

Holloway Park, London

Construction Monitoring Report

Client: London Square
Ref: CM96-22405-R0
Date: 19 December 2024
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 25th November & Saturday 7th December 2024. 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

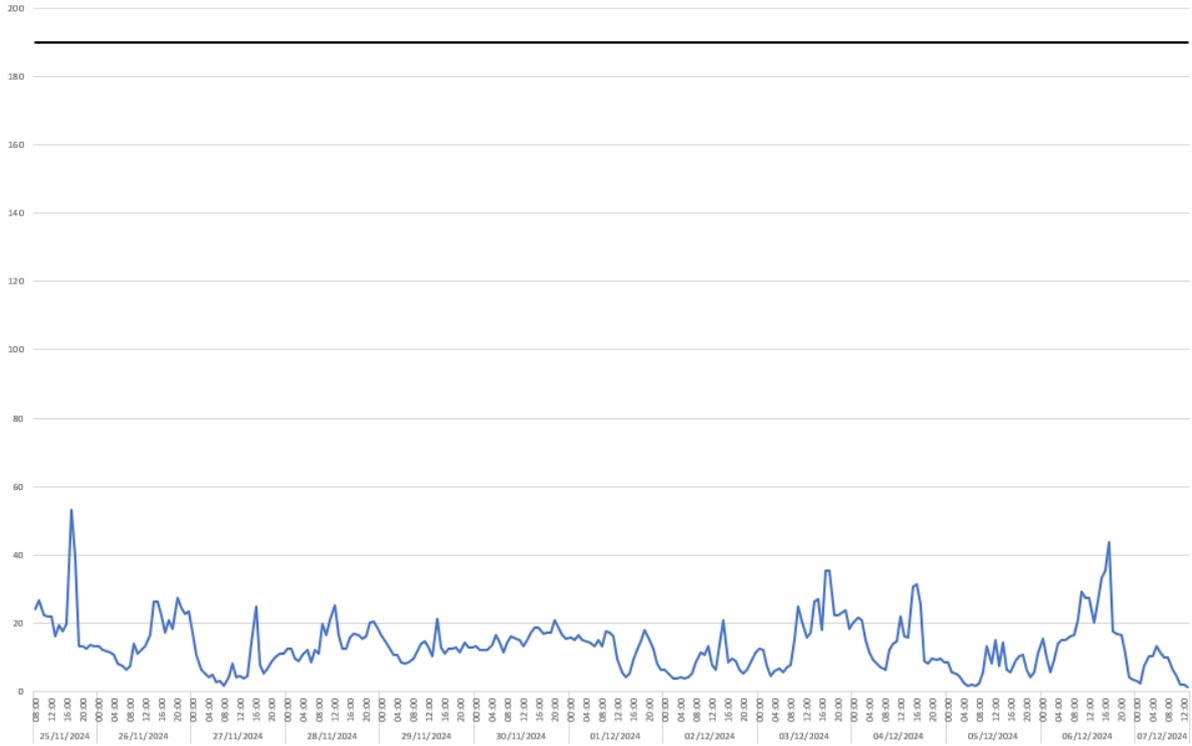
- Work continuing on the Block C & D decking
- Installation of drainage at Blocks D & E
- Installation of pile caps & beams – Block E2
- Vertical elements being constructed at ground to second floor levels – Block C2

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

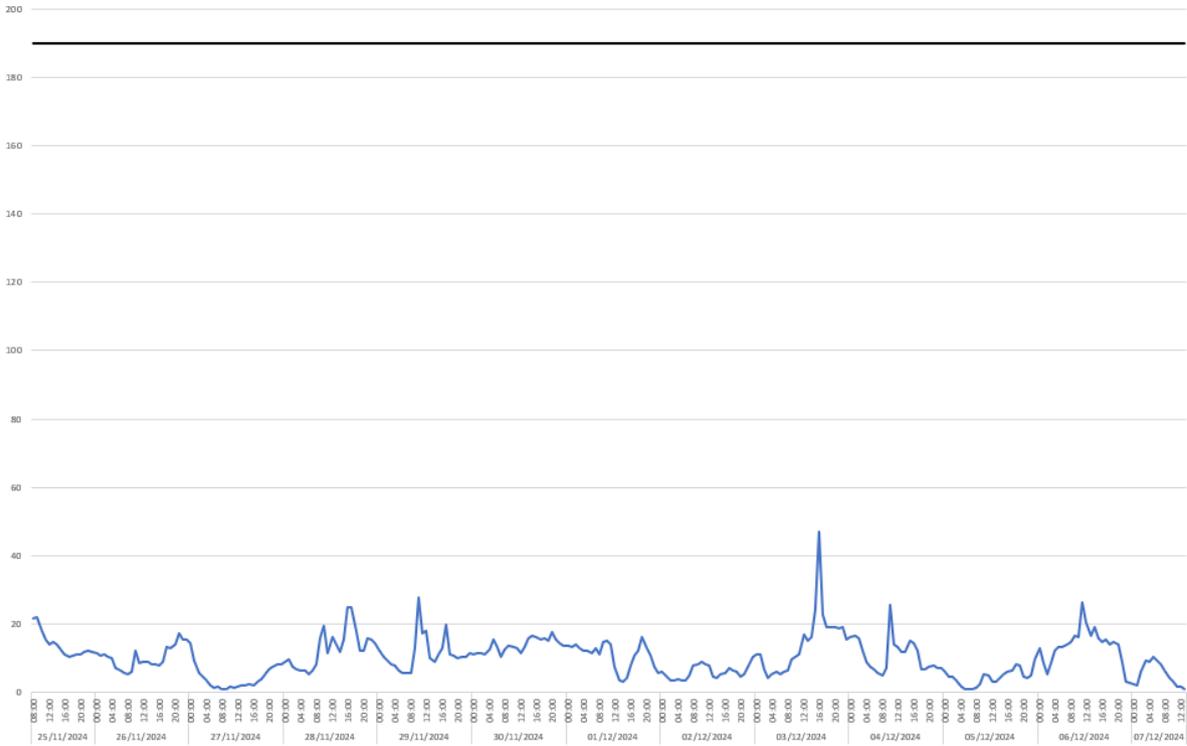
Location 1 (meter ref. TNO4728)



- 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

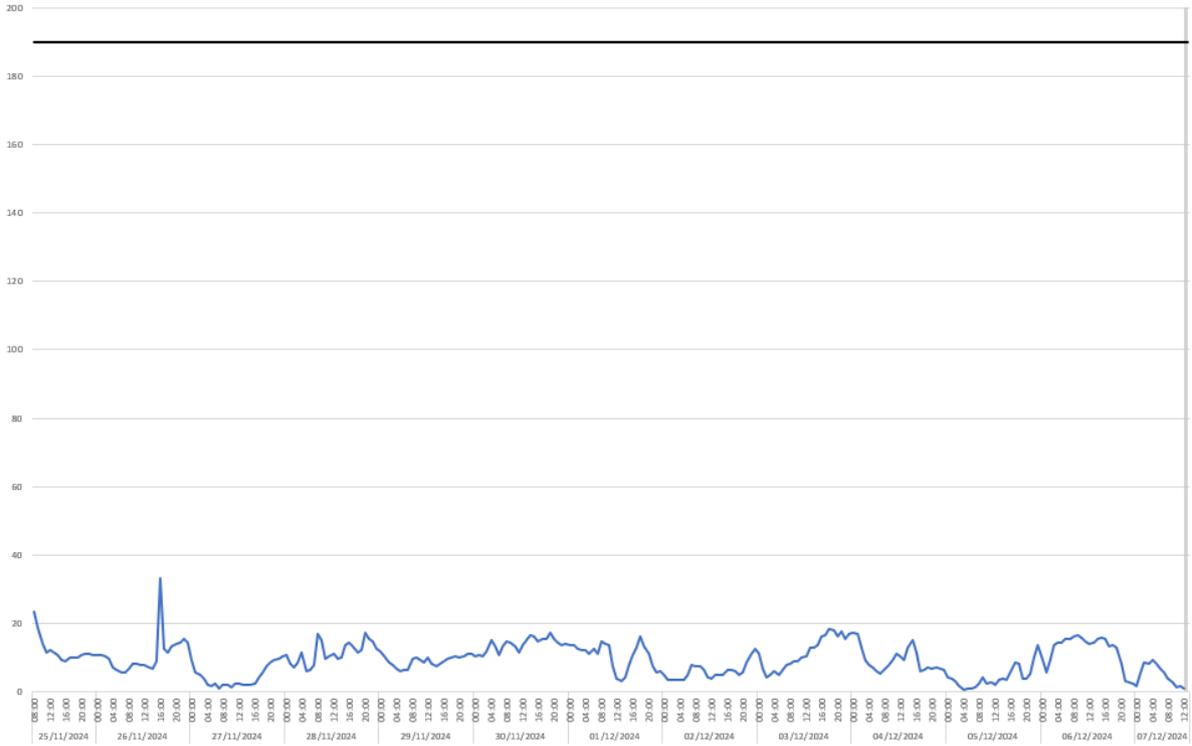
- 3.2 There was 100% data coverage at Location 1 during construction hours for the monitoring period covered by this report.
- 3.3 No exceedances of the project dust trigger level of 190 micrograms per cubic meter were recorded at this location during the monitoring period covered by this report.

Location 2 (meter ref. TNO4778)



- 3.4 There was 100% data coverage at Location 2 during construction hours for the monitoring period covered by this report.
- 3.5 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

- 3.6 There was 99% data coverage at Location 3 during construction hours for the monitoring period covered by this report. The monitor went offline after 12:00 on Saturday 7th December.
- 3.7 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)

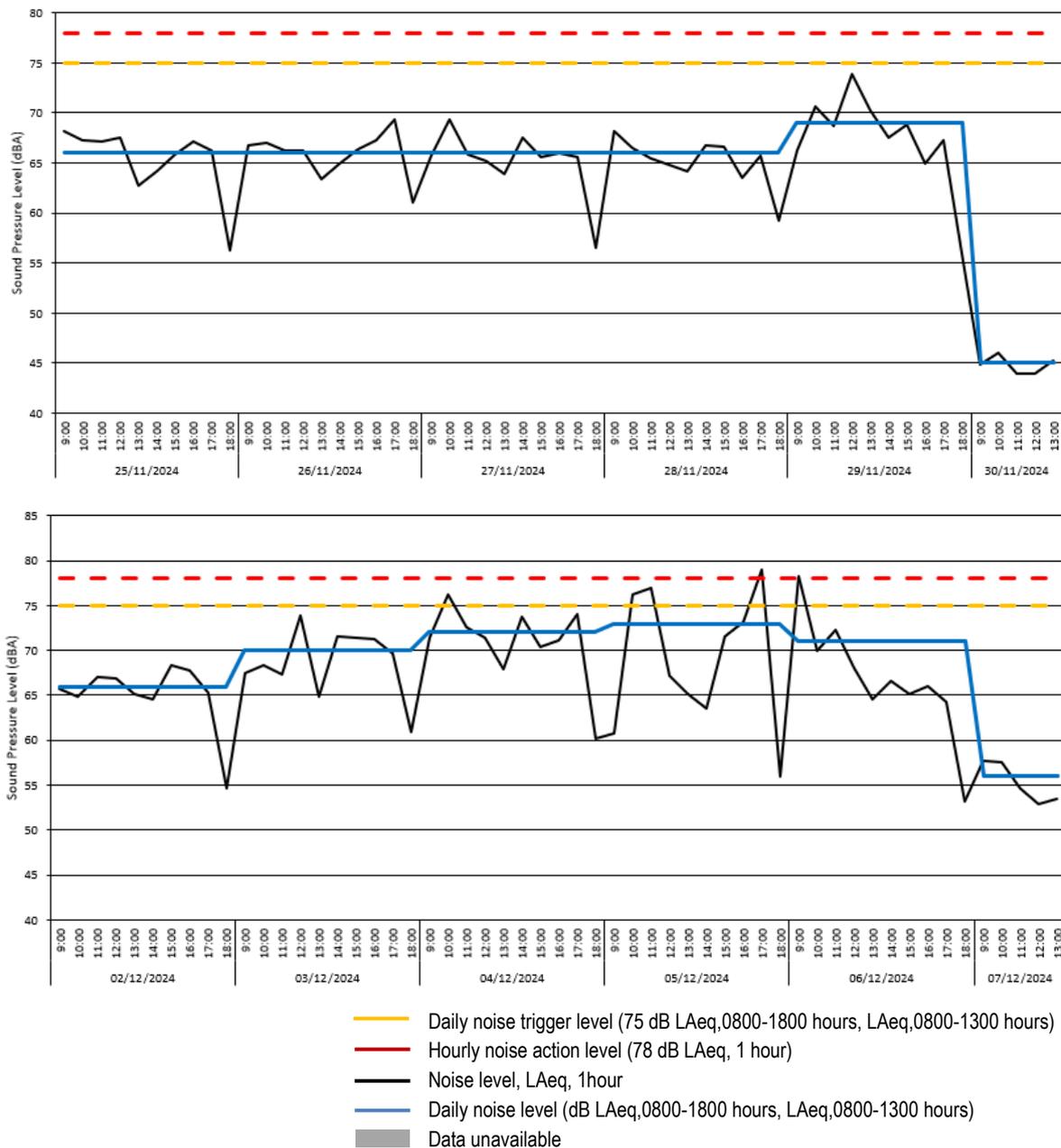
- 3.8 The monitor was removed from site at 14:00 on Tuesday 19th November for its laboratory calibration. This will be returned to site as soon as the calibration is complete.



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]
2024-11-25	09:00:00	68.2	--	--
2024-11-25	10:00:00	67.3	--	--
2024-11-25	11:00:00	67.2	--	--
2024-11-25	12:00:00	67.5	--	--
2024-11-25	13:00:00	62.8	--	--
2024-11-25	14:00:00	64.2	--	--
2024-11-25	15:00:00	65.9	--	--
2024-11-25	16:00:00	67.1	--	--
2024-11-25	17:00:00	66.2	--	--
2024-11-25	18:00:00	56.2	66.1	--
2024-11-26	09:00:00	66.7	--	--
2024-11-26	10:00:00	67.0	--	--
2024-11-26	11:00:00	66.3	--	--
2024-11-26	12:00:00	66.3	--	--
2024-11-26	13:00:00	63.4	--	--
2024-11-26	14:00:00	65.0	--	--
2024-11-26	15:00:00	66.4	--	--
2024-11-26	16:00:00	67.3	--	--
2024-11-26	17:00:00	69.4	--	--
2024-11-26	18:00:00	61.1	66.4	--
2024-11-27	09:00:00	65.7	--	--
2024-11-27	10:00:00	69.4	--	--
2024-11-27	11:00:00	65.8	--	--
2024-11-27	12:00:00	65.2	--	--
2024-11-27	13:00:00	63.9	--	--
2024-11-27	14:00:00	67.5	--	--
2024-11-27	15:00:00	65.6	--	--
2024-11-27	16:00:00	66.0	--	--
2024-11-27	17:00:00	65.6	--	--
2024-11-27	18:00:00	56.5	65.9	--
2024-11-28	09:00:00	68.2	--	--
2024-11-28	10:00:00	66.5	--	--
2024-11-28	11:00:00	65.5	--	--
2024-11-28	12:00:00	64.8	--	--
2024-11-28	13:00:00	64.1	--	--
2024-11-28	14:00:00	66.7	--	--
2024-11-28	15:00:00	66.6	--	--
2024-11-28	16:00:00	63.5	--	--
2024-11-28	17:00:00	65.7	--	--
2024-11-28	18:00:00	59.3	65.6	--
2024-11-29	09:00:00	66.3	--	--
2024-11-29	10:00:00	70.6	--	--
2024-11-29	11:00:00	68.7	--	--
2024-11-29	12:00:00	73.9	--	--
2024-11-29	13:00:00	70.3	--	--
2024-11-29	14:00:00	67.5	--	--
2024-11-29	15:00:00	68.8	--	--
2024-11-29	16:00:00	65.0	--	--
2024-11-29	17:00:00	67.3	--	--
2024-11-29	18:00:00	56.0	69.1	--
2024-11-30	09:00:00	44.8	--	--
2024-11-30	10:00:00	46.0	--	--
2024-11-30	11:00:00	43.9	--	--
2024-11-30	12:00:00	43.9	--	--
2024-11-30	13:00:00	45.3	--	44.8
2024-12-01	18:00:00	-	48.0	--
2024-12-02	09:00:00	65.7	--	--
2024-12-02	10:00:00	64.8	--	--
2024-12-02	11:00:00	67.1	--	--
2024-12-02	12:00:00	66.9	--	--
2024-12-02	13:00:00	65.1	--	--
2024-12-02	14:00:00	64.5	--	--
2024-12-02	15:00:00	68.4	--	--
2024-12-02	16:00:00	67.8	--	--
2024-12-02	17:00:00	65.3	--	--
2024-12-02	18:00:00	54.7	66.0	--
2024-12-03	09:00:00	67.5	--	--
2024-12-03	10:00:00	68.4	--	--
2024-12-03	11:00:00	67.3	--	--
2024-12-03	12:00:00	73.9	--	--
2024-12-03	13:00:00	64.9	--	--
2024-12-03	14:00:00	71.6	--	--
2024-12-03	15:00:00	71.4	--	--
2024-12-03	16:00:00	71.2	--	--
2024-12-03	17:00:00	69.7	--	--
2024-12-03	18:00:00	60.9	69.9	--
2024-12-04	09:00:00	71.4	--	--
2024-12-04	10:00:00	76.2	--	--
2024-12-04	11:00:00	72.6	--	--
2024-12-04	12:00:00	71.4	--	--
2024-12-04	13:00:00	67.9	--	--
2024-12-04	14:00:00	73.8	--	--
2024-12-04	15:00:00	70.4	--	--
2024-12-04	16:00:00	71.1	--	--
2024-12-04	17:00:00	74.0	--	--
2024-12-04	18:00:00	60.2	72.2	--
2024-12-05	09:00:00	60.8	--	--
2024-12-05	10:00:00	76.2	--	--
2024-12-05	11:00:00	77.0	--	--
2024-12-05	12:00:00	67.2	--	--
2024-12-05	13:00:00	65.1	--	--
2024-12-05	14:00:00	63.6	--	--
2024-12-05	15:00:00	71.5	--	--
2024-12-05	16:00:00	73.2	--	--
2024-12-05	17:00:00	79.0	--	--
2024-12-05	18:00:00	55.9	73.4	--
2024-12-06	09:00:00	78.2	--	--
2024-12-06	10:00:00	69.9	--	--
2024-12-06	11:00:00	72.3	--	--
2024-12-06	12:00:00	68.1	--	--
2024-12-06	13:00:00	64.6	--	--
2024-12-06	14:00:00	66.6	--	--
2024-12-06	15:00:00	65.2	--	--
2024-12-06	16:00:00	66.0	--	--
2024-12-06	17:00:00	64.3	--	--
2024-12-06	18:00:00	53.2	70.7	--
2024-12-07	09:00:00	57.7	--	--
2024-12-07	10:00:00	57.5	--	--
2024-12-07	11:00:00	54.7	--	--
2024-12-07	12:00:00	52.9	--	--
2024-12-07	13:00:00	53.5	--	55.7

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

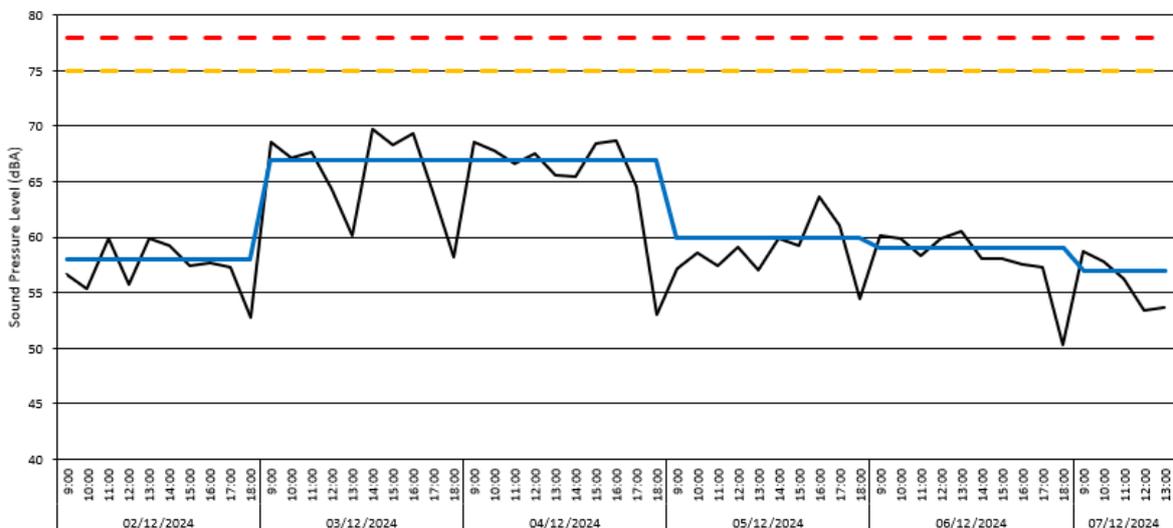
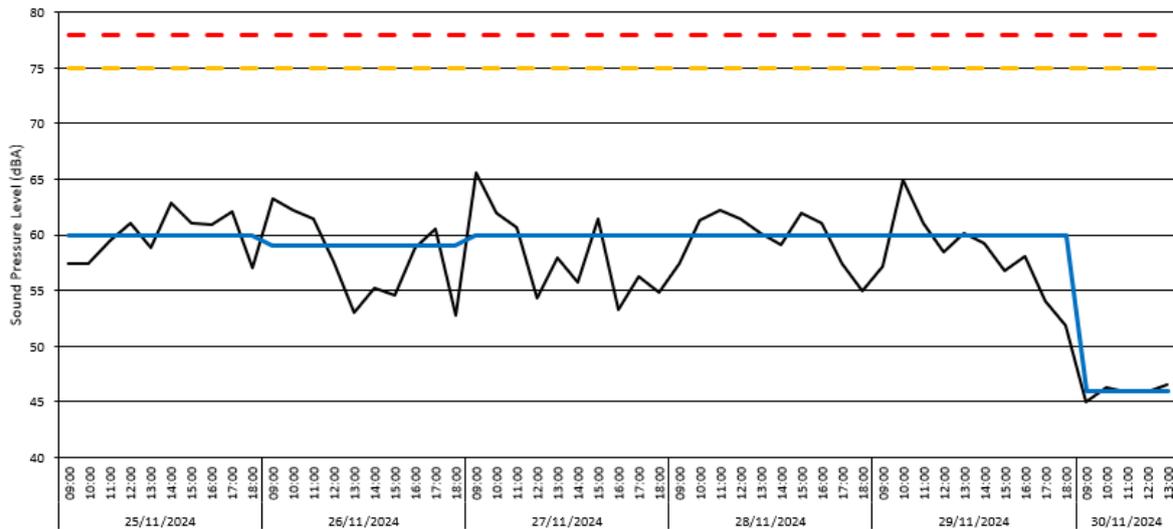


3.9 There was 100% data coverage at Location 2 during construction hours for the monitoring period covered by this report. No exceedances of the project daily noise trigger level of 75 dB LAeq,T were recorded during the monitoring period covered by this report. Two exceedances of the hourly noise action level of 78 dB LAeq,1hr were recorded at this location during the monitoring period. These were recorded at 17:00 on Thursday 5th December, with a recorded noise level of 79.0 dB LAeq,1hr and at 09:00 on Friday 6th December, with a recorded noise level of 78.2 dB LAeq,1hr. These 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. P5DLY-N3J7A) – Raw Data

# Broadband Results				
Date	Time	LAeq(60min)	LAeq(10hr)	LAeq(5hr)
[YYYY-MM-DD]	[hh:mm:ss]	[dB]	[dB]	[dB]
2024-11-25	09:00:00	57.4	--	--
2024-11-25	10:00:00	57.4	--	--
2024-11-25	11:00:00	59.5	--	--
2024-11-25	12:00:00	61.1	--	--
2024-11-25	13:00:00	58.9	--	--
2024-11-25	14:00:00	62.9	--	--
2024-11-25	15:00:00	61.0	--	--
2024-11-25	16:00:00	60.9	--	--
2024-11-25	17:00:00	62.1	--	--
2024-11-25	18:00:00	57.1	60.3	--
2024-11-26	09:00:00	63.2	--	--
2024-11-26	10:00:00	62.2	--	--
2024-11-26	11:00:00	61.5	--	--
2024-11-26	12:00:00	57.6	--	--
2024-11-26	13:00:00	53.0	--	--
2024-11-26	14:00:00	55.2	--	--
2024-11-26	15:00:00	54.6	--	--
2024-11-26	16:00:00	58.9	--	--
2024-11-26	17:00:00	60.6	--	--
2024-11-26	18:00:00	52.8	59.4	--
2024-11-27	09:00:00	65.6	--	--
2024-11-27	10:00:00	61.9	--	--
2024-11-27	11:00:00	60.7	--	--
2024-11-27	12:00:00	54.3	--	--
2024-11-27	13:00:00	58.0	--	--
2024-11-27	14:00:00	55.7	--	--
2024-11-27	15:00:00	61.4	--	--
2024-11-27	16:00:00	53.3	--	--
2024-11-27	17:00:00	56.3	--	--
2024-11-27	18:00:00	54.8	60.0	--
2024-11-28	09:00:00	57.4	--	--
2024-11-28	10:00:00	61.3	--	--
2024-11-28	11:00:00	62.2	--	--
2024-11-28	12:00:00	61.5	--	--
2024-11-28	13:00:00	60.1	--	--
2024-11-28	14:00:00	59.1	--	--
2024-11-28	15:00:00	62.0	--	--
2024-11-28	16:00:00	61.1	--	--
2024-11-28	17:00:00	57.4	--	--
2024-11-28	18:00:00	55.0	60.2	--
2024-11-29	09:00:00	57.2	--	--
2024-11-29	10:00:00	65.0	--	--
2024-11-29	11:00:00	61.0	--	--
2024-11-29	12:00:00	58.4	--	--
2024-11-29	13:00:00	60.1	--	--
2024-11-29	14:00:00	59.2	--	--
2024-11-29	15:00:00	56.8	--	--
2024-11-29	16:00:00	58.1	--	--
2024-11-29	17:00:00	54.1	--	--
2024-11-29	18:00:00	51.8	59.6	--
2024-11-30	09:00:00	45.0	--	--
2024-11-30	10:00:00	46.3	--	--
2024-11-30	11:00:00	45.9	--	--
2024-11-30	12:00:00	45.9	--	--
2024-11-30	13:00:00	46.5	--	45.9
2024-12-01	18:00:00	--	48.5	--
2024-12-02	09:00:00	56.7	--	--
2024-12-02	10:00:00	55.4	--	--
2024-12-02	11:00:00	59.9	--	--
2024-12-02	12:00:00	55.8	--	--
2024-12-02	13:00:00	59.9	--	--
2024-12-02	14:00:00	59.3	--	--
2024-12-02	15:00:00	57.4	--	--
2024-12-02	16:00:00	57.7	--	--
2024-12-02	17:00:00	57.3	--	--
2024-12-02	18:00:00	52.7	57.7	--
2024-12-03	09:00:00	68.6	--	--
2024-12-03	10:00:00	67.2	--	--
2024-12-03	11:00:00	67.6	--	--
2024-12-03	12:00:00	64.3	--	--
2024-12-03	13:00:00	60.2	--	--
2024-12-03	14:00:00	69.7	--	--
2024-12-03	15:00:00	68.3	--	--
2024-12-03	16:00:00	69.3	--	--
2024-12-03	17:00:00	63.9	--	--
2024-12-03	18:00:00	58.2	67.0	--
2024-12-04	09:00:00	68.6	--	--
2024-12-04	10:00:00	67.8	--	--
2024-12-04	11:00:00	66.6	--	--
2024-12-04	12:00:00	67.5	--	--
2024-12-04	13:00:00	65.6	--	--
2024-12-04	14:00:00	65.5	--	--
2024-12-04	15:00:00	68.5	--	--
2024-12-04	16:00:00	68.7	--	--
2024-12-04	17:00:00	64.6	--	--
2024-12-04	18:00:00	53.0	66.8	--
2024-12-05	09:00:00	57.2	--	--
2024-12-05	10:00:00	58.6	--	--
2024-12-05	11:00:00	57.4	--	--
2024-12-05	12:00:00	59.1	--	--
2024-12-05	13:00:00	57.1	--	--
2024-12-05	14:00:00	59.9	--	--
2024-12-05	15:00:00	59.2	--	--
2024-12-05	16:00:00	63.7	--	--
2024-12-05	17:00:00	61.1	--	--
2024-12-05	18:00:00	54.5	59.5	--
2024-12-06	09:00:00	60.1	--	--
2024-12-06	10:00:00	59.9	--	--
2024-12-06	11:00:00	58.3	--	--
2024-12-06	12:00:00	59.9	--	--
2024-12-06	13:00:00	60.5	--	--
2024-12-06	14:00:00	58.1	--	--
2024-12-06	15:00:00	58.1	--	--
2024-12-06	16:00:00	57.6	--	--
2024-12-06	17:00:00	57.3	--	--
2024-12-06	18:00:00	50.3	58.6	--
2024-12-07	09:00:00	58.7	--	--
2024-12-07	10:00:00	57.8	--	--
2024-12-07	11:00:00	56.2	--	--
2024-12-07	12:00:00	53.4	--	--
2024-12-07	13:00:00	53.7	--	56.5

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



- Daily noise trigger level (75 dB LAeq,0800-1800 hours, LAeq,0800-1300 hours)
- Hourly noise action level (78 dB LAeq, 1 hour)
- Noise level, LAeq, 1hour
- Daily noise level (dB LAeq,0800-1800 hours, LAeq,0800-1300 hours)
- Data unavailable

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

3.11 No exceedances of the daily project noise limit of 75 dB LAeq,T were recorded at this location during the monitoring period covered by this report. No exceedances of the project hourly noise criteria of 78 dB LAeq,1hr were recorded at this location during the monitoring period.

Vibration Monitoring Results

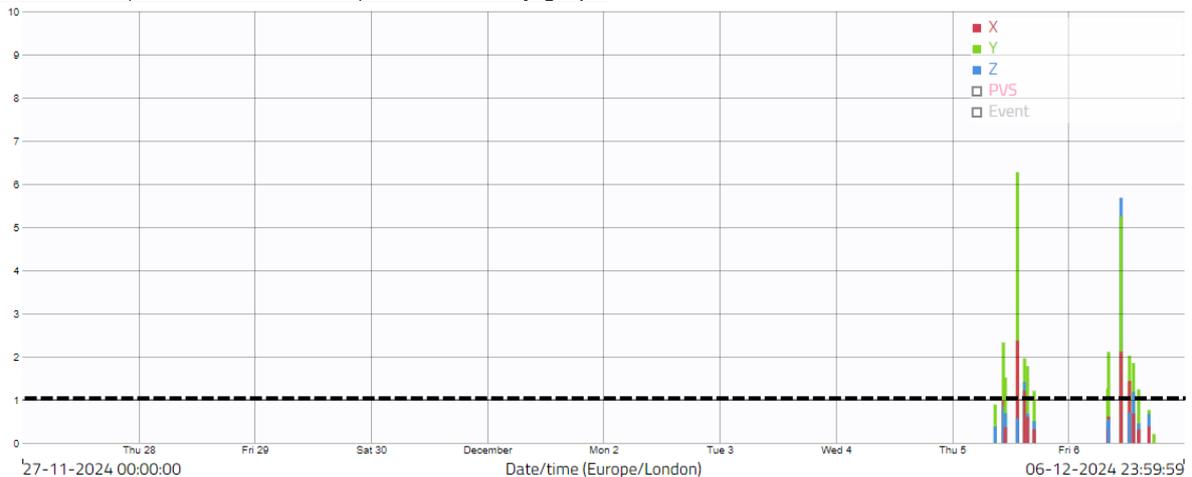
Location 1 (meter ref. PIJIVI)

3.12 The vibration monitor at this location was taken offsite for calibration on the 21st November and is planned to be returned ASAP.

Location 2 (meter ref. LEQUMO) – Raw data

Measuring point:	Period:	Order	Value	Date	Time	Order	Value	Date	Time	Order	Value	Date	Time
Holloway - L2	25/11/2024 to 07/12/2024	1	6.27	05/12/2024	13:29	31	1.58	06/12/2024	08:11	61	1.23	06/12/2024	10:37
		2	5.68	06/12/2024	10:53	32	1.54	05/12/2024	15:10	62	1.22	05/12/2024	10:18
Criteria mm/s PPV Exceedances		3	4.66	06/12/2024	10:34	33	1.53	06/12/2024	14:04	63	1.22	05/12/2024	12:43
1.0	110	4	3.69	05/12/2024	13:31	34	1.52	06/12/2024	10:08	64	1.21	05/12/2024	16:56
		5	2.94	06/12/2024	10:54	35	1.52	05/12/2024	10:59	65	1.20	05/12/2024	10:58
		6	2.90	06/12/2024	10:58	36	1.51	05/12/2024	11:10	66	1.18	05/12/2024	16:59
		7	2.75	05/12/2024	13:23	37	1.46	06/12/2024	10:31	67	1.18	06/12/2024	13:12
		8	2.55	05/12/2024	13:08	38	1.45	05/12/2024	14:03	68	1.18	05/12/2024	10:37
		9	2.54	07/12/2024	08:53	39	1.44	06/12/2024	12:06	69	1.18	06/12/2024	10:51
		10	2.37	05/12/2024	13:35	40	1.42	06/12/2024	10:33	70	1.17	05/12/2024	14:54
		11	2.33	05/12/2024	10:35	41	1.42	05/12/2024	10:36	71	1.17	07/12/2024	08:21
		12	2.13	05/12/2024	13:28	42	1.41	05/12/2024	09:47	72	1.15	07/12/2024	08:22
		13	2.11	06/12/2024	08:18	43	1.40	05/12/2024	15:33	73	1.15	06/12/2024	10:40
		14	2.09	05/12/2024	13:22	44	1.38	06/12/2024	13:42	74	1.15	05/12/2024	16:11
		15	2.07	06/12/2024	10:50	45	1.36	06/12/2024	10:10	75	1.14	07/12/2024	09:16
		16	2.02	06/12/2024	12:37	46	1.36	06/12/2024	10:32	76	1.14	05/12/2024	15:13
		17	1.96	05/12/2024	14:58	47	1.35	05/12/2024	13:25	77	1.14	05/12/2024	09:51
		18	1.90	07/12/2024	08:54	48	1.35	06/12/2024	10:36	78	1.13	06/12/2024	13:45
		19	1.88	07/12/2024	08:02	49	1.34	06/12/2024	13:41	79	1.13	06/12/2024	10:39
		20	1.85	06/12/2024	13:27	50	1.31	05/12/2024	10:19	80	1.13	06/12/2024	13:55
		21	1.85	06/12/2024	09:54	51	1.29	05/12/2024	16:12	81	1.13	05/12/2024	09:34
		22	1.84	05/12/2024	13:18	52	1.28	06/12/2024	10:16	82	1.12	06/12/2024	10:43
		23	1.81	06/12/2024	13:17	53	1.27	06/12/2024	10:48	83	1.12	05/12/2024	12:41
		24	1.80	05/12/2024	13:11	54	1.27	06/12/2024	10:52	84	1.12	06/12/2024	11:01
		25	1.78	05/12/2024	15:34	55	1.26	06/12/2024	08:08	85	1.12	06/12/2024	11:06
		26	1.78	07/12/2024	09:46	56	1.25	06/12/2024	14:06	86	1.11	05/12/2024	15:15
		27	1.71	05/12/2024	10:34	57	1.24	06/12/2024	14:32	87	1.11	06/12/2024	10:47
		28	1.69	05/12/2024	14:55	58	1.24	06/12/2024	09:02	88	1.11	06/12/2024	09:40
		29	1.61	05/12/2024	13:27	59	1.23	05/12/2024	13:03	89	1.10	06/12/2024	09:37
		30	1.58	05/12/2024	10:28	60	1.23	06/12/2024	13:44	90	1.10	06/12/2024	10:01

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



3.13 There were 110 exceedances of the project vibration trigger level of 1.0 mm/s PPV, as shown in the raw data and graph above.

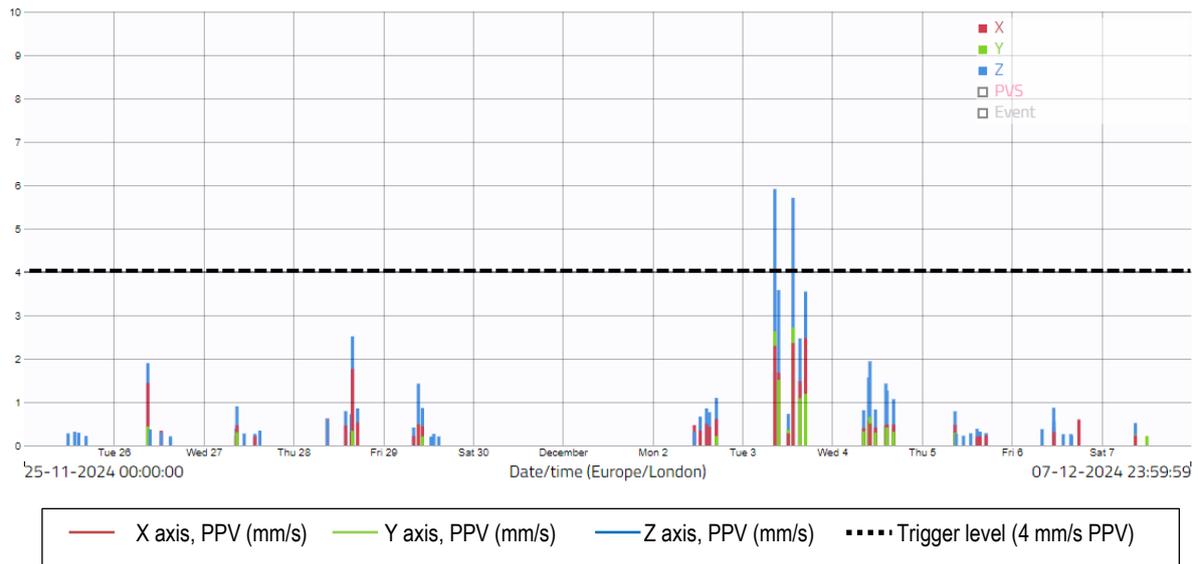
3.14 The highest level recorded was on Thursday 5th December at 13:29, with a recorded level of 6.3 mm/s PPV. The exceedances at this location were likely caused by either the drainage installation, or the pile cap & beams installation, at Block E. This will continue to be monitored.

3.15 The monitor at this location was offline due to an issue with the battery at this location until Thursday 5th December. This issue has since been resolved and data collection will continue to take place as normal going forward.

Location 3 (meter ref. RIYORU) – Raw data

Measuring point:	Period:	Order	Value	Date	Time
Holloway - L3	25/11/2024 to 07/12/2024	1	5.91	03/12/2024	08:40
		2	5.71	03/12/2024	13:32
Criteria mm/s PPV Exceedances		3	3.58	03/12/2024	09:39
4.0	2	4	3.55	03/12/2024	16:53
		5	3.54	03/12/2024	09:45
		6	3.41	03/12/2024	10:15
		7	3.38	03/12/2024	10:06
		8	3.30	03/12/2024	10:37
		9	3.19	03/12/2024	10:07
		10	2.95	03/12/2024	13:26

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



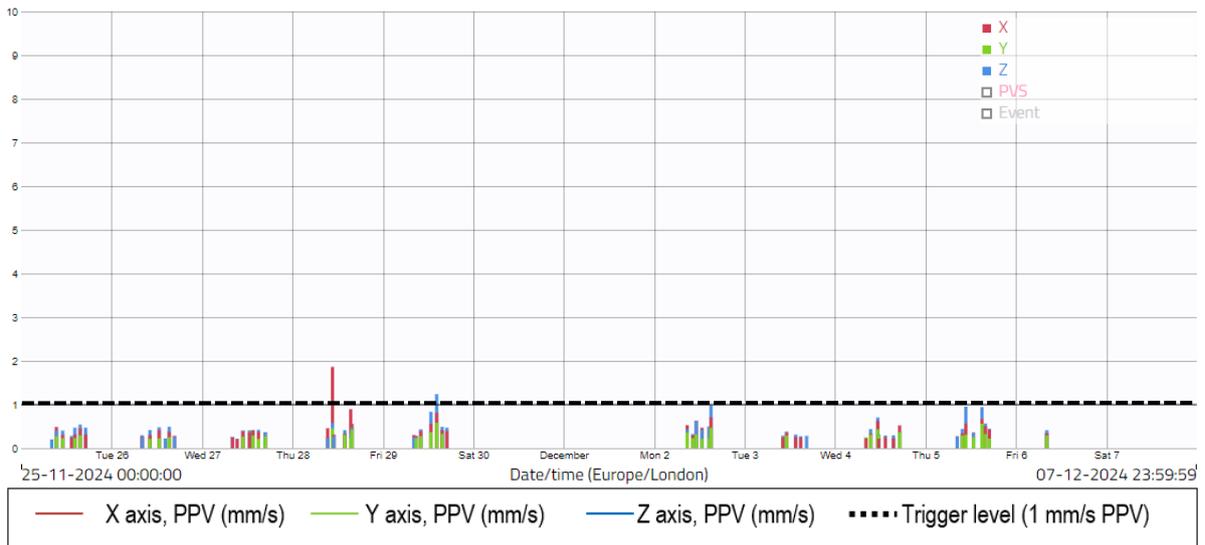
3.16 There was 100% data coverage at Location 3 during construction hours for the monitoring period covered by this report. There were two exceedances of the project vibration trigger level of 4.0 mm/s PPV, as shown in the raw data and graph above.

3.17 The highest level recorded was on Tuesday 3rd December at 08:40, with a recorded level of 5.9 mm/s PPV. As suggested by the graph above, it is likely that localised work within the proximity of the monitor was taking place on Tuesday 3rd December. It is positive that no further exceedances were recorded at this location for the remainder of the monitoring period covered by this report. This will continue to be monitored.

Location 4 (meter ref. TEJELU) – Raw data

Measuring point:	Period:	Order	Value	Date	Time
Holloway - L4	25/11/2024 to 07/12/2024	1	1.86	28/11/2024	10:37
		2	1.33	28/11/2024	10:23
Criteria mm/s PPV Exceedances		3	1.28	28/11/2024	10:35
1.0	8	4	1.25	28/11/2024	10:28
		5	1.24	28/11/2024	10:47
		6	1.24	29/11/2024	14:16
		7	1.07	28/11/2024	09:45
		8	1.02	28/11/2024	09:47
		9	0.98	02/12/2024	15:04
		10	0.95	05/12/2024	10:41

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



3.18 There was 100% data coverage at Location 4 during construction hours for the monitoring period covered by this report. There were eight exceedances of the project vibration trigger level of 1.0 mm/s PPV, which are shown in the raw data and graph above. Thursday 28th November at 10:37, with a recorded level of 1.9 mm/s PPV. This was likely caused by the work taking place at Block E, such as drainage installation, or the installation of pile caps and beams. This will continue to be monitored.