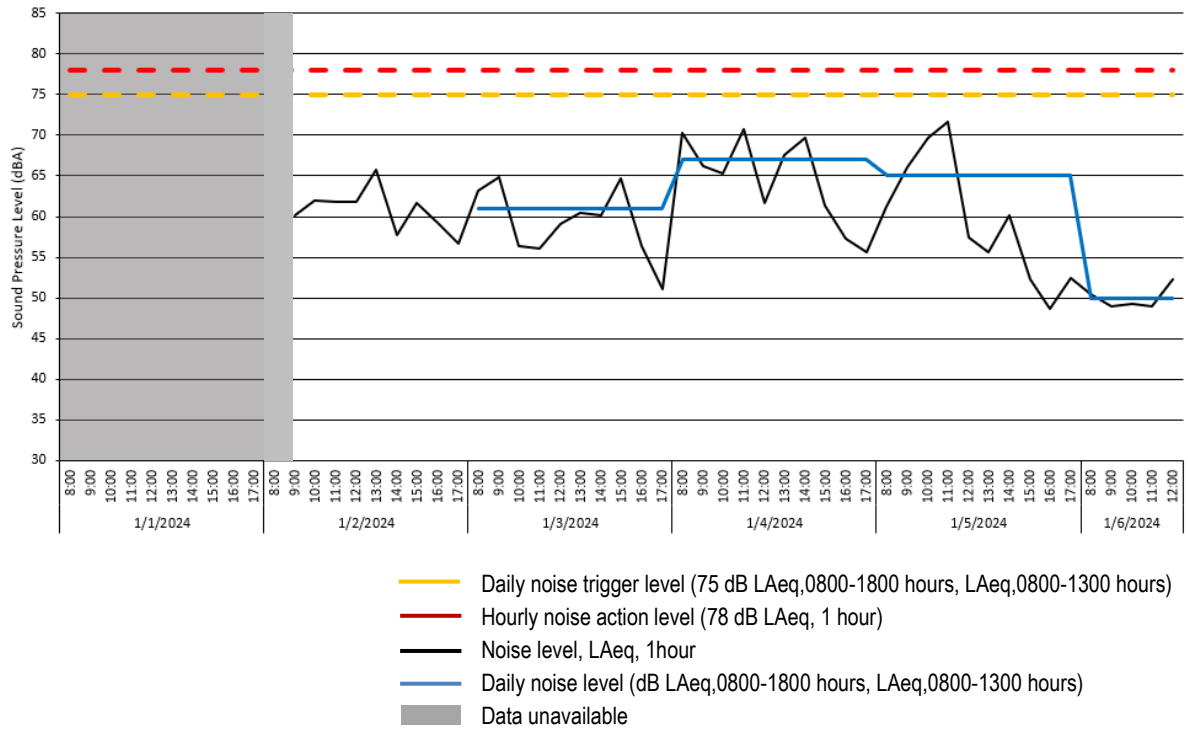
- 3.7 There was 0% data coverage at Location 2 for the monitoring period covered by this report. Cass Allen will attend site on 9th January to carry out maintenance on this monitor – we suspect that a damaged battery cable maybe the cause of the issue.

Location 3 – Raw Data

Broadband Results

Date [YYYY-MM-DD]	Time [hh:mm:ss]	LAeq(60min) [dB]	LAeq(10hr) [dB]	LAeq(5hr) [dB]
2024-01-02	10:00:00	60.2	--	--
2024-01-02	11:00:00	61.9	--	--
2024-01-02	12:00:00	61.8	--	--
2024-01-02	13:00:00	61.8	--	--
2024-01-02	14:00:00	65.7	--	--
2024-01-02	15:00:00	57.7	--	--
2024-01-02	16:00:00	61.7	--	--
2024-01-02	17:00:00	59.2	--	--
2024-01-02	18:00:00	56.6	--	--
2024-01-03	09:00:00	63.2	--	--
2024-01-03	10:00:00	64.9	--	--
2024-01-03	11:00:00	56.3	--	--
2024-01-03	12:00:00	56.1	--	--
2024-01-03	13:00:00	59.1	--	--
2024-01-03	14:00:00	60.5	--	--
2024-01-03	15:00:00	60.2	--	--
2024-01-03	16:00:00	64.7	--	--
2024-01-03	17:00:00	56.4	--	--
2024-01-03	18:00:00	51.0	61.0	--
2024-01-04	09:00:00	70.3	--	--
2024-01-04	10:00:00	66.2	--	--
2024-01-04	11:00:00	65.3	--	--
2024-01-04	12:00:00	70.7	--	--
2024-01-04	13:00:00	61.6	--	--
2024-01-04	14:00:00	67.6	--	--
2024-01-04	15:00:00	69.7	--	--
2024-01-04	16:00:00	61.3	--	--
2024-01-04	17:00:00	57.3	--	--
2024-01-04	18:00:00	55.6	66.9	--
2024-01-05	09:00:00	61.2	--	--
2024-01-05	10:00:00	66.1	--	--
2024-01-05	11:00:00	69.7	--	--
2024-01-05	12:00:00	71.6	--	--
2024-01-05	13:00:00	57.5	--	--
2024-01-05	14:00:00	55.6	--	--
2024-01-05	15:00:00	60.2	--	--
2024-01-05	16:00:00	52.3	--	--
2024-01-05	17:00:00	48.6	--	--
2024-01-05	18:00:00	52.5	65.0	--
2024-01-06	09:00:00	50.5	--	--
2024-01-06	10:00:00	48.9	--	--
2024-01-06	11:00:00	49.2	--	--
2024-01-06	12:00:00	49.0	--	--
2024-01-06	13:00:00	52.3	--	50.2

Location 3 – Time-history graph



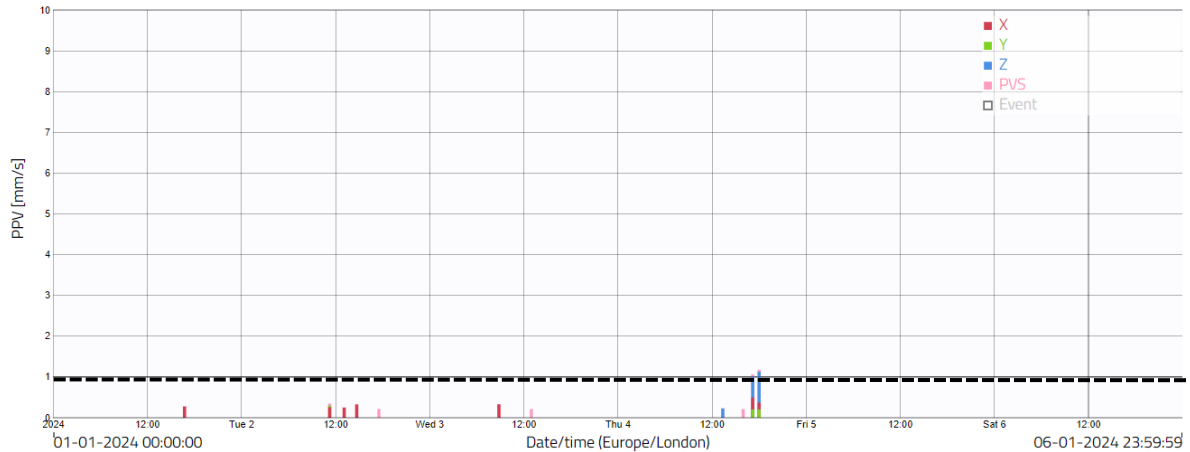
3.8 There was 80% data coverage at Location 3 for the monitoring period covered by this report. The missing data was caused by depleted batteries and mainly occurred on the Bank Holiday Monday. No exceedances of the project hourly noise criteria of 78 dB LAeq nor the daily project noise limit of 75 dB LAeq (0800-1800 hours) were recorded during the monitoring period covered by this report.

Vibration Monitoring Results

Location 1 – Raw data

Measuring point:	Period:	Order	Value	Date	Time
Holloway - L1	01/01/2024 to 06/01/2024	1	1.18	04/01/2024	17:59
		2	1.06	04/01/2024	17:10
Criteria mm/s PVS	Exceedances	3	0.95	04/01/2024	17:11
1	2	4	0.94	04/01/2024	17:37
		5	0.91	04/01/2024	17:25
		6	0.90	04/01/2024	17:46

Location 1 – Time-history graph



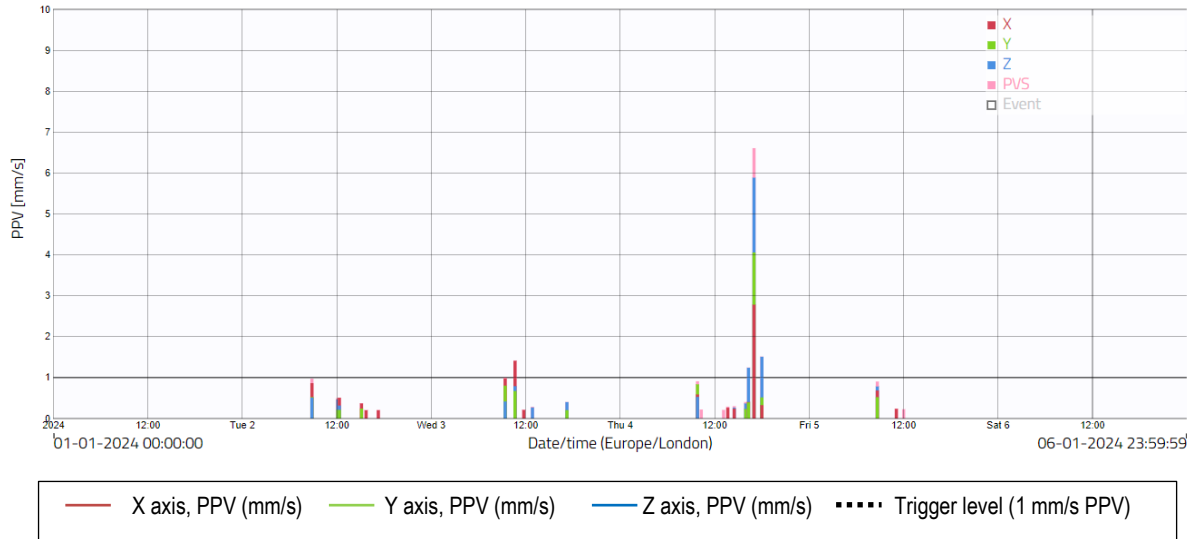
— X axis, PPV (mm/s) — Y axis, PPV (mm/s) — Z axis, PPV (mm/s) - - - - Trigger level (1 mm/s PPV)

3.9 There was 100% data coverage at Location 1 for the monitoring period covered by this report. There were two exceedances of the project vibration trigger level of 1 mm/s PPV as shown in the raw data and graph above. The project team that confirmed that no active demolition works have taken place in this area of the site since 24th October and therefore the exceedances are believed to be due to non-construction related activities. In this location, it is likely that the residents opened and closing the main door to the residential building will cause occasional vibration spikes, given that the monitor is located on the same facade as the doors.

Location 2 – Raw data

Measuring point:	Period:	Order	Value	Date	Time
Holloway - L2	01/01/2024 to 06/01/2024	1	6.61	04/01/2024	17:00
		2	5.03	04/01/2024	17:04
Criteria mm/s PVS	Exceedances	3	3.60	04/01/2024	17:01
1	12	4	1.94	04/01/2024	17:12
		5	1.51	04/01/2024	17:59
		6	1.42	03/01/2024	10:34
		7	1.37	03/01/2024	10:35
		8	1.25	04/01/2024	16:18
		9	1.16	04/01/2024	17:54
		10	1.12	04/01/2024	16:06
		11	1.10	04/01/2024	17:17
		12	1.08	04/01/2024	15:58
		13	1.00	03/01/2024	09:22
		14	0.97	02/01/2024	08:38

Location 2 – Time-history graph

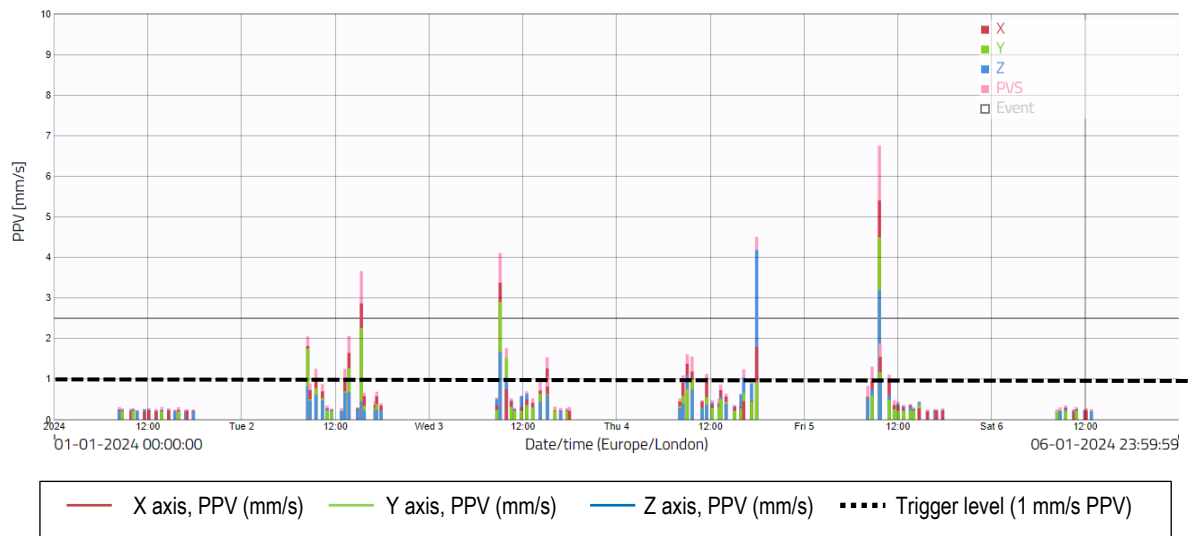


3.10 There was 100% data coverage at Location 2 for the monitoring period covered by this report. There were 12 exceedances of the project vibration trigger level of 1 mm/s PPV as shown in the raw data and graph above. The project team that confirmed that no active demolition works have taken place in this area of the site since 24th October and therefore the exceedances are believed to be due to non-construction related activities. In this location, it is likely that a combination of site operatives changing batteries and weather-related events (i.e. rainfall or heavy gusts) are responsible for the recorded exceedances. It is our understanding that one of the residents behind the monitoring location has some form of workshop with power tools at the rear of their garden. Any operation of these tools could also generate vibration alerts.

Location 3 – Raw data

Measuring point:	Period:	Order	Value	Date	Time	Order	Value	Date	Time
Holloway - L3	01/01/2024 to 06/01/2024	1	6.75	05/01/2024	09:39	27	1.46	02/01/2024	13:41
		2	4.51	04/01/2024	17:56	28	1.44	03/01/2024	09:13
Criteria mm/s PVS	Exceedances	3	4.11	03/01/2024	09:06	29	1.37	03/01/2024	08:51
		4	3.81	03/01/2024	09:03	30	1.37	05/01/2024	09:49
1	51	5	3.66	02/01/2024	15:19	31	1.33	02/01/2024	08:28
		6	3.44	05/01/2024	09:39	32	1.31	03/01/2024	09:00
		7	2.51	05/01/2024	09:40	33	1.31	05/01/2024	08:43
		8	2.35	03/01/2024	09:16	34	1.30	05/01/2024	09:48
		9	2.28	03/01/2024	09:10	35	1.26	02/01/2024	09:30
		10	2.20	03/01/2024	09:09	36	1.25	02/01/2024	13:12
		11	2.12	04/01/2024	17:28	37	1.24	03/01/2024	08:56
		12	2.06	02/01/2024	13:44	38	1.24	04/01/2024	16:16
		13	2.06	02/01/2024	08:27	39	1.23	02/01/2024	13:42
		14	1.89	05/01/2024	09:45	40	1.18	05/01/2024	09:42
		15	1.77	03/01/2024	09:13	41	1.18	02/01/2024	13:45
		16	1.76	03/01/2024	09:53	42	1.16	05/01/2024	09:42
		17	1.70	05/01/2024	09:36	43	1.13	04/01/2024	11:31
		18	1.69	03/01/2024	09:09	44	1.11	05/01/2024	10:54
		19	1.69	03/01/2024	08:53	45	1.10	04/01/2024	08:30
		20	1.61	04/01/2024	09:03	46	1.09	04/01/2024	09:14
		21	1.61	03/01/2024	09:12	47	1.09	02/01/2024	09:32
		22	1.58	02/01/2024	13:35	48	1.05	02/01/2024	15:19
		23	1.56	04/01/2024	09:39	49	1.05	03/01/2024	08:38
		24	1.56	04/01/2024	09:00	50	1.05	04/01/2024	09:13
		25	1.54	03/01/2024	15:06	51	1.04	03/01/2024	15:09
		26	1.49	04/01/2024	17:44	52	1.00	04/01/2024	11:18
						53	0.97	02/01/2024	13:44

Location 3 – Time-history graph



3.11 There was 100% data coverage at Location 3 for the monitoring period covered by this report. There were 51 exceedances of the project vibration trigger level of 1 mm/s PPV as shown in the raw data and graph above. The vast majority of these exceedances are being caused by plant vehicles travelling along the haulage road which is directly in front of where the vibration monitor is

currently located. These movements are unavoidable and there are no reasonably practicable measures that the site team can implement to reduce these emissions at this time.

Location 4 – Raw data

- 3.12 There was 0% data coverage at Location 4 for the monitoring period covered by this report due to a depleted battery. The site team have arranged to replace the battery with the resident next week so data collection can resume.

Location 4 – Time-history graph

- 3.13 There was 0% data coverage at Location 4 for the monitoring period covered by this report due to a depleted battery. The site team have arranged to replace the battery with the resident next week so data collection can resume.