

Air Quality and Dust Monitoring Monthly Report – March 2026

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 February and March 2026 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: general formwork, pouring concrete, breaking concrete, steel fixing.
- GWML and SAB: steel fixing, general carpentry, backfilling, excavation and concrete pouring.
- Site haul roads and public roads adjacent to site: cleaning with road sweeper, road preparation.
- OOCL: digging, backfilling, pipe welding, pipe installation, ground anchor works, level surfacing, continued excavation GWML tank.
- MEPH: installation of CMS, hoovering water, cutting pipe and Unistrut and installation of wall levelling survey.
- Blockwork: water pumping, hoovering, cleaning silo compound, general blockwork below ground in the box.
- Backfilling of urban realm with Leca and aggregates.
- Attenuation Tank: piling and store set ups, striking shutters and excavation.

Victoria Road Crossover Box and Flat Iron Site

- Crossover Box construction;
- Tunnel Boring Machine preparation; and
- Materials management conveyor demobilisation.

Willesden Euro Terminal

- Limited excavated material spoil management and onward removal by rail.

Atlas Road

- Conveyor demobilisation and storage.

Green Park Way Vent Shaft

- Vent shaft construction;
- Tunnel Boring Machine removal; and
- Materials management.

Mandeville Road Vent Shaft

- Vent shaft construction;
- Utilities works and materials management.

Westgate Vent Shaft

- Vent shaft and headhouse construction.

- 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 2, 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 3.
- 1.1.9 Data capture was below 90% for AQ036 monitor due to power issues at the UTX site throughout the month.
- 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.

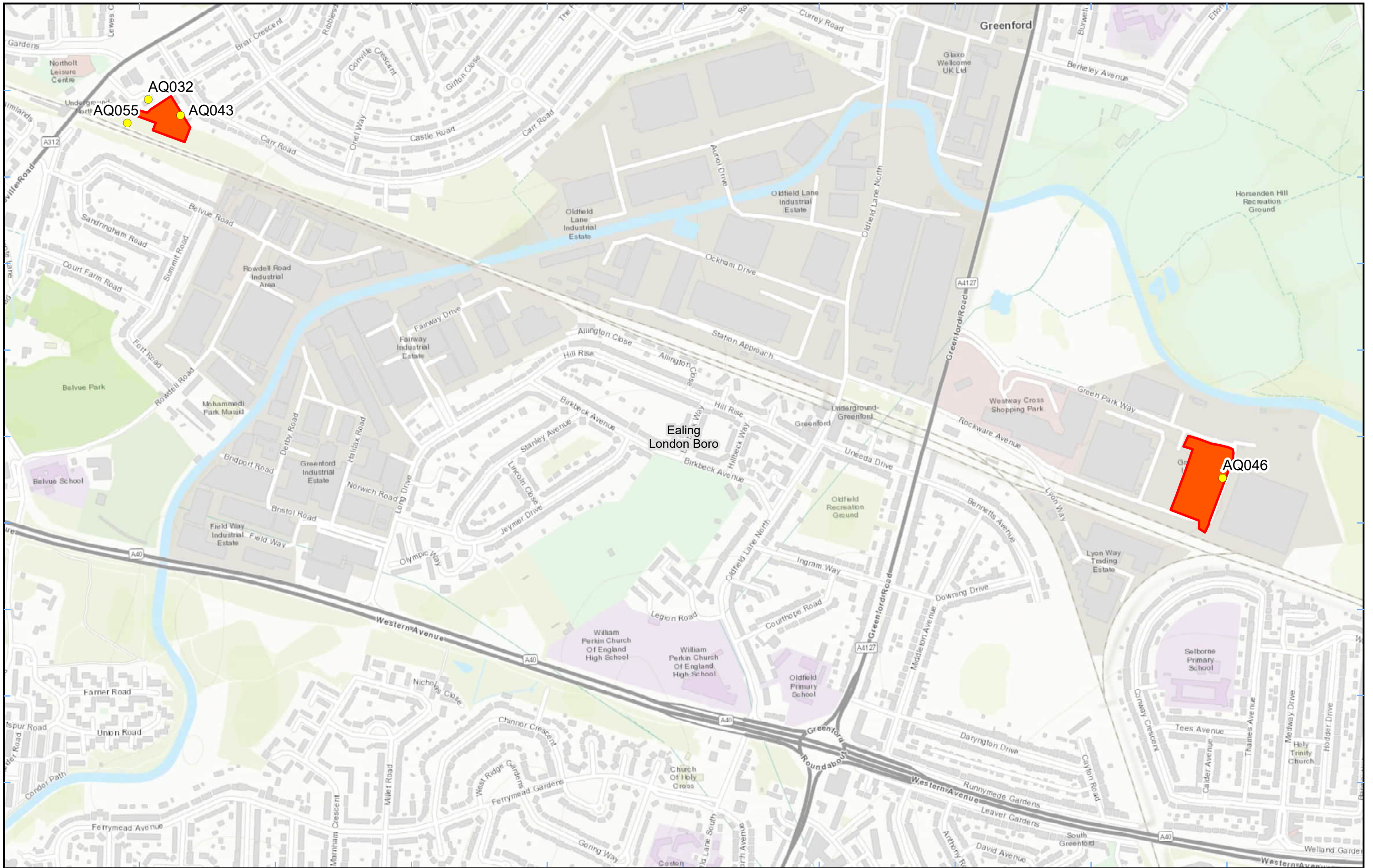
- 1.1.12 NO₂ monitoring locations and results are presented in Appendix C, Table 4, together with the 2026 running mean.
- 1.1.13 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during March 2026

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-26-47174-C	N/A	Freight trains idling close to property.	After investigation locomotives are required to remain running for a period of time to build and maintain air pressure for the braking system, which is a standard safety requirement across the rail network. Trains must wait for permission from Network Rail before entering the main line. Where possible, locomotives will be positioned further away from residential areas while awaiting signal clearance. Resident has been updated.
HS2-26-47209-C	N/A	<p>There are frequently trains idling their engines for extended periods (>15mins) at the Willesden Euro terminal site. This creates unnecessary exhaust and significant noise pollution for the area.</p> <p>Right now (18:07 on Thursday 19 March 2026), a train has been continuously idling for at least 30 minutes.</p>	

Appendix A – Worksites and Monitoring Locations

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



Legend
 Dust Monitor Worksite
 District Borough Unitary Boundaries

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Map Number
 Map Name
**Worksite & Monitoring Locations
 In LBE (Sheet 1)**

London Borough of Ealing

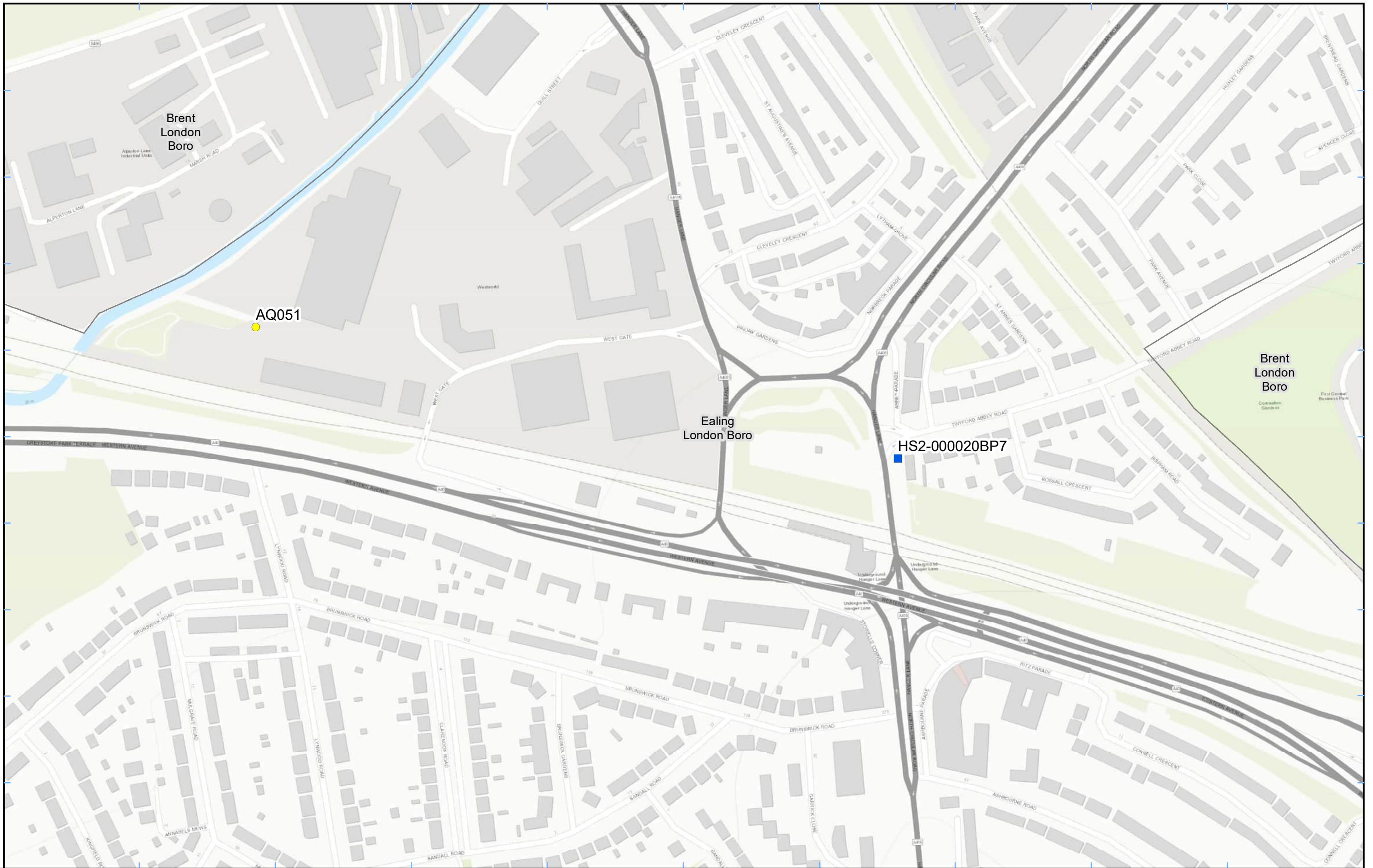
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- Legend**
- Diffusion Tube
 - Dust Monitor
 - District Borough Unitary Boundaries

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Map Number

Map Name
**Monitoring Locations
 In LBE (Sheet 2)**

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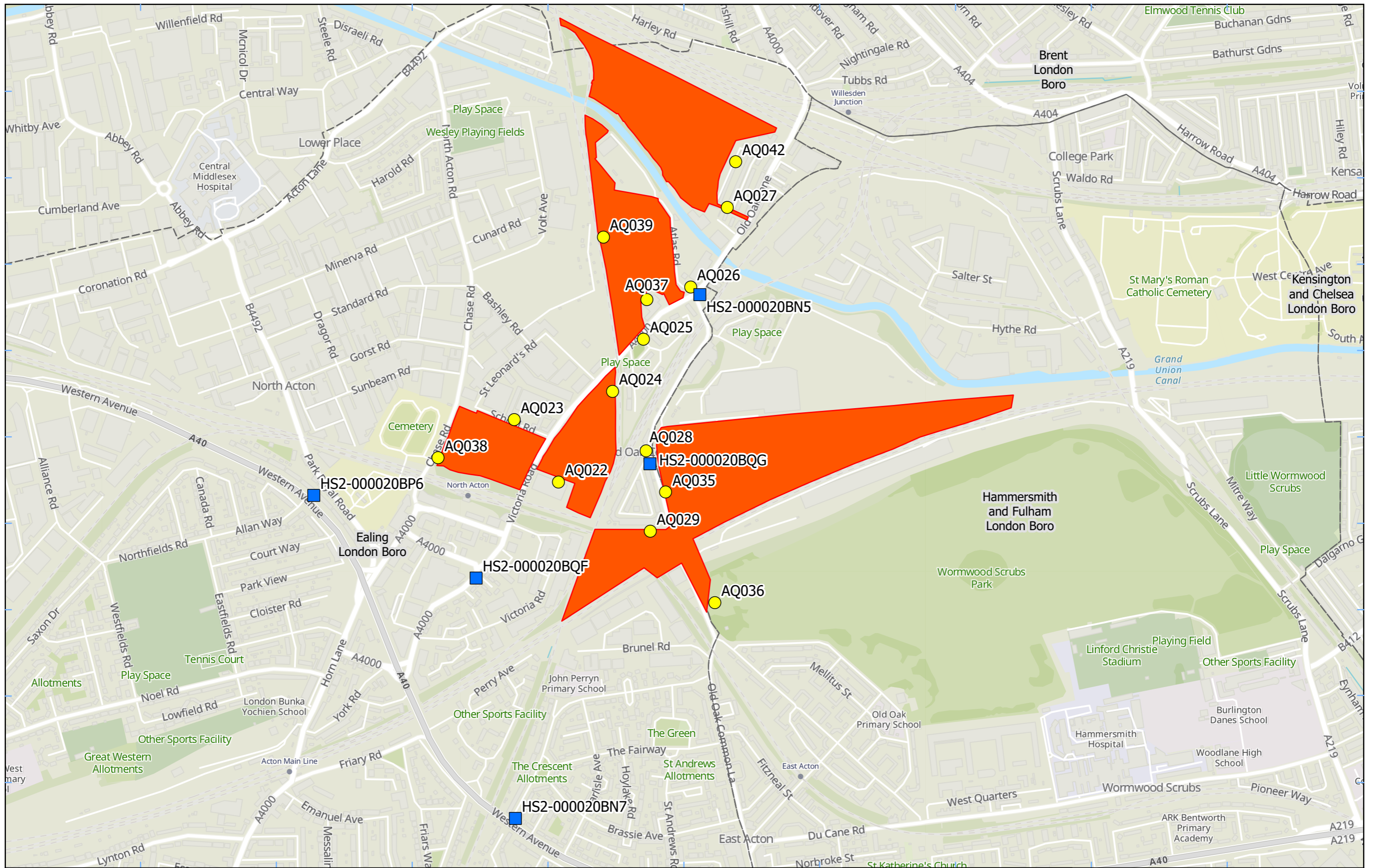


Metres

Date: 26/04/22



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Legend


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

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Map Number

Map Name
**Worksite and Monitoring Locations
In LBE (Sheet 3)**


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Date: 06/02/25

Appendix B – Dust Monitoring Results

Table 2: Dust Monitoring Locations and Results

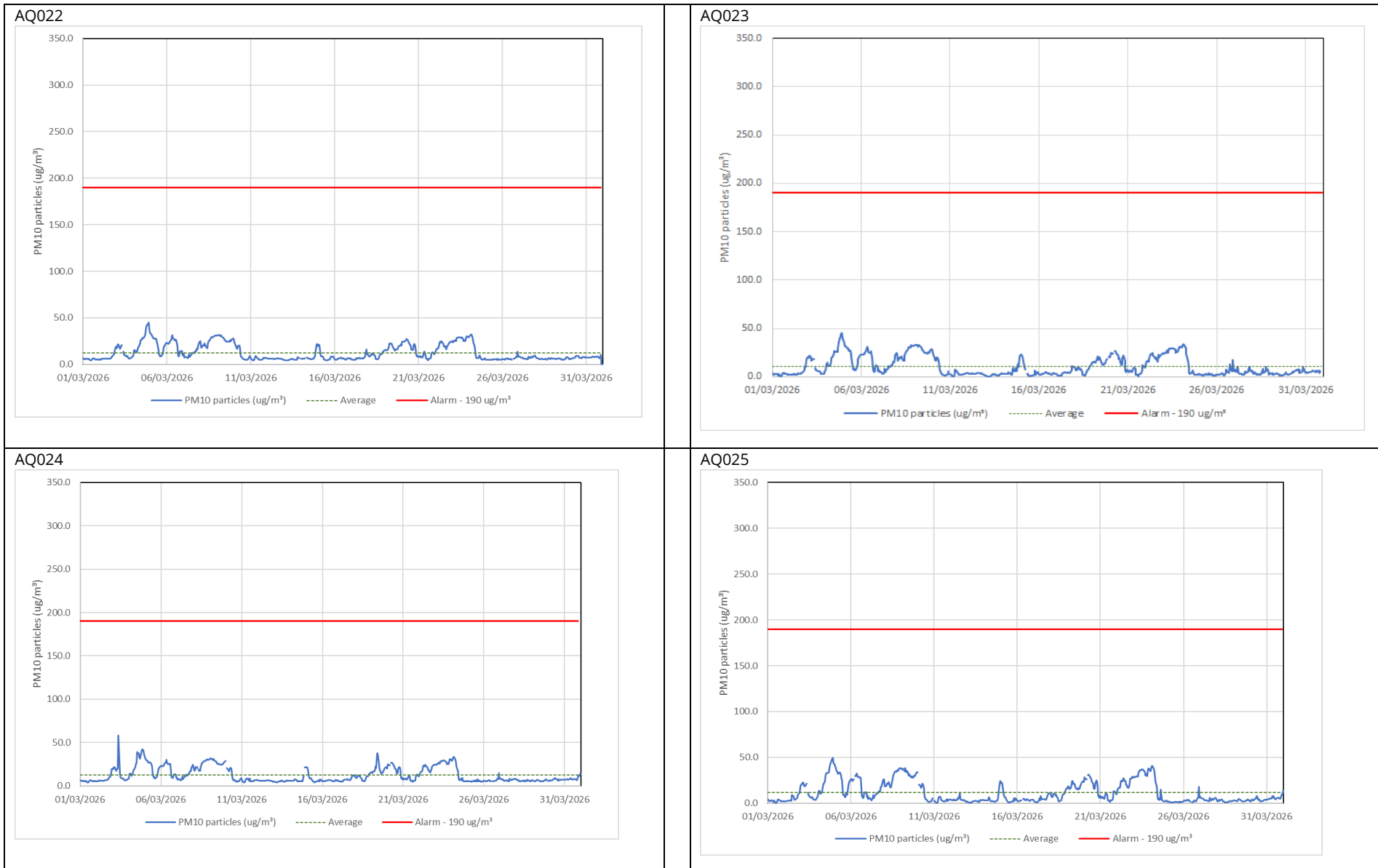
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ022	521072, 181985	Boden House	M	Yes	N	12.4	4.0	45.1	0	99.1
AQ023	520956, 182149	School Road	M	Yes	N	10.6	0.1	45.1	0	98.9
AQ024	521214, 182223	Braitrim House	M	Yes	N	12.6	4.0	58.0	0	99.1
AQ025	521295, 182360	Victoria Road	M	Yes	N	11.4	0.1	49.7	0	99.1
AQ026	521419, 182497	Old Oak Lane	M	Yes	N	11.3	0.1	51.7	0	96.4
AQ027	521515, 182706	Channel Gate Road	M	Yes	N	13.6	5.0	39.3	0	98.8
AQ028	521302, 182067	Wells House Road	M	Yes	N	19.8	1.1	207.8	1	100.0
AQ029	521453, 182132	Old Oak Common	H	Yes	N	21.3	1.4	101.0	0	99.3
AQ032	513402, 184536	Badminton Close	M	Yes	N	11.0	1.0	47.6	0	99.2
AQ035	521353, 181959	Old Oak Common	H	Yes	N	21.7	1.1	130.6	0	100.0
AQ036	521482, 181668	UTX South – Triangle Site	M	Yes	N	17.5	1.6	69.9	0	80.6
AQ037	521304, 182464	Atlas Road	M	Yes	N	10.7	0.2	49.3	0	98.5

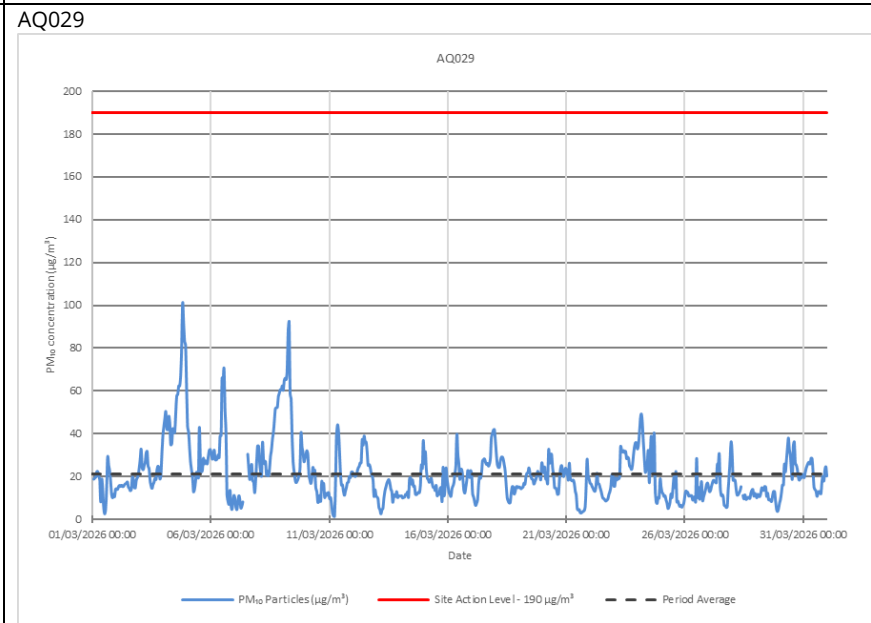
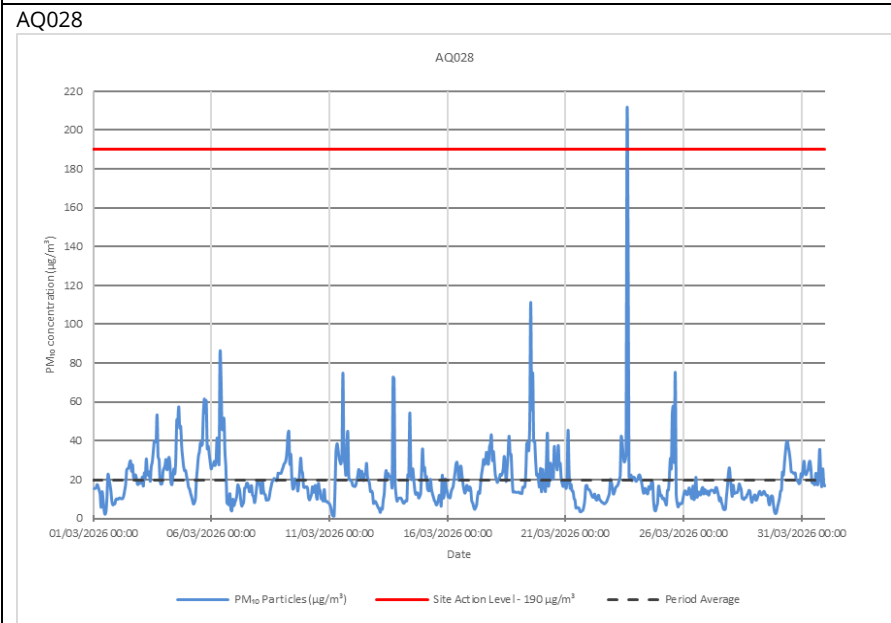
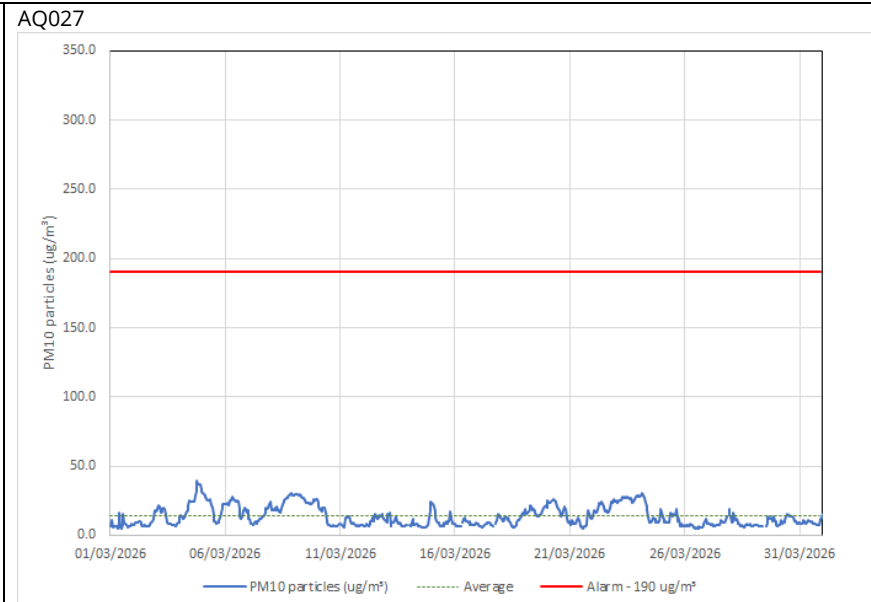
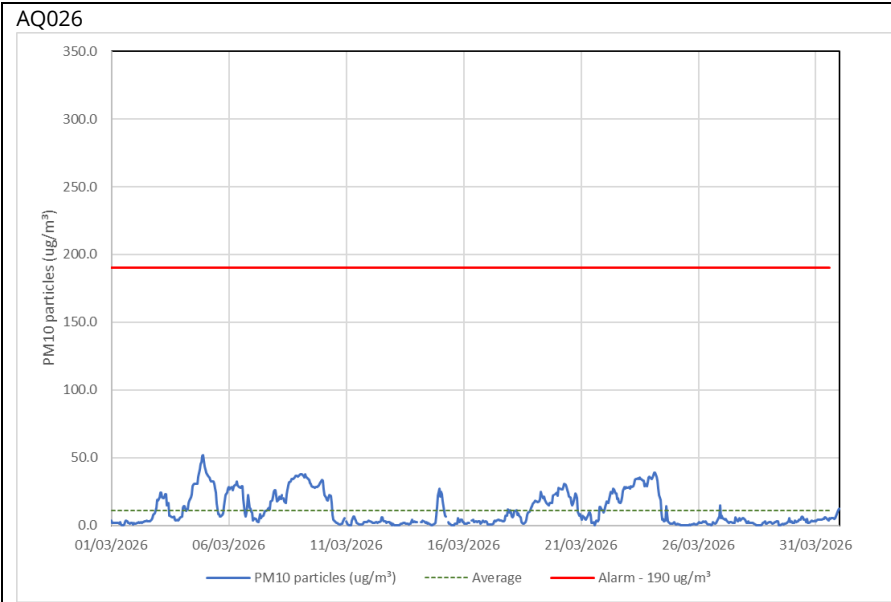
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ038	520756, 182049	Chase Road	M	Yes	N	12.1	4.0	58.7	0	99.5
AQ039	521190, 182628	Atlas Road 2	M	Yes	N	10.6	0.4	52.7	0	98.8
AQ042	521537, 182826	Stephenson Road	M	Yes	N	5.6	0.1	72.7	0	99.3
AQ043	513468, 184504	Mandeville Road	M	Yes	N	10.9	0.1	65.6	0	99.7
AQ046	515593, 183764	Green Park Way	M	Yes	N	12.1	4.0	42.3	0	99.6
AQ051	517976, 182823	Westgate	M	Yes	N	9.1	4.0	32.7	0	99.1
AQ055	513359, 184488	Mandeville Road 2	M	Yes	N	10.7	0.1	56.4	0	99.3

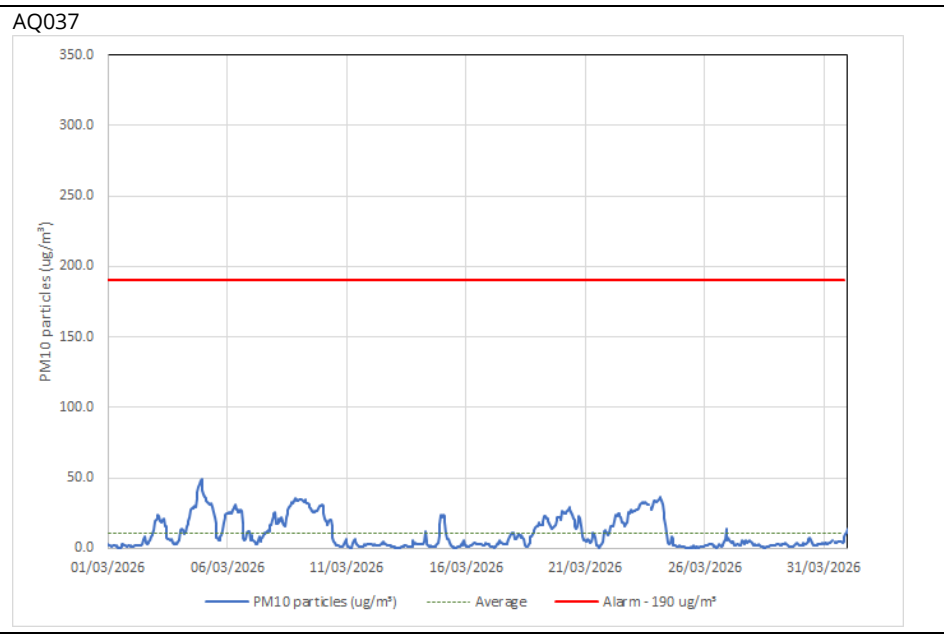
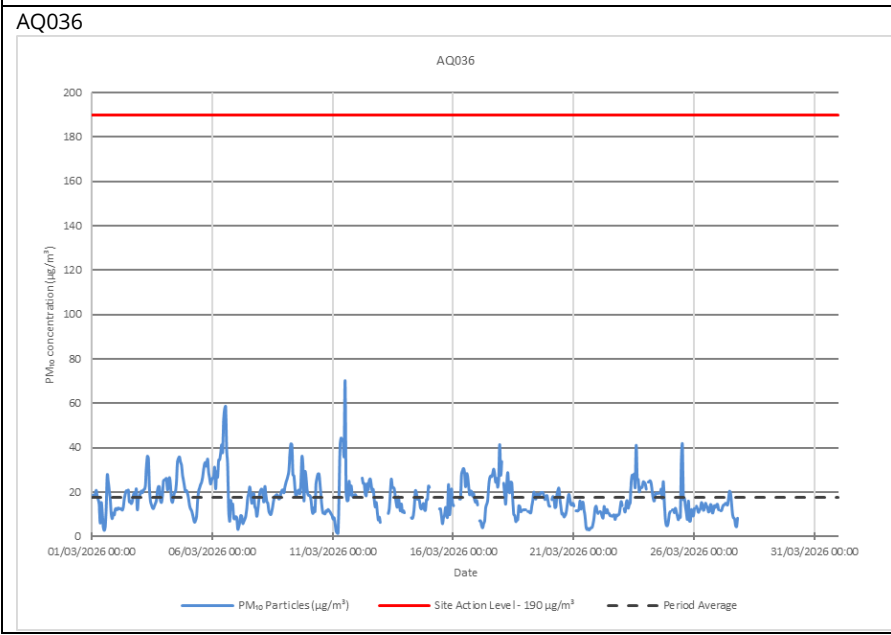
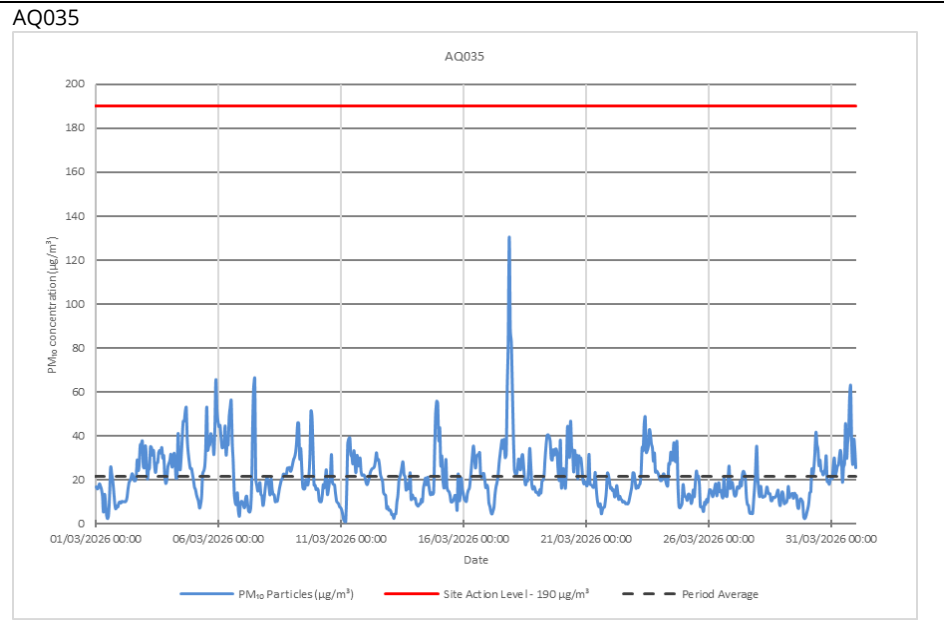
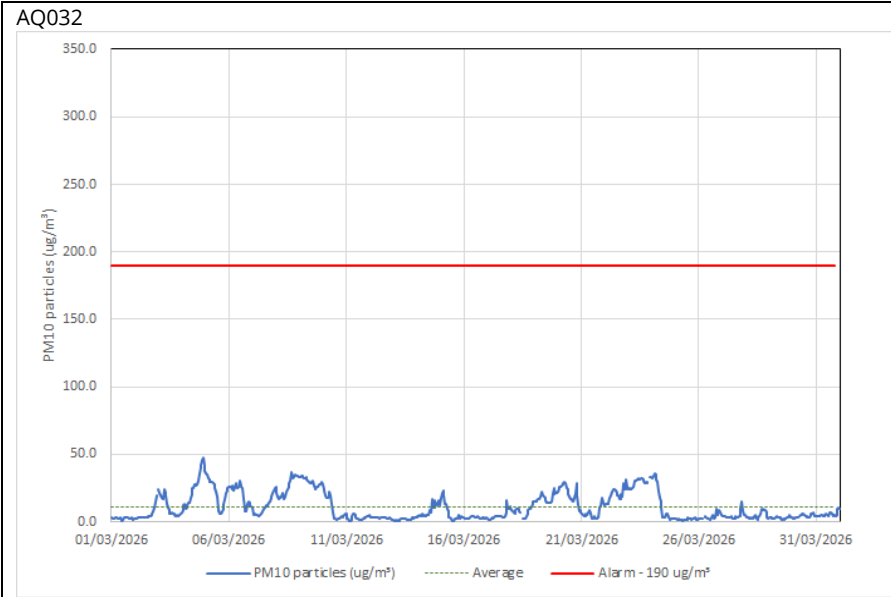
Table 3: Summary of exceedances during period (March 2026)

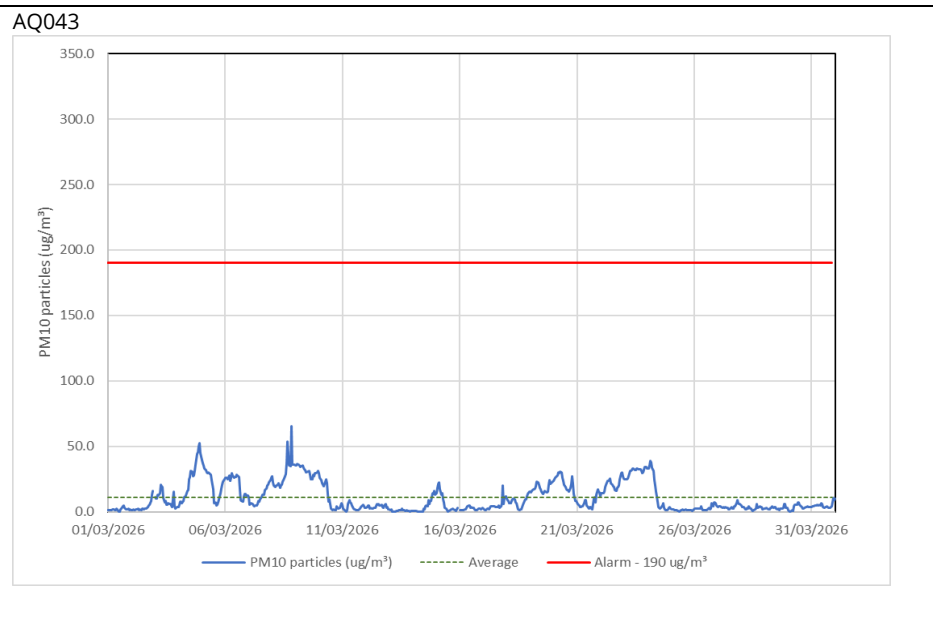
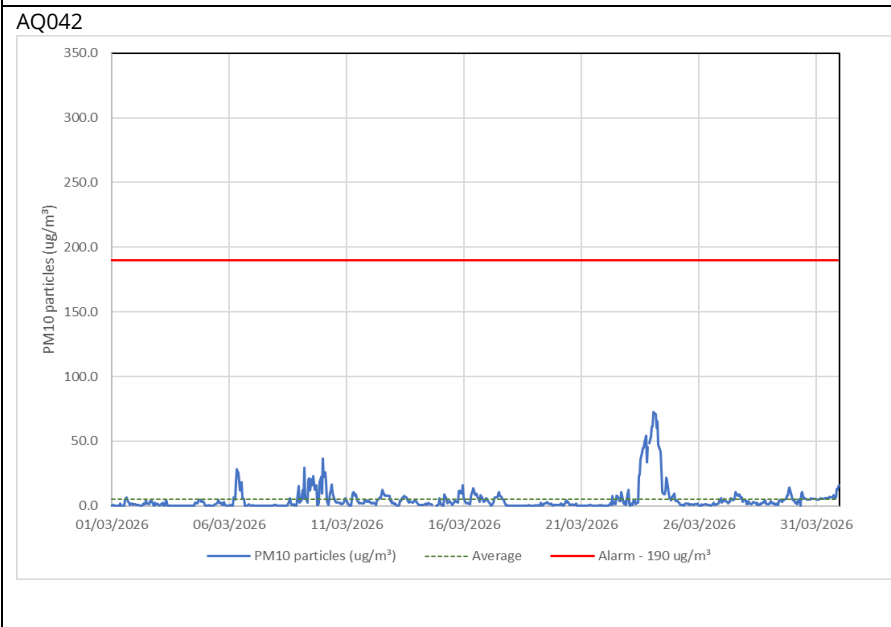
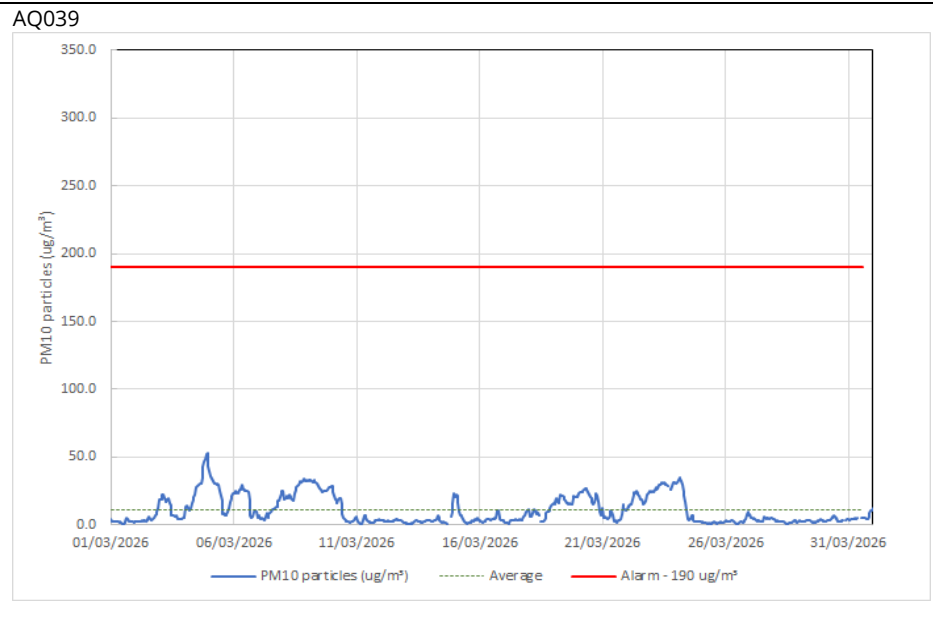
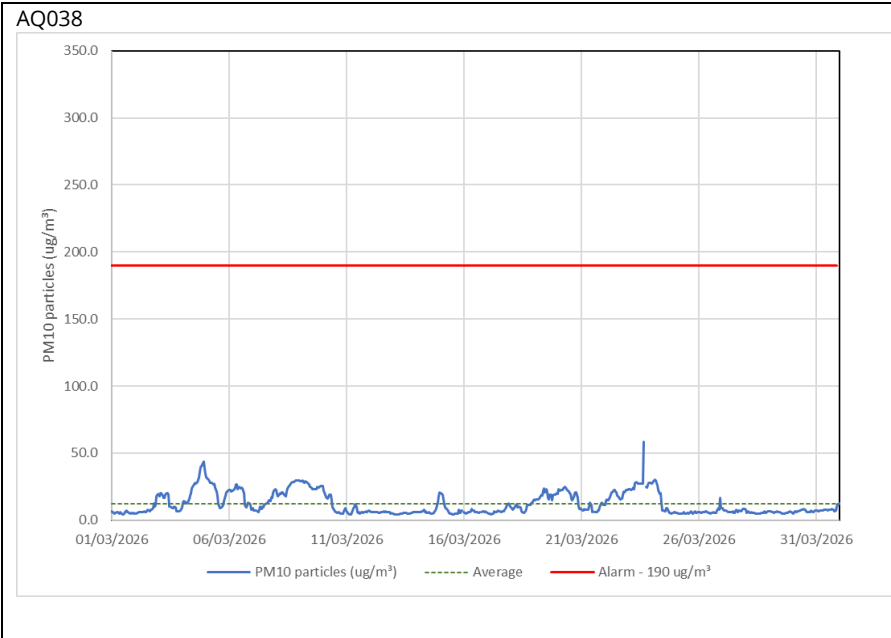
Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ028	23/03/2026 14:01 - 15:00; 207.8 µg/m ³	<p>An investigation determined that vacuum excavation and breaker works were being undertaken in close proximity to the dust monitor located along Wells House Road at the time of the exceedance.</p> <p>There were dust suppression measures were in place during the works. This included water suppression and Heras fencing around the works area.</p>	<p>Work was paused immediately when the dust exceedance alert was received. OCU are increasing the frequency of dust suppression across their works areas.</p> <p>The site team continued to closely monitor measured PM10 levels, though no further exceedances were observed during the day.</p> <p>All operatives were re-briefed of dust suppression procedures.</p> <p>No complaints were received.</p>

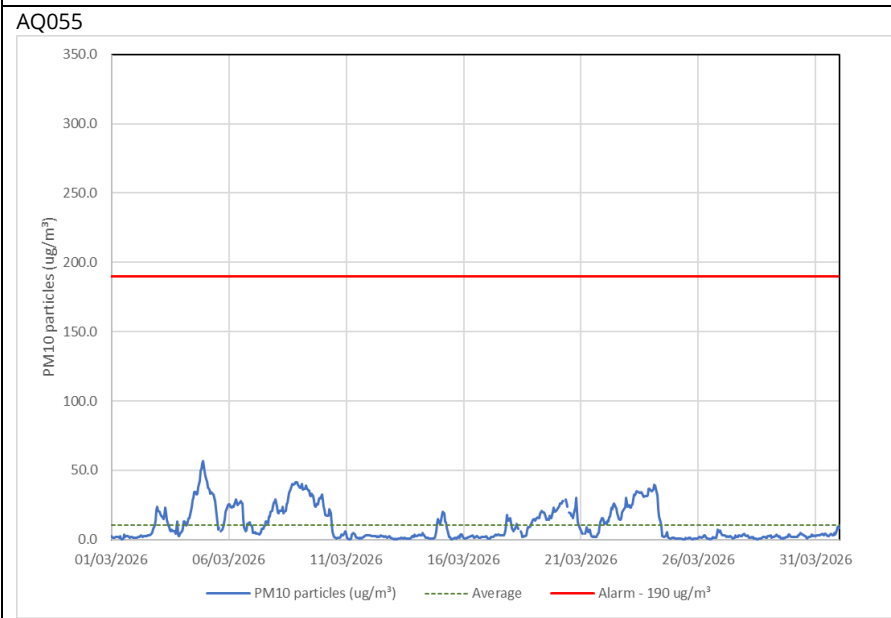
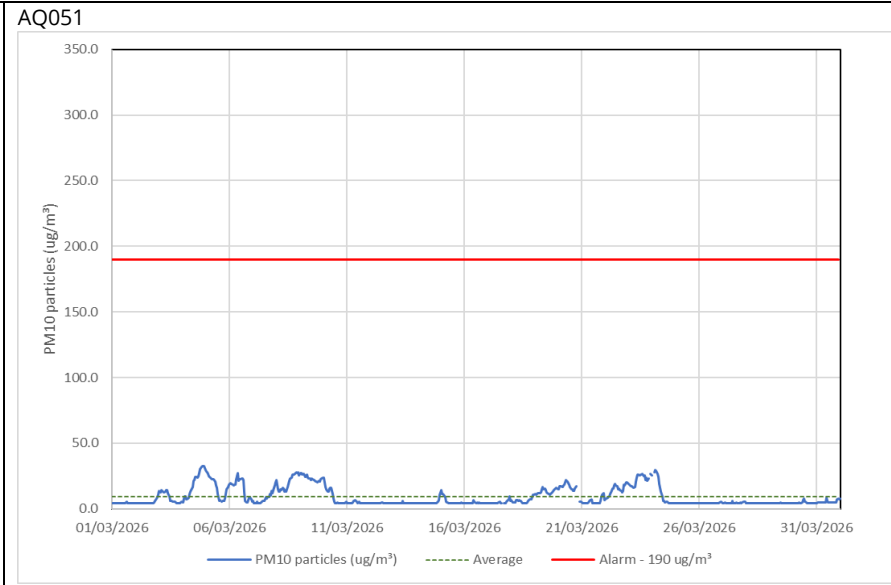
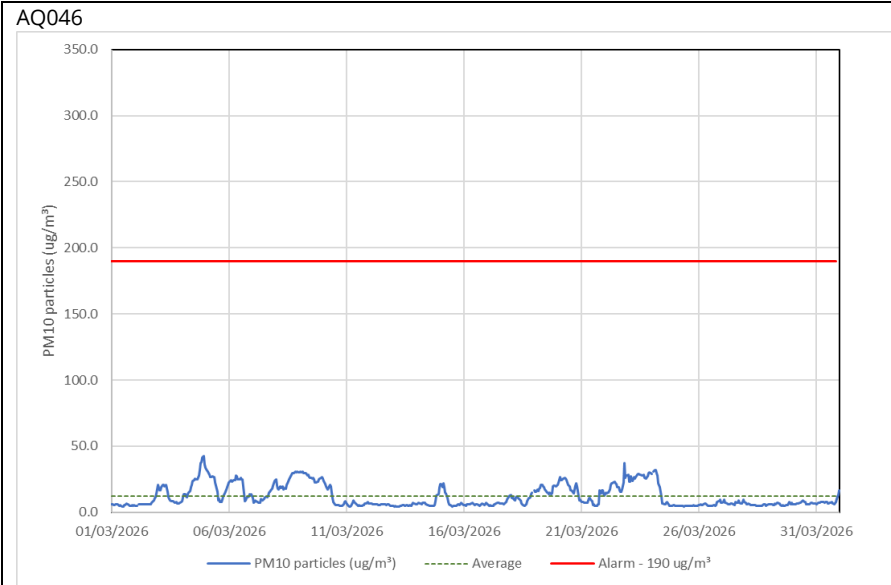
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors











Appendix C – Air Quality Monitoring Results

Table 4: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2026 (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	37	21											29
HS2-000020BN7	The Approach street sign	520959, 181102	31	39											35
HS2-000020BQF	Conway Drive sign post	520856, 181733	29	35											32
HS2-000020BQG	Lamp post outside No 1. Wells House Road on Old Oak Common Lane	521312, 182033	42	37											40
HS2-000020BP6	Triplicate site next to the Ealing, Western Avenue Acton roadside automatic monitoring station	520430, 181950	36	34											35

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 Gyrotory roadside automatic monitoring station	518537, 182708	50	47											49