

Holloway Park, London

Construction Monitoring Report

Client: London Square
Ref: CM99-22405-R0
Date: 13 February 2025
Note by: Anthony Coraci, MSc DipIOA MIOA, Senior Acoustics Consultant

1. INTRODUCTION

1.1 This Technical Note sets out results of the construction monitoring being carried out at the above site between Monday 13th January & Saturday 25th January 2025. The monitoring is being carried out in general agreement with the methodology in the current Section 61 Consent between the London Borough of Islington and OHOB.

2. SITE ACTIVITIES

2.1 The following activities have been carried during the period covered by this report, in addition to the usual use of the Haul Road with site vehicles, and mobile plant used around the site:

OHOB

- Work continuing on the Block C & D decking
- Installation of drainage at Blocks D & E
- Installation of pile caps & beams – Block E1
- Vertical elements being constructed at first to second floor levels – Block C2
- Constructing slab at Level 1 of Block D1 & D2

3. MONITORING DATA

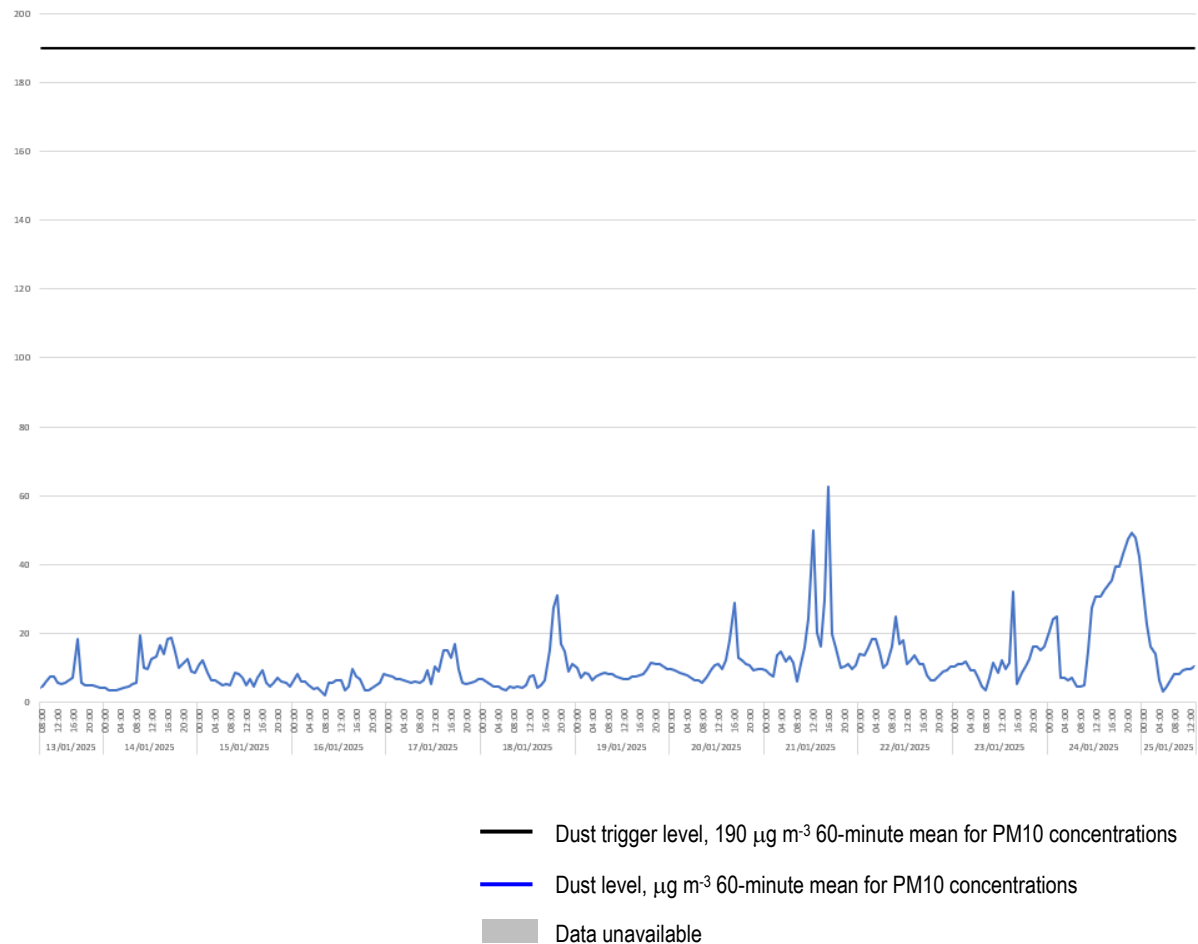
3.1 This section sets out a summary of the monitoring data that has been recorded onsite and provides a discussion of any exceedances and best practicable means incorporated by the site team if exceedances were believed to be construction related.

Dust Monitoring Results

Location 1 (meter ref. TNO4728)

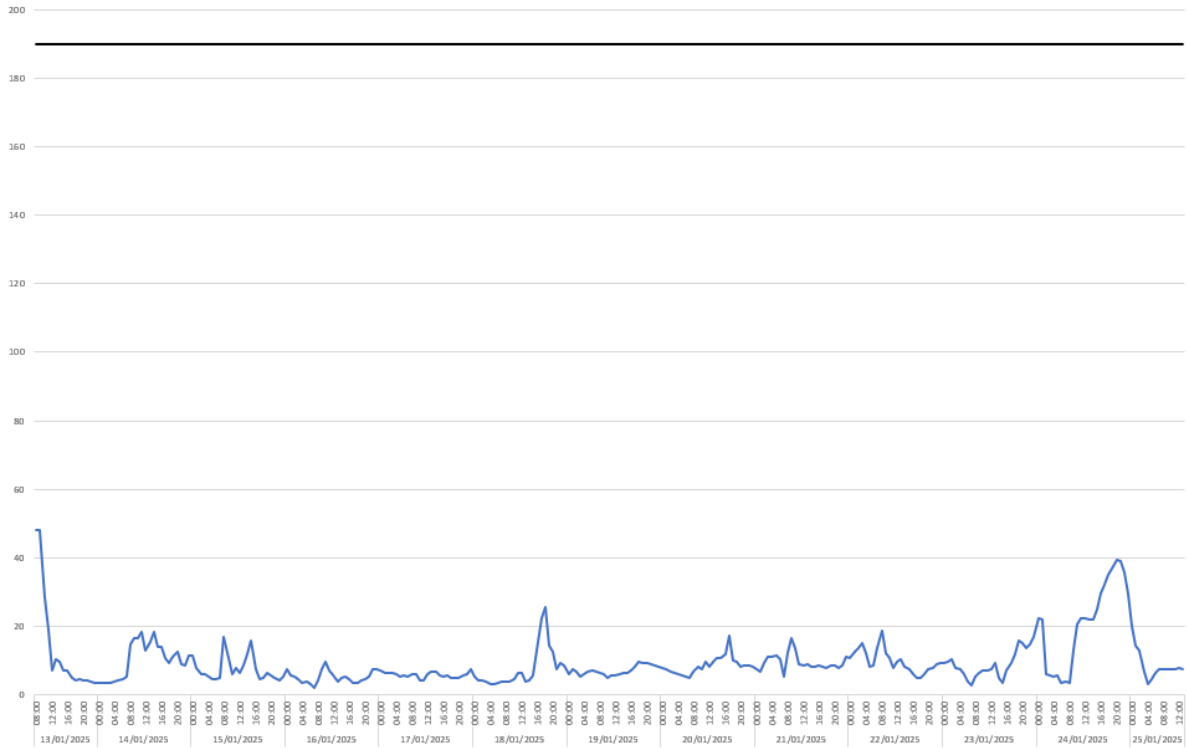
3.2 The dust monitor at this location was temporarily removed from site on Friday 10th January, due to the site hoarding at this location needing to be repositioned. This monitor has since been reinstalled, during a site visit which took place during the week commencing 27th January.

Location 2 (meter ref. TNO4778)



3.3 There was 100% data coverage at Location 2 during construction hours for the monitoring period covered by this report. No exceedances of the project dust trigger level of 190 micrograms per cubic meter were recorded at this location during the monitoring period covered by this report.

Location 3 (meter ref. TNO4475)



- 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

3.4 There was 100% data coverage at Location 3 during construction hours for the monitoring period covered by this report. No exceedances of the project dust trigger level of 190 micrograms per cubic meter were recorded at this location during the monitoring period covered by this report.

Noise Monitoring Results

Location 1 (meter ref. SMENK-9E5DF)

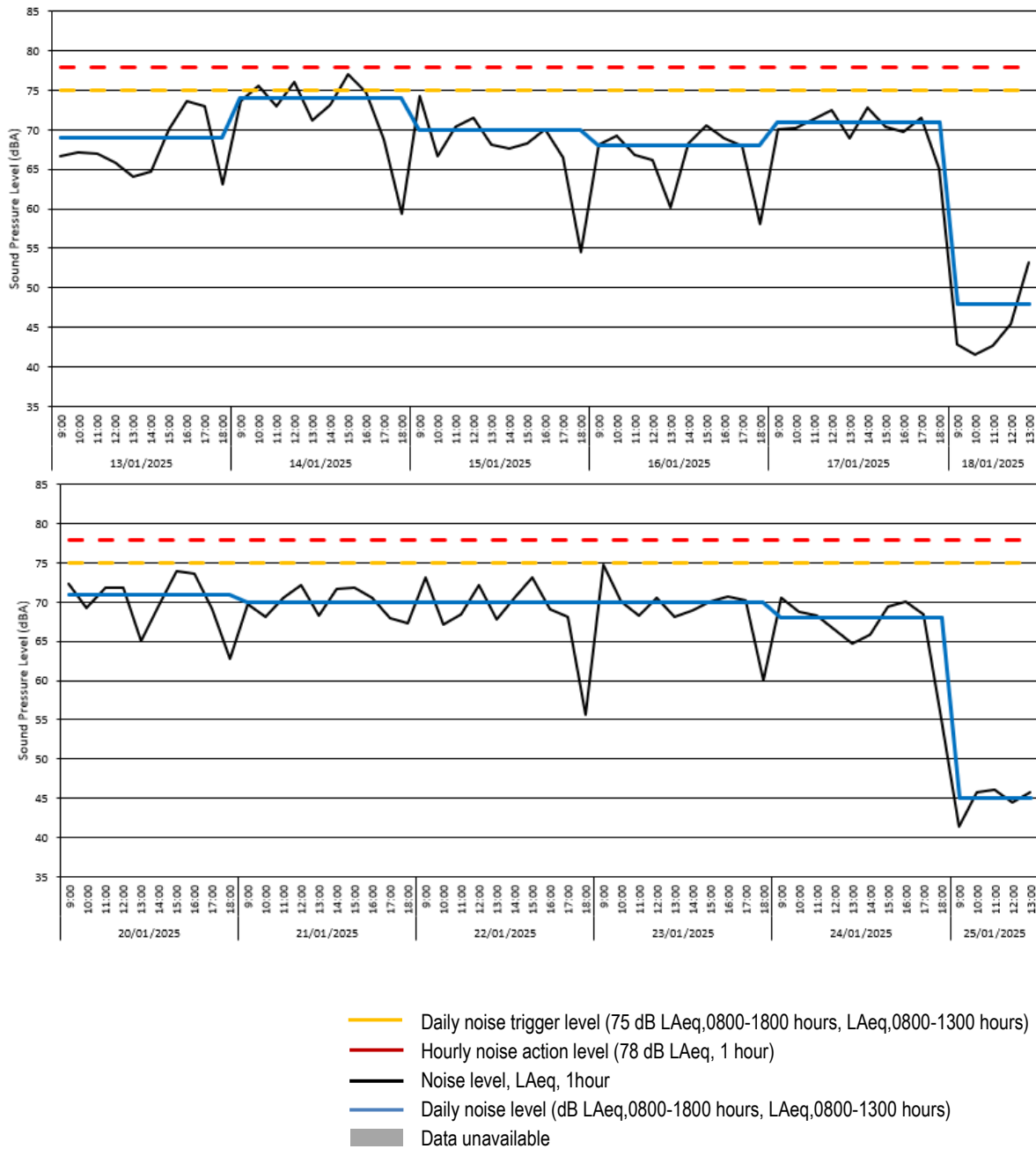
3.5 The noise monitor at this location was temporarily removed from site on Friday 10th January, due to the site hoarding at this location needing to be repositioned. This monitor has since been reinstated, during a site visit which took place during the week commencing 27th January.



Location 2 (meter ref. VFHMP-7XSY7)

# Broadband Results				
Date	Time	LAeq(60min)	LAeq(10hr)	LAeq(5hr)
[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]
2025-01-13	09:00:00	66.7	--	--
2025-01-13	10:00:00	67.1	--	--
2025-01-13	11:00:00	67.0	--	--
2025-01-13	12:00:00	65.8	--	--
2025-01-13	13:00:00	64.1	--	--
2025-01-13	14:00:00	64.7	--	--
2025-01-13	15:00:00	70.0	--	--
2025-01-13	16:00:00	73.7	--	--
2025-01-13	17:00:00	73.0	--	--
2025-01-13	18:00:00	63.1	69.0	--
2025-01-14	09:00:00	73.7	--	--
2025-01-14	10:00:00	75.5	--	--
2025-01-14	11:00:00	73.0	--	--
2025-01-14	12:00:00	76.1	--	--
2025-01-14	13:00:00	71.2	--	--
2025-01-14	14:00:00	73.1	--	--
2025-01-14	15:00:00	77.1	--	--
2025-01-14	16:00:00	74.7	--	--
2025-01-14	17:00:00	68.8	--	--
2025-01-14	18:00:00	59.4	73.9	--
2025-01-15	09:00:00	74.2	--	--
2025-01-15	10:00:00	66.6	--	--
2025-01-15	11:00:00	70.4	--	--
2025-01-15	12:00:00	71.5	--	--
2025-01-15	13:00:00	68.1	--	--
2025-01-15	14:00:00	67.6	--	--
2025-01-15	15:00:00	68.3	--	--
2025-01-15	16:00:00	70.0	--	--
2025-01-15	17:00:00	66.5	--	--
2025-01-15	18:00:00	54.5	69.5	--
2025-01-16	09:00:00	68.2	--	--
2025-01-16	10:00:00	69.2	--	--
2025-01-16	11:00:00	66.9	--	--
2025-01-16	12:00:00	66.2	--	--
2025-01-16	13:00:00	60.2	--	--
2025-01-16	14:00:00	68.3	--	--
2025-01-16	15:00:00	70.6	--	--
2025-01-16	16:00:00	68.9	--	--
2025-01-16	17:00:00	67.9	--	--
2025-01-16	18:00:00	58.1	67.6	--
2025-01-17	09:00:00	70.0	--	--
2025-01-17	10:00:00	70.3	--	--
2025-01-17	11:00:00	71.4	--	--
2025-01-17	12:00:00	72.5	--	--
2025-01-17	13:00:00	69.0	--	--
2025-01-17	14:00:00	72.8	--	--
2025-01-17	15:00:00	70.4	--	--
2025-01-17	16:00:00	69.8	--	--
2025-01-17	17:00:00	71.6	--	--
2025-01-17	18:00:00	65.0	70.7	--
2025-01-18	09:00:00	42.9	--	--
2025-01-18	10:00:00	41.5	--	--
2025-01-18	11:00:00	42.7	--	--
2025-01-18	12:00:00	45.5	--	--
2025-01-18	13:00:00	53.2	--	47.7
2025-01-19	18:00:00	--	42.6	--
2025-01-20	09:00:00	72.3	--	--
2025-01-20	10:00:00	69.2	--	--
2025-01-20	11:00:00	71.8	--	--
2025-01-20	12:00:00	71.8	--	--
2025-01-20	13:00:00	65.1	--	--
2025-01-20	14:00:00	69.6	--	--
2025-01-20	15:00:00	73.9	--	--
2025-01-20	16:00:00	73.7	--	--
2025-01-20	17:00:00	69.1	--	--
2025-01-20	18:00:00	62.8	71.0	--
2025-01-21	09:00:00	69.8	--	--
2025-01-21	10:00:00	68.1	--	--
2025-01-21	11:00:00	70.5	--	--
2025-01-21	12:00:00	72.2	--	--
2025-01-21	13:00:00	68.3	--	--
2025-01-21	14:00:00	71.7	--	--
2025-01-21	15:00:00	71.9	--	--
2025-01-21	16:00:00	70.6	--	--
2025-01-21	17:00:00	67.9	--	--
2025-01-21	18:00:00	67.3	70.1	--
2025-01-22	09:00:00	73.2	--	--
2025-01-22	10:00:00	67.1	--	--
2025-01-22	11:00:00	68.4	--	--
2025-01-22	12:00:00	72.1	--	--
2025-01-22	13:00:00	67.8	--	--
2025-01-22	14:00:00	70.6	--	--
2025-01-22	15:00:00	73.2	--	--
2025-01-22	16:00:00	69.1	--	--
2025-01-22	17:00:00	68.2	--	--
2025-01-22	18:00:00	55.7	70.1	--
2025-01-23	09:00:00	74.8	--	--
2025-01-23	10:00:00	70.1	--	--
2025-01-23	11:00:00	68.3	--	--
2025-01-23	12:00:00	70.5	--	--
2025-01-23	13:00:00	68.1	--	--
2025-01-23	14:00:00	68.9	--	--
2025-01-23	15:00:00	70.1	--	--
2025-01-23	16:00:00	70.7	--	--
2025-01-23	17:00:00	70.3	--	--
2025-01-23	18:00:00	60.1	70.3	--
2025-01-24	09:00:00	70.6	--	--
2025-01-24	10:00:00	68.8	--	--
2025-01-24	11:00:00	68.3	--	--
2025-01-24	12:00:00	66.5	--	--
2025-01-24	13:00:00	64.8	--	--
2025-01-24	14:00:00	65.8	--	--
2025-01-24	15:00:00	69.4	--	--
2025-01-24	16:00:00	70.1	--	--
2025-01-24	17:00:00	68.5	--	--
2025-01-24	18:00:00	55.1	68.0	--
2025-01-25	09:00:00	41.4	--	--
2025-01-25	10:00:00	45.8	--	--
2025-01-25	11:00:00	46.1	--	--
2025-01-25	12:00:00	44.5	--	--
2025-01-25	13:00:00	45.8	--	45.0

Location 2 (meter ref. VFHMP-7XSY7) – Time History Data

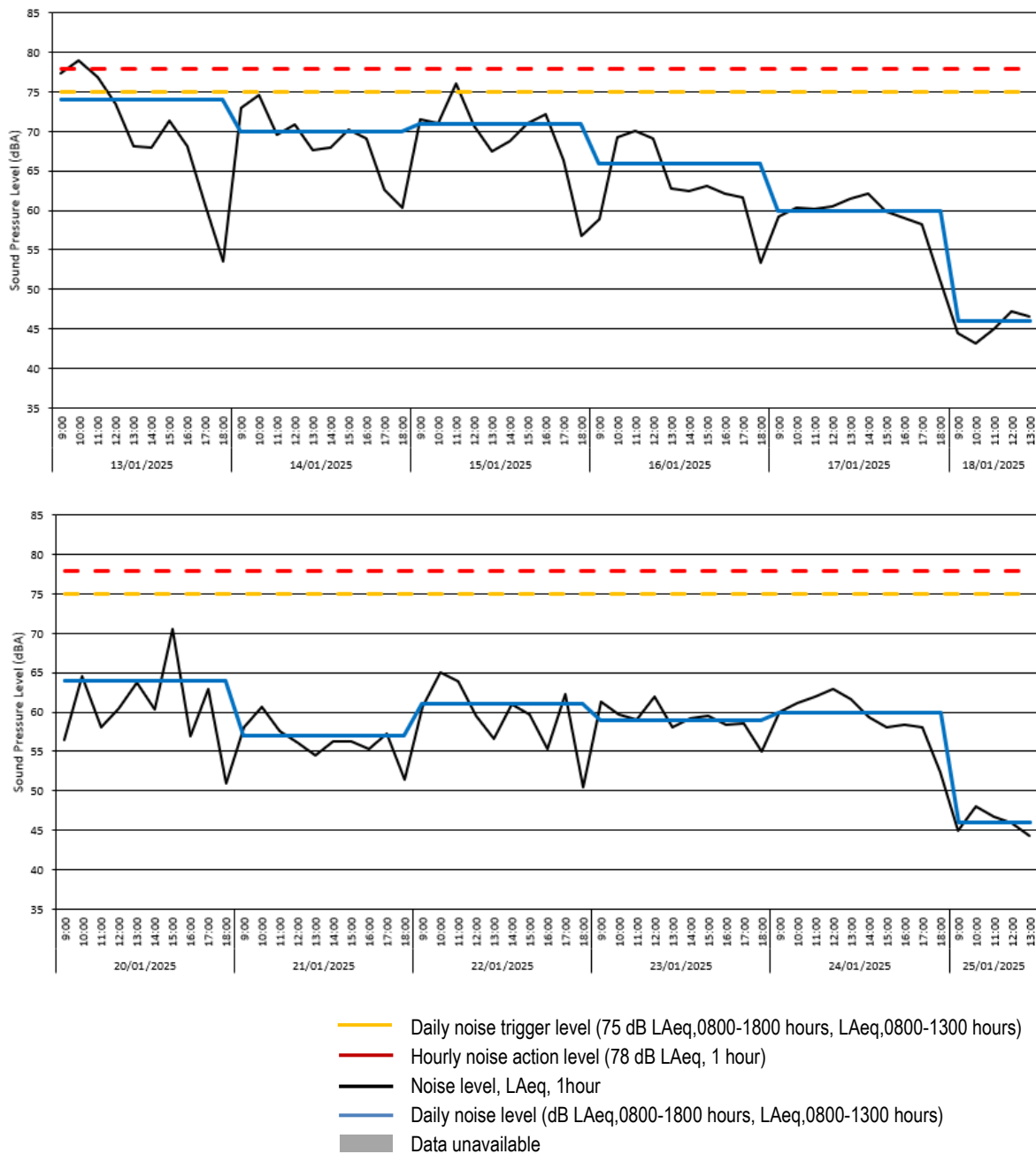


3.6 There was 100% data coverage at Location 2 during construction hours for the monitoring period covered by this report. No exceedances of the project daily or hourly noise trigger level of 75 dB and 78 dB LAeq,T were recorded during the monitoring period covered by this report.

Location 3 (meter ref. P5DLY-N3J7A) – Raw Data

# Broadband Results				
Date	Time	LAeq(60min)	LAeq(10hr)	LAeq(5hr)
[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]
2025-01-13	09:00:00	77.3	--	--
2025-01-13	10:00:00	79.0	--	--
2025-01-13	11:00:00	76.8	--	--
2025-01-13	12:00:00	73.4	--	--
2025-01-13	13:00:00	68.2	--	--
2025-01-13	14:00:00	67.9	--	--
2025-01-13	15:00:00	71.3	--	--
2025-01-13	16:00:00	68.1	--	--
2025-01-13	17:00:00	60.6	--	--
2025-01-13	18:00:00	53.5	73.8	--
2025-01-14	09:00:00	73.0	--	--
2025-01-14	10:00:00	74.6	--	--
2025-01-14	11:00:00	69.6	--	--
2025-01-14	12:00:00	70.9	--	--
2025-01-14	13:00:00	67.6	--	--
2025-01-14	14:00:00	68.0	--	--
2025-01-14	15:00:00	70.3	--	--
2025-01-14	16:00:00	69.1	--	--
2025-01-14	17:00:00	62.6	--	--
2025-01-14	18:00:00	60.3	70.2	--
2025-01-15	09:00:00	71.6	--	--
2025-01-15	10:00:00	71.1	--	--
2025-01-15	11:00:00	76.1	--	--
2025-01-15	12:00:00	70.7	--	--
2025-01-15	13:00:00	67.4	--	--
2025-01-15	14:00:00	68.7	--	--
2025-01-15	15:00:00	71.0	--	--
2025-01-15	16:00:00	72.1	--	--
2025-01-15	17:00:00	66.4	--	--
2025-01-15	18:00:00	56.8	71.0	--
2025-01-16	09:00:00	58.9	--	--
2025-01-16	10:00:00	69.2	--	--
2025-01-16	11:00:00	70.0	--	--
2025-01-16	12:00:00	69.1	--	--
2025-01-16	13:00:00	62.7	--	--
2025-01-16	14:00:00	62.4	--	--
2025-01-16	15:00:00	63.1	--	--
2025-01-16	16:00:00	62.2	--	--
2025-01-16	17:00:00	61.6	--	--
2025-01-16	18:00:00	53.4	65.6	--
2025-01-17	09:00:00	59.2	--	--
2025-01-17	10:00:00	60.4	--	--
2025-01-17	11:00:00	60.2	--	--
2025-01-17	12:00:00	60.5	--	--
2025-01-17	13:00:00	61.5	--	--
2025-01-17	14:00:00	62.2	--	--
2025-01-17	15:00:00	59.9	--	--
2025-01-17	16:00:00	59.0	--	--
2025-01-17	17:00:00	58.3	--	--
2025-01-17	18:00:00	51.3	59.9	--
2025-01-18	09:00:00	44.4	--	--
2025-01-18	10:00:00	43.1	--	--
2025-01-18	11:00:00	44.9	--	--
2025-01-18	12:00:00	47.2	--	--
2025-01-18	13:00:00	46.5	--	45.5
2025-01-19	18:00:00	--	45.9	--
2025-01-20	09:00:00	56.5	--	--
2025-01-20	10:00:00	64.5	--	--
2025-01-20	11:00:00	58.1	--	--
2025-01-20	12:00:00	60.5	--	--
2025-01-20	13:00:00	63.7	--	--
2025-01-20	14:00:00	60.3	--	--
2025-01-20	15:00:00	70.6	--	--
2025-01-20	16:00:00	57.0	--	--
2025-01-20	17:00:00	62.9	--	--
2025-01-20	18:00:00	50.9	63.5	--
2025-01-21	09:00:00	58.0	--	--
2025-01-21	10:00:00	60.7	--	--
2025-01-21	11:00:00	57.6	--	--
2025-01-21	12:00:00	56.1	--	--
2025-01-21	13:00:00	54.5	--	--
2025-01-21	14:00:00	56.3	--	--
2025-01-21	15:00:00	56.3	--	--
2025-01-21	16:00:00	55.3	--	--
2025-01-21	17:00:00	55.3	--	--
2025-01-21	17:00:00	57.3	--	--
2025-01-21	18:00:00	51.5	57.0	--
2025-01-22	09:00:00	60.6	--	--
2025-01-22	10:00:00	65.1	--	--
2025-01-22	11:00:00	63.9	--	--
2025-01-22	12:00:00	59.5	--	--
2025-01-22	13:00:00	56.6	--	--
2025-01-22	14:00:00	61.0	--	--
2025-01-22	15:00:00	59.7	--	--
2025-01-22	16:00:00	55.4	--	--
2025-01-22	17:00:00	62.3	--	--
2025-01-22	18:00:00	50.5	61.0	--
2025-01-23	09:00:00	61.3	--	--
2025-01-23	10:00:00	59.7	--	--
2025-01-23	11:00:00	59.0	--	--
2025-01-23	12:00:00	61.9	--	--
2025-01-23	13:00:00	58.0	--	--
2025-01-23	14:00:00	59.2	--	--
2025-01-23	15:00:00	59.6	--	--
2025-01-23	16:00:00	58.4	--	--
2025-01-23	17:00:00	58.5	--	--
2025-01-23	18:00:00	55.0	59.4	--
2025-01-24	09:00:00	60.1	--	--
2025-01-24	10:00:00	61.2	--	--
2025-01-24	11:00:00	61.9	--	--
2025-01-24	12:00:00	63.0	--	--
2025-01-24	13:00:00	61.7	--	--
2025-01-24	14:00:00	59.3	--	--
2025-01-24	15:00:00	58.1	--	--
2025-01-24	16:00:00	58.4	--	--
2025-01-24	17:00:00	58.1	--	--
2025-01-24	18:00:00	52.4	60.2	--
2025-01-25	09:00:00	44.9	--	--
2025-01-25	10:00:00	48.0	--	--
2025-01-25	11:00:00	46.8	--	--
2025-01-25	12:00:00	46.0	--	--
2025-01-25	13:00:00	44.3	--	46.2

Location 3 (meter ref. P5DLY-N3J7A) – Time-history graph



3.7 There was 100% data coverage at Location 3 during construction hours for the monitoring period covered by this report.

3.8 There was one exceedance of the hourly project noise limit of 78 dB LAeq,T. This occurred on Monday 13th Jan at 10:00, with a recorded level of 79 dB. This was likely caused by site vehicles operating within close proximity of the monitor. The timing of this exceedance also coincides with several of the higher vibration levels recorded at this position (discussed further below). No exceedances of the project daily noise criteria of 75 dB LAeq, T were recorded at this location during the monitoring period.

Vibration Monitoring Results

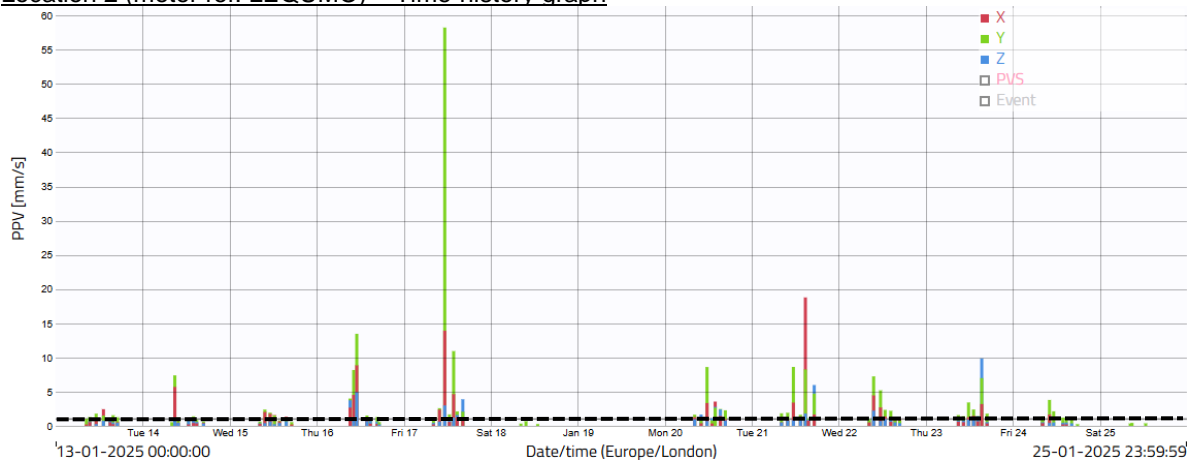
Location 1 (meter ref. PIJIVI)

3.9 The monitor was removed from site on Tuesday 19th November for its laboratory calibration. A site visit was carried out by Cass Allen on Friday 10th January. It was not possible to reinstall the vibration monitor at this location due to the site hoarding at this location needing to be repositioned. This monitor has since been reinstalled, during a site visit which took place during the week commencing 27th January.

Location 2 (meter ref. LEQUMO) – Raw data

Measuring point:	Period:	Order	Value	Date	Time	Order	Value	Date	Time	Order	Value	Date	Time
Holloway - L2	13/01/25 - 25/01/25	1	58.24	17/01/2025	11:18	31	3.23	22/01/2025	09:43	61	1.94	23/01/2025	16:20
		2	18.78	21/01/2025	14:46	32	3.05	16/01/2025	09:35	62	1.93	15/01/2025	11:08
Criteria mm/s PPV Exceedances		3	13.46	16/01/2025	11:02	33	2.98	21/01/2025	17:13	63	1.92	21/01/2025	14:51
1.0	332	4	12.33	16/01/2025	10:59	34	2.83	16/01/2025	10:19	64	1.91	21/01/2025	09:53
		5	10.93	17/01/2025	13:45	35	2.81	17/01/2025	16:40	65	1.91	23/01/2025	13:32
		6	9.86	23/01/2025	15:24	36	2.78	20/01/2025	14:10	66	1.90	17/01/2025	16:46
		7	8.62	21/01/2025	11:27	37	2.69	22/01/2025	11:20	67	1.86	21/01/2025	17:10
		8	8.60	20/01/2025	11:38	38	2.59	17/01/2025	09:51	68	1.84	21/01/2025	08:10
		9	8.17	16/01/2025	10:11	39	2.59	21/01/2025	17:08	69	1.82	22/01/2025	11:43
		10	7.76	16/01/2025	09:31	40	2.57	17/01/2025	13:42	70	1.82	17/01/2025	11:07
		11	7.64	16/01/2025	10:35	41	2.49	23/01/2025	15:28	71	1.79	13/01/2025	11:09
		12	7.39	14/01/2025	08:51	42	2.47	20/01/2025	15:13	72	1.78	23/01/2025	16:52
		13	7.24	22/01/2025	09:35	43	2.46	16/01/2025	10:24	73	1.75	21/01/2025	09:09
		14	5.97	21/01/2025	17:12	44	2.44	13/01/2025	13:10	74	1.73	17/01/2025	17:06
		15	5.81	16/01/2025	10:45	45	2.44	20/01/2025	15:19	75	1.72	20/01/2025	15:20
		16	5.37	16/01/2025	11:01	46	2.41	14/01/2025	08:47	76	1.72	17/01/2025	13:14
		17	5.19	22/01/2025	11:29	47	2.40	23/01/2025	13:09	77	1.70	21/01/2025	14:15
		18	4.90	21/01/2025	15:07	48	2.38	15/01/2025	09:41	78	1.69	21/01/2025	11:09
		19	4.70	14/01/2025	08:50	49	2.35	16/01/2025	09:23	79	1.68	17/01/2025	12:35
		20	4.68	16/01/2025	10:15	50	2.34	22/01/2025	12:45	80	1.66	20/01/2025	10:00
		21	4.42	16/01/2025	11:07	51	2.29	21/01/2025	15:08	81	1.66	24/01/2025	10:02
		22	4.34	21/01/2025	14:04	52	2.28	20/01/2025	16:41	82	1.66	17/01/2025	16:00
		23	4.20	16/01/2025	11:06	53	2.19	22/01/2025	14:19	83	1.65	17/01/2025	13:17
		24	4.00	16/01/2025	09:11	54	2.13	24/01/2025	11:14	84	1.65	23/01/2025	16:21
		25	3.89	17/01/2025	16:17	55	2.11	21/01/2025	14:09	85	1.64	17/01/2025	15:14
		26	3.80	24/01/2025	10:04	56	2.11	17/01/2025	14:44	86	1.63	20/01/2025	08:14
		27	3.71	21/01/2025	15:01	57	2.10	17/01/2025	16:47	87	1.63	17/01/2025	17:03
		28	3.55	20/01/2025	13:53	58	2.10	13/01/2025	13:09	88	1.62	20/01/2025	16:21
		29	3.42	23/01/2025	11:46	59	2.06	17/01/2025	09:34	89	1.62	20/01/2025	15:12
		30	3.31	16/01/2025	11:04	60	1.97	23/01/2025	13:08	90	1.62	21/01/2025	13:24

Location 2 (meter ref. LEQUMO) – Time-history graph



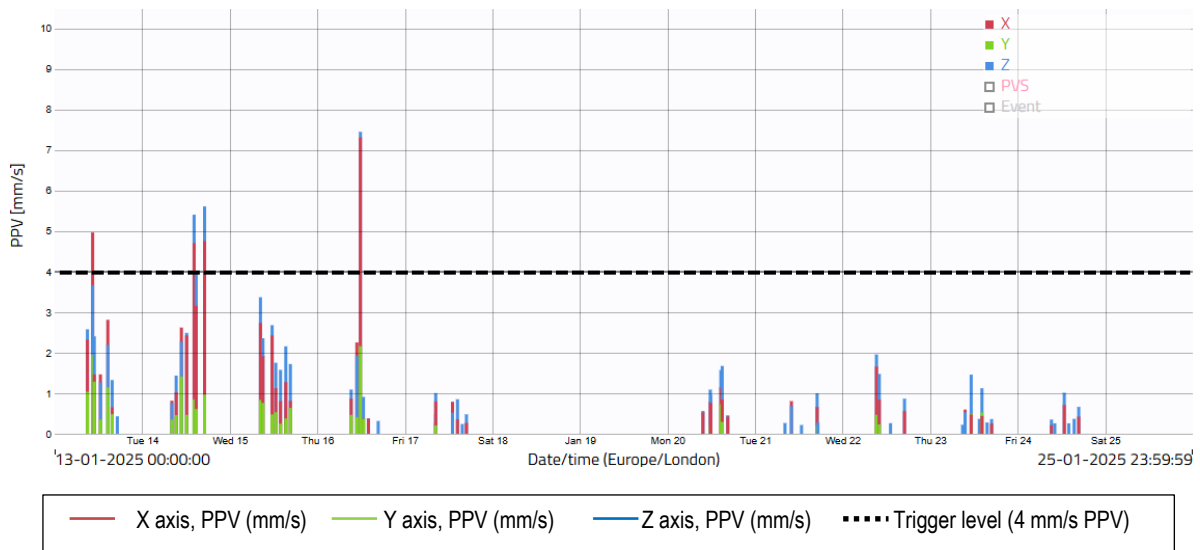
— X axis, PPV (mm/s) — Y axis, PPV (mm/s) — Z axis, PPV (mm/s) Trigger level (1 mm/s PPV)

3.10 There were 332 exceedances of the project vibration trigger level of 1.0 mm/s PPV, as shown in the raw data and graph above. Friday 17th January at 11:18, with a recorded level of 58.2 mm/s PPV. This was a standalone exceedance, as it can be seen from the graph and the results table above that no other similar measured levels were recorded on the day. Therefore, it was likely not to have been caused by continuous construction activity at the location. It is possible the meter may have been knocked by a nearby site operative. The remaining exceedances at this location were likely caused by either the drainage installation, or the pile cap & beams installation, at Block E. This will continue to be monitored.

Location 3 (meter ref. RIYORU) – Raw data

Measuring point:	Period:	Order	Value	Date	Time
Holloway - L3	13/01/25 - 25/01/25	1	7.45	16/01/2025	11:48
		2	5.61	14/01/2025	17:05
Criteria mm/s PPV Exceedances		3	5.40	14/01/2025	14:13
4.0	4	4	4.96	13/01/2025	10:24
		5	3.95	14/01/2025	14:47
		6	3.63	14/01/2025	15:52
		7	3.37	15/01/2025	08:24
		8	3.04	13/01/2025	09:18
		9	2.97	14/01/2025	16:40
		10	2.86	13/01/2025	10:20

Location 3 (meter ref. RIYORU) – Time-history graph



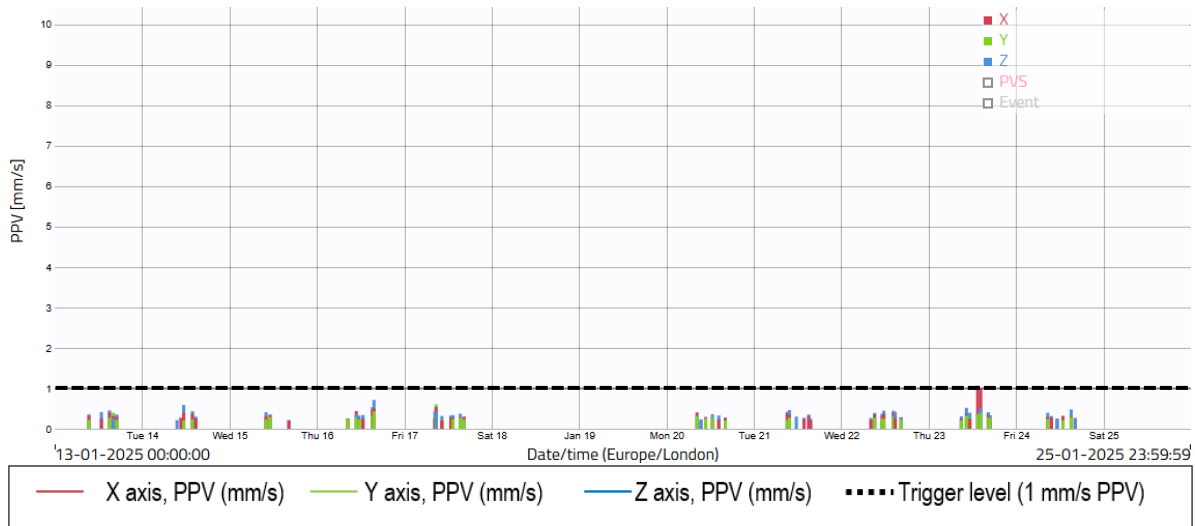
3.11 There was 100% data coverage at Location 3 during construction hours for the monitoring period covered by this report. There were four exceedances of the project vibration trigger level of 4.0 mm/s PPV, as shown in the raw data and graph above.

3.12 The highest level recorded was on Thursday 16th January at 11:48, with a recorded level of 7.4 mm/s PPV. The exceedances at this location were likely to have been caused by the movement of site vehicles in the vicinity of the vibration sensor. This will continue to be monitored.

Location 4 (meter ref. TEJELU) – Raw data

Measuring point:	Period:	Order	Value	Date	Time
Holloway - L4	13/01/25 - 25/01/25	1	1.06	23/01/2025	13:27
		2	1.00	23/01/2025	14:16
Criteria mm/s PPV Exceedances		3	0.90	23/01/2025	14:02
1.0	1	4	0.71	16/01/2025	15:40
		5	0.60	17/01/2025	08:43
		6	0.59	14/01/2025	11:25
		7	0.57	23/01/2025	14:11
		8	0.54	23/01/2025	14:15
		9	0.53	16/01/2025	15:15
		10	0.52	14/01/2025	11:23

Location 4 (meter ref. TEJELU) – Time-history graph



3.13 There was 100% data coverage at Location 4 during construction hours for the monitoring period covered by this report. There was one exceedance of the project vibration trigger level of 1.0 mm/s PPV during the monitoring period covered by this report. This occurred on Thursday 23rd January at 13:27, with a recorded level of 1.1 mm/s PPV. It is worth noting that this was a standalone exceedance at this location for the monitoring period, which was marginally over the vibration trigger level of 1.0 mm/s. This will continue to be monitored.