



October 2025

Air Quality and Dust Monitoring Monthly Report – October 2025

London Borough of Ealing



Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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A report prepared by EWCs and MWCCs on behalf of HS2 Ltd.

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Monthly Summary

1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality and dust monitoring undertaken in the London Borough of Ealing (LBE) during September 2025 and October 2025 respectively.

1.1.2 Figure 1 to Figure 3 in Appendix A present the current worksites together with air quality and dust monitoring locations.

1.1.3 This summary should be read in conjunction with the overview monitoring report available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, which highlights: the applicable standards and guidance, as well as the air quality and dust monitoring methodologies to be implemented by nominated undertakers throughout construction.

1.1.4 The current worksites, as presented in Appendix A, Figure 1 to Figure 3, include:

Old Oak Common Depot (located in the London Borough of Hammersmith and Fulham)

- General Site: Materials management and haulage.
- Station Box: Steel fixing, formwork, falsework, concreting
- GWML & SAB: Excavating, backfilling, fitting trench boxes, laying pipe
- Site haul roads and public roads adjacent to site: Cleaning with road sweeper.
- OOCL: Excavating, levelling, road surfacing, clearing, vac-ex.
- MEPH: Installation of modules
- Blockwork: Hoovering side cavities, blockwork
- Attenuation Tank: Piling and store set ups, striking shutters.

Victoria Road Crossover Box and Flat Iron Site

- Crossover Box construction;
- Tunnel Boring Machine demobilisation
- Materials management conveyor demobilisation; and
- Vent Shaft and Headhouse Construction

Willesden Euro Terminal

- Material and plant storage; and
- Currently no excavated material being removed by rail until Q1 2026.

Atlas Road

- Conveyor demobilisation.
- Segment storage

- Tunnel Boring Machine preparation

Green Park Way Vent Shaft

- Vent shaft construction;
- Tunnel Boring Machine removal and demobilisation
- Materials management
- Gantry Crane demobilisation; and
- Crosspassage Construction

Mandeville Road Vent Shaft

- Vent shaft construction; and
- Materials management.

Westgate Vent Shaft

- Vent shaft and headhouse construction; and
- Materials management.

1.1.5 Nineteen (19) dust monitors are installed around these worksites, where works are underway. These sites returned a medium to high dust risk rating.

1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor presented in Figure 4. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.

1.1.7 The trigger level for PM₁₀ concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.

1.1.8 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 2.

1.1.9 Data capture was below 90% for multiple monitors due to:

- AQ024 - fault with the monitor, replaced in October 2025. Although data capture was above 90% the excessively erratic readings of the monitor indicated a fault, and the monitor was to be removed and replaced in November 2025.
- AQ028, the unit calibration expired on 14th September 2025. A new monitor with a valid unit calibration was installed on 17th October 2025.

- 1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) is undertaken at six (6) locations around highways within the LBE as part of the management of air quality where significant effects occur as a result of the scheme.
- 1.1.11 Diffusion tube monitoring results are as provided from the laboratory analysis, and therefore still require various analysis and adjustments to be undertaken. Final corrected results will be presented and described in the annual report. However, based on the results to date, no unexpected values were recorded during the monitoring period.
- 1.1.12 NO₂ monitoring locations and results are presented in Appendix C, Table 3, together with the 2025 running mean.
- 1.1.13 There were no (0) complaints received during the reporting period (October 2025).

Appendix A – Worksites and Monitoring Locations

Figures 1 to 3: Worksites and Monitoring Locations within the LBE





Legend

- Dust Monitor
- District Borough Unitary Boundaries
- Worksite

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Map Number

Map Name

Worksite & Monitoring Locations
In LBE (Sheet 1)

London Borough of Ealing



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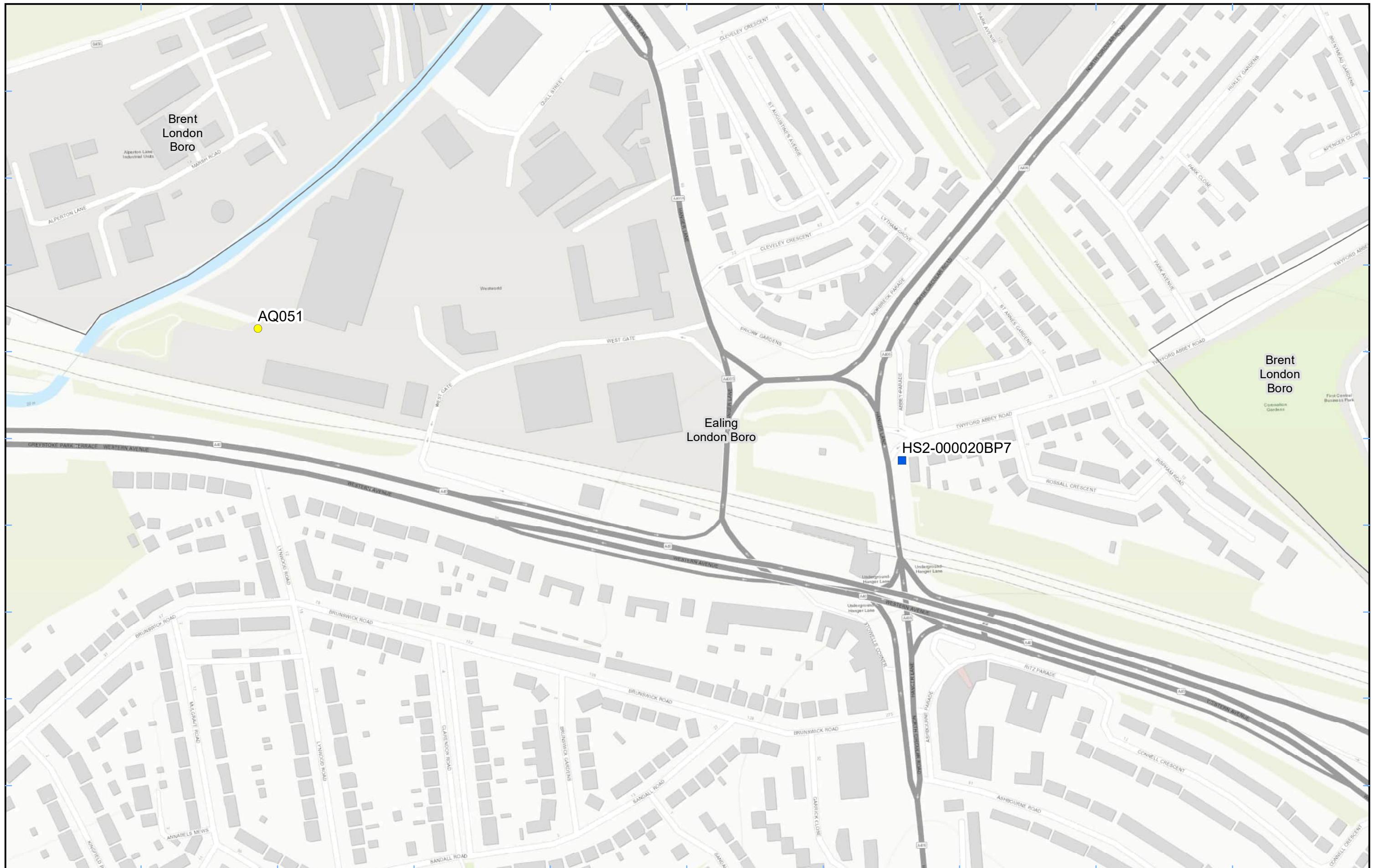
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Date: 18/05/23



Legend

- Diffusion Tube
- District Borough Unitary Boundaries
- Dust Monitor

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Map Number

Map Name

Monitoring Locations In LBE (Sheet 2)

London Borough of Ealing



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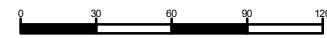


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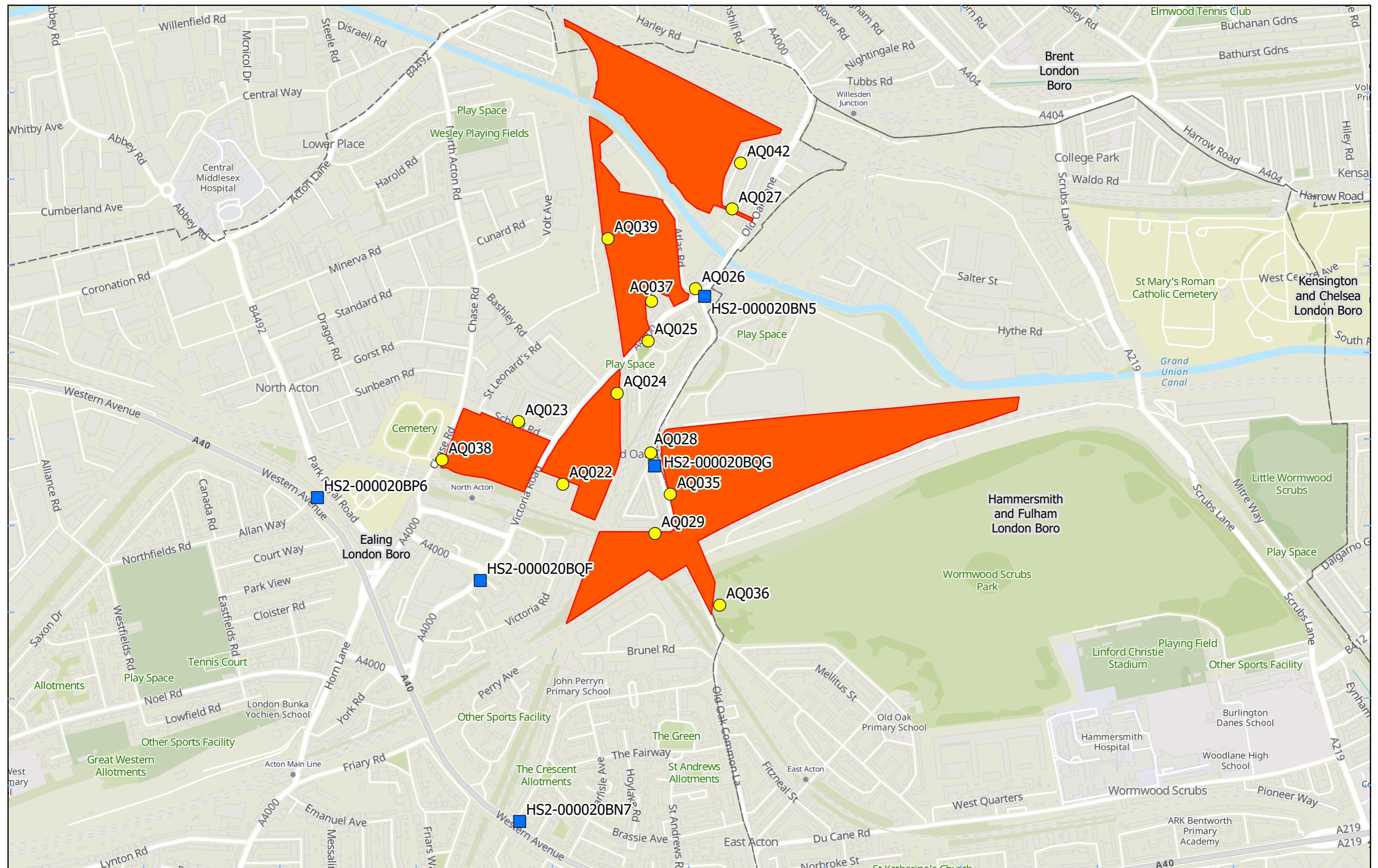
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Date: 26/04/22



Legend

- Dust Monitor
- Worksite
- Diffusion Tube
- District Borough Unitary Boundaries

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Map Name	
Worksheets and Monitoring Locations In LBE (Sheet 3)	
London Borough of Ealing	Doc Number: Date: 06/02/25



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0 0 0 0 0 0 0 Metres

Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

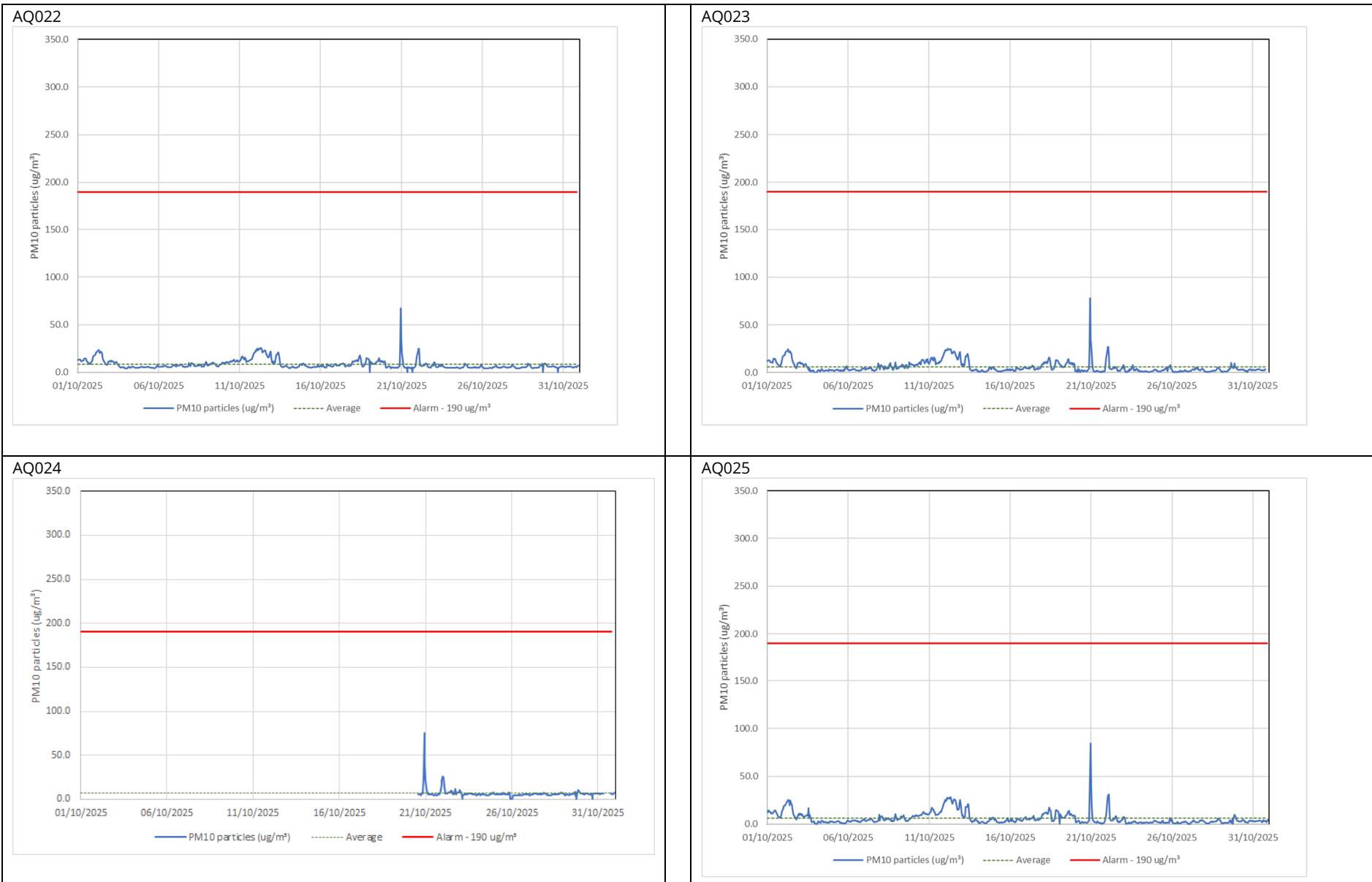
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ022	521072, 181985	Boden House	M	Yes	N	8.5	4.0	67.2	0	99.5
AQ023	520956, 182149	School Road	M	Yes	N	5.9	0.0	78.0	0	99.6
AQ024	521214, 182223	Braitrim House	M	Yes	N	6.7	4.0	75.5	0	34.8
AQ025	521295, 182360	Victoria Road	M	Yes	N	6.3	0.2	84.8	0	99.1
AQ026	521419, 182497	Old Oak Lane	M	Yes	N	6.0	0.0	90.2	0	99.6
AQ027	521515, 182706	Channel Gate Road	M	Yes	N	6.1	0.0	78.3	0	99.5
AQ028	521302, 182067	Wells House Road	M	Yes	N	16.4	1.6	114.9	0	100.0
AQ029	521453, 182132	Old Oak Common	H	Yes	N	13.7	1.5	43.1	0	99.7
AQ032	513402, 184536	Badminton Close	M	Yes	N	6.4	1.0	57.4	0	98.8
AQ035	521353, 181959	Old Oak Common	H	Yes	N	14.9	1.1	80.7	0	100.0
AQ036	521482, 181668	UTX South – Triangle Site	M	Yes	N	16.6	2.5	143.3	0	99.9
AQ037	521304, 182464	Atlas Road	M	Yes	N	5.9	0.0	84.9	0	99.3

Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ038	520756, 182049	Chase Road	M	Yes	N	8.4	4.1	58.3	0	99.2
AQ039	521190, 182628	Atlas Road 2	M	Yes	N	5.9	0.7	72.3	0	99.2
AQ042	521537, 182826	Stephenson Road	M	Yes	N	8.9	0.0	114.2	0	98.8
AQ043	513468, 184504	Mandeville Road	M	Yes	N	6.1	0.0	47.7	0	98.3
AQ046	515593, 183764	Green Park Way	M	Yes	N	8.2	4.0	35.6	0	99.2
AQ051	517976, 182823	Westgate	M	Yes	N	39.6	4.0	354.0	7	98.4
AQ055	513359, 184488	Mandeville Road 2	M	Yes	N	5.8	0.0	46.4	0	98.8

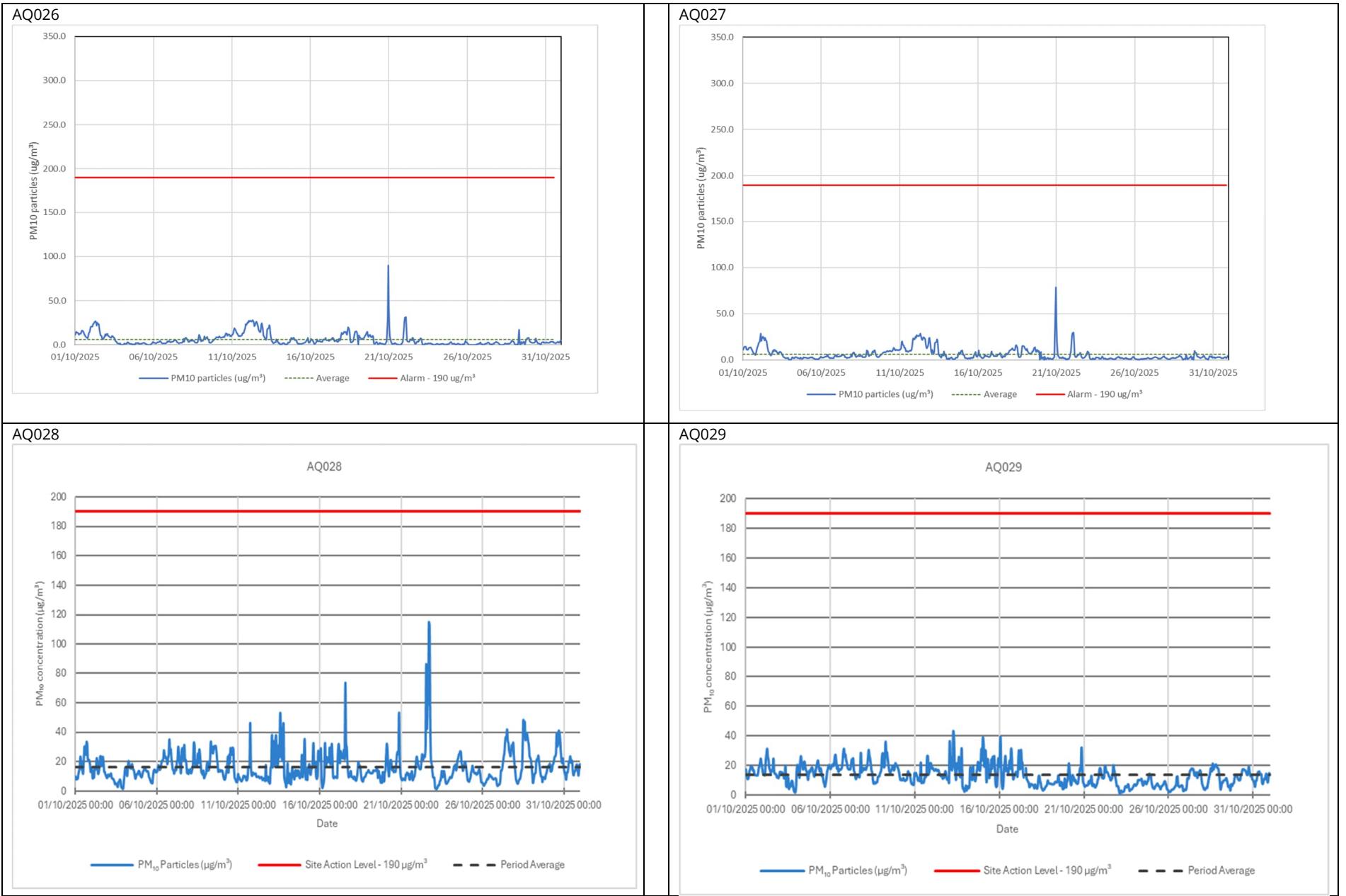
Table 2: Summary of exceedances during period (October 2025)

Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ051	25/10/2025 18:01 – 19:00; 194.3 µg/m ³ 19:01 – 20:00; 191.4 µg/m ³ 28/10/2025 06:01 – 07:00; 290.5 µg/m ³ 29/10/2025 05:01 – 06:00; 278.0 µg/m ³ 31/10/2025 01:01 – 02:00; 354.0 µg/m ³ 13:01 – 14:00; 306.1 µg/m ³ 21:01 – 22:00; 221.5 µg/m ³	These readings were due to a fault with the monitor which was checked during October for any visible/obvious issues but then removed on the 1 st November for repair. There were no HS2 activities on site that were generating excess dust.	N/A

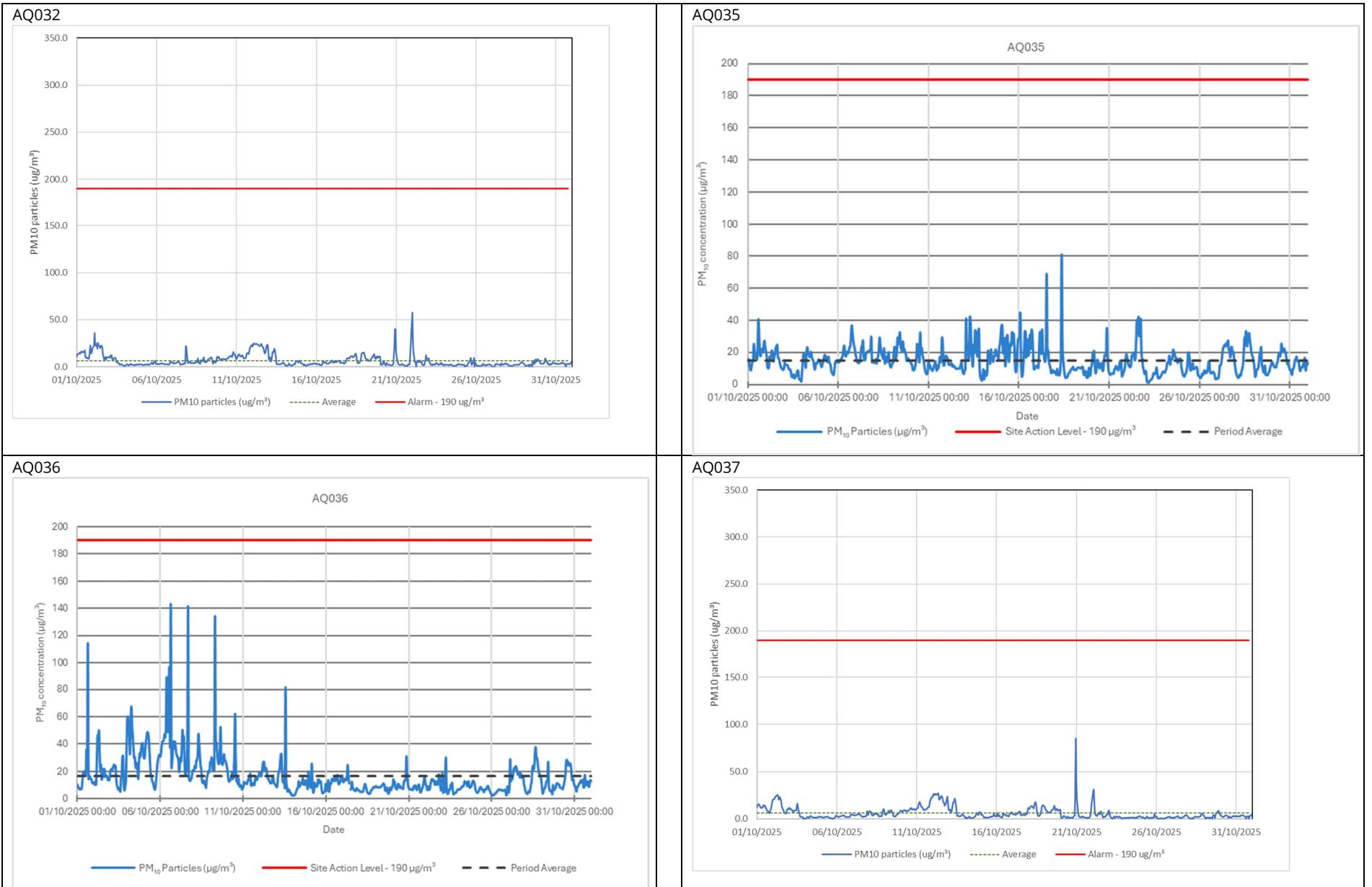
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



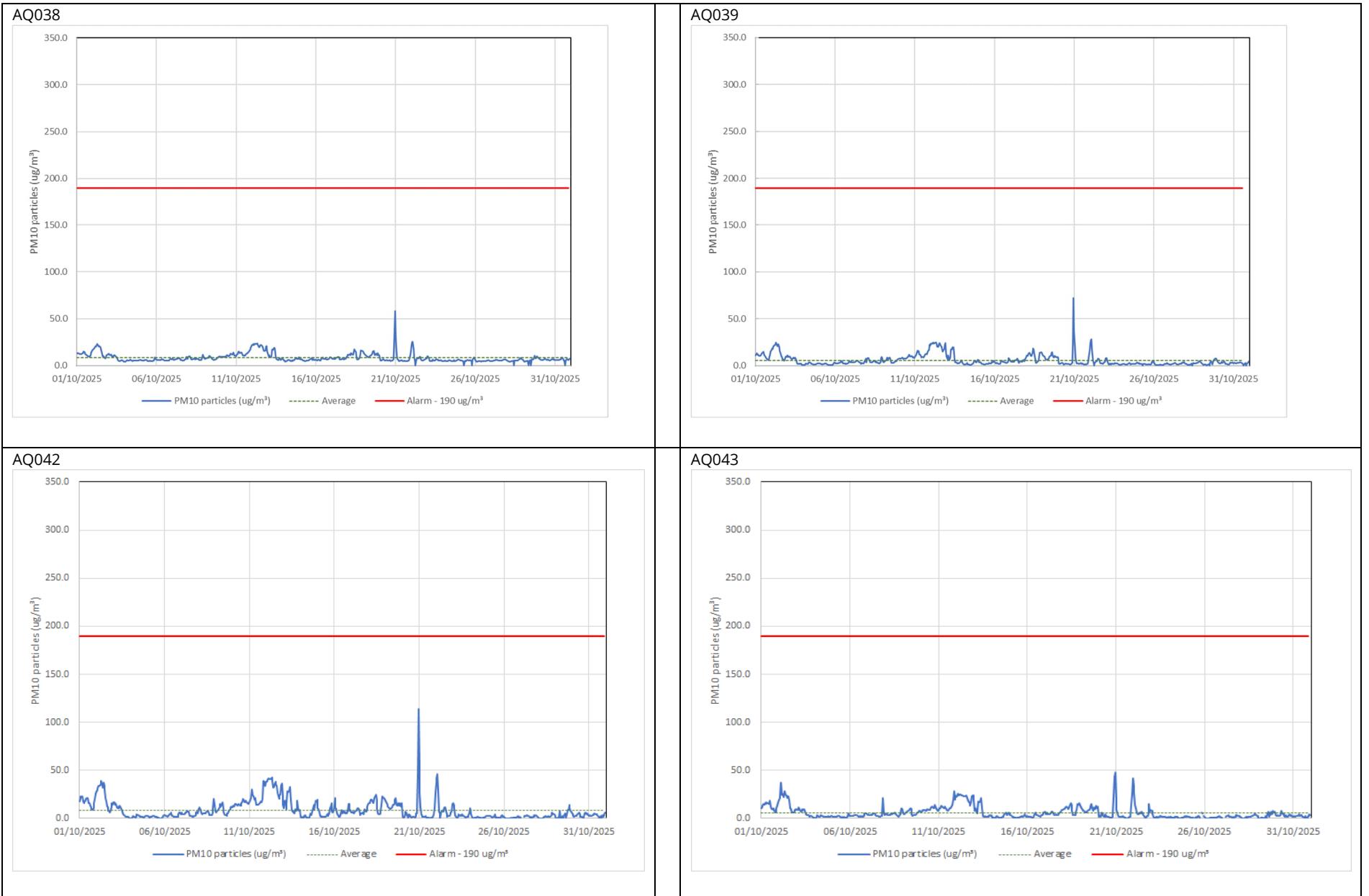
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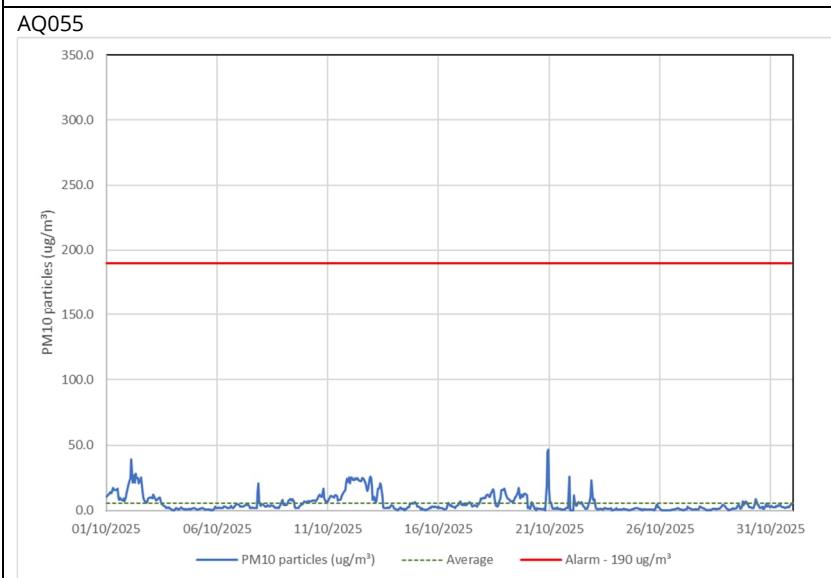
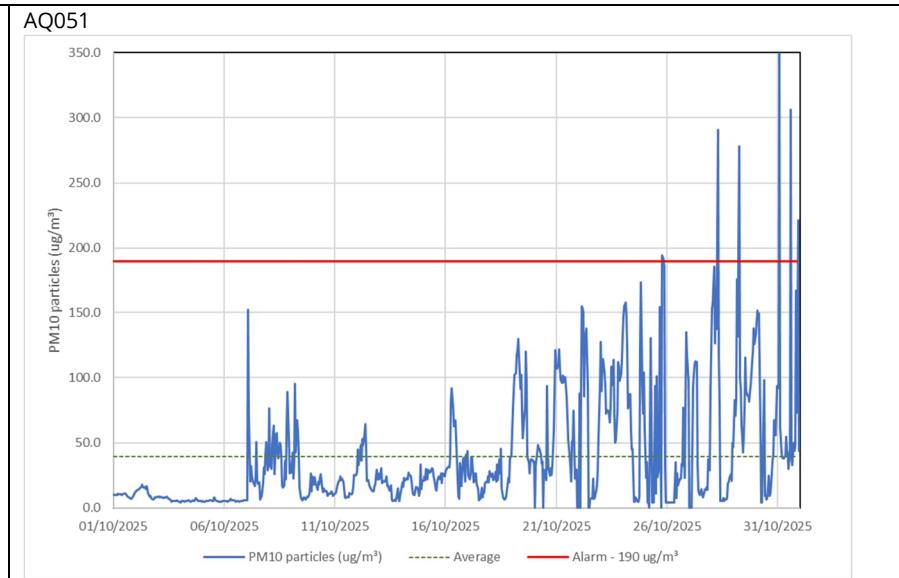
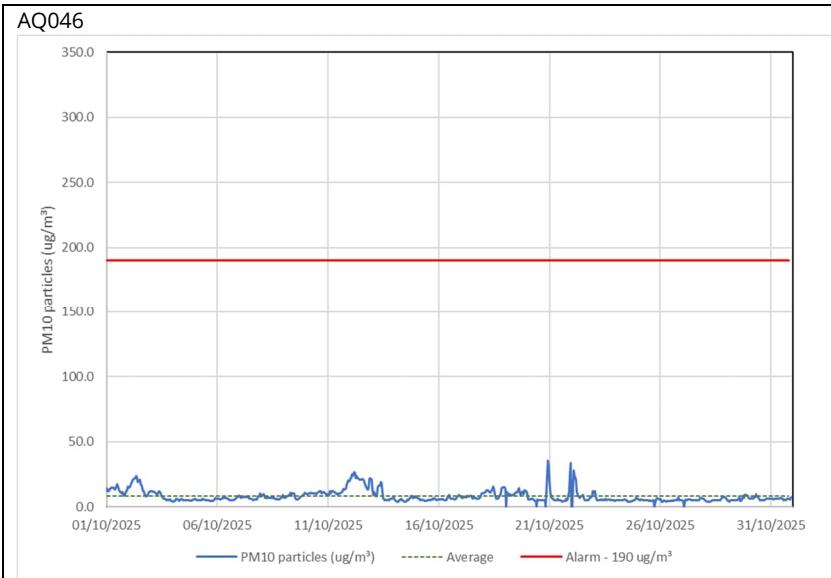
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Appendix C – Air Quality Monitoring Results

Table 3: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2025 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2-000020BN5	Sign post on Victoria Road	521443, 182477	58	46	30	41	27	29	30	26	27				35
HS2-000020BN7	The Approach street sign	520959, 181102	48	34	39	30	22	31	30	26	31				32
HS2-000020BQF	Conway Drive sign post	520856, 181733	46	44	46	Tube Missing	34	33	34	30	30				37
HS2-000020BQG	Lamp post outside No 1. Wells House Road on Old Oak Common Lane	521312, 182033	51	44	43	41	26	33	30	28	Tube Missing				37
HS2-000020BP6	TriPLICATE site next to the Ealing, Western Avenue Acton roadside automatic monitoring station	520430, 181950	47	38	48	34	26	27	27	27	30				34

¹ Note: to aid interpretation and conform with best practice, the monthly measurements in this table are reported rounded to the nearest whole number. The annual mean presented here is calculated based on laboratory data to 4 significant figures, rounded to a whole number, and therefore may differ slightly to a mean derived from averaging the rounded monthly measurements in the table.

² The annual mean for diffusion tubes presented in the table above still require various analysis and adjustments to be undertaken before comparison to the Air Quality Objectives. The final corrected annual mean will be presented in the HS2 Annual Air Quality Report.

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹²
HS2-000020BP7	TriPLICATE site next to the Ealing, Hangar Lane Gyratory roadside automatic monitoring station	518537, 182708	60	50	32	48	26	41	46	46	50				44