HS2

April 2026

Air Quality and Dust Monitoring Monthly Report – April 2026

London Borough of Ealing

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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.

High Speed Two (HS2) Limited,
Two Snowhill
Snow Hill Queensway
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

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 March and April 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: Plant and traffic movement, survey works, RIDGID training, Easter shutdown preparations, concrete wagons / plant coordination.
- Station Box: Steel fixing, general carpentry, concrete works, scabbling, local concrete breaking.
- GWML and SAB: Building blockwork in Westbox and SAB, steel fixing, general carpentry, muck away, backfill operations. Blockwork complete in Eastbox.
- Site Haul Roads and Public Roads Adjacent to Site: Clean site haul and public roads, clean public pavements, clean areas around OOH and the Welfare Compound, clean vehicle wheels, dust suppression on site haul roads with a water bowser.
- OOCL: Digging and backfilling, excavating and laying pipe, pipe welding and installation, demolition of the abutment wall at Old Oak Common, breaking concrete and ramp construction.
- MEPH: Installing Unistrut, cutting, grooving and painting pipes, CMS cutting and joining with snagging, installation of electrical and installing modules and snagging.
- Blockwork: General blockwork below ground in Westbox and SAB, silo compound activities.
- Attenuation Tank: Material moving, loading and unloading in AD05, piling and plant movement.

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 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 PM_{10} concentrations of 190 µg/m^3, 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 No (0) dust trigger alerts were recorded during the monitoring period (April 2026).

1.1.9 Data capture was below 90% for AQ036 monitor due to power issues at the UTX site between 11th April and 14th April.

1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO_2) 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.

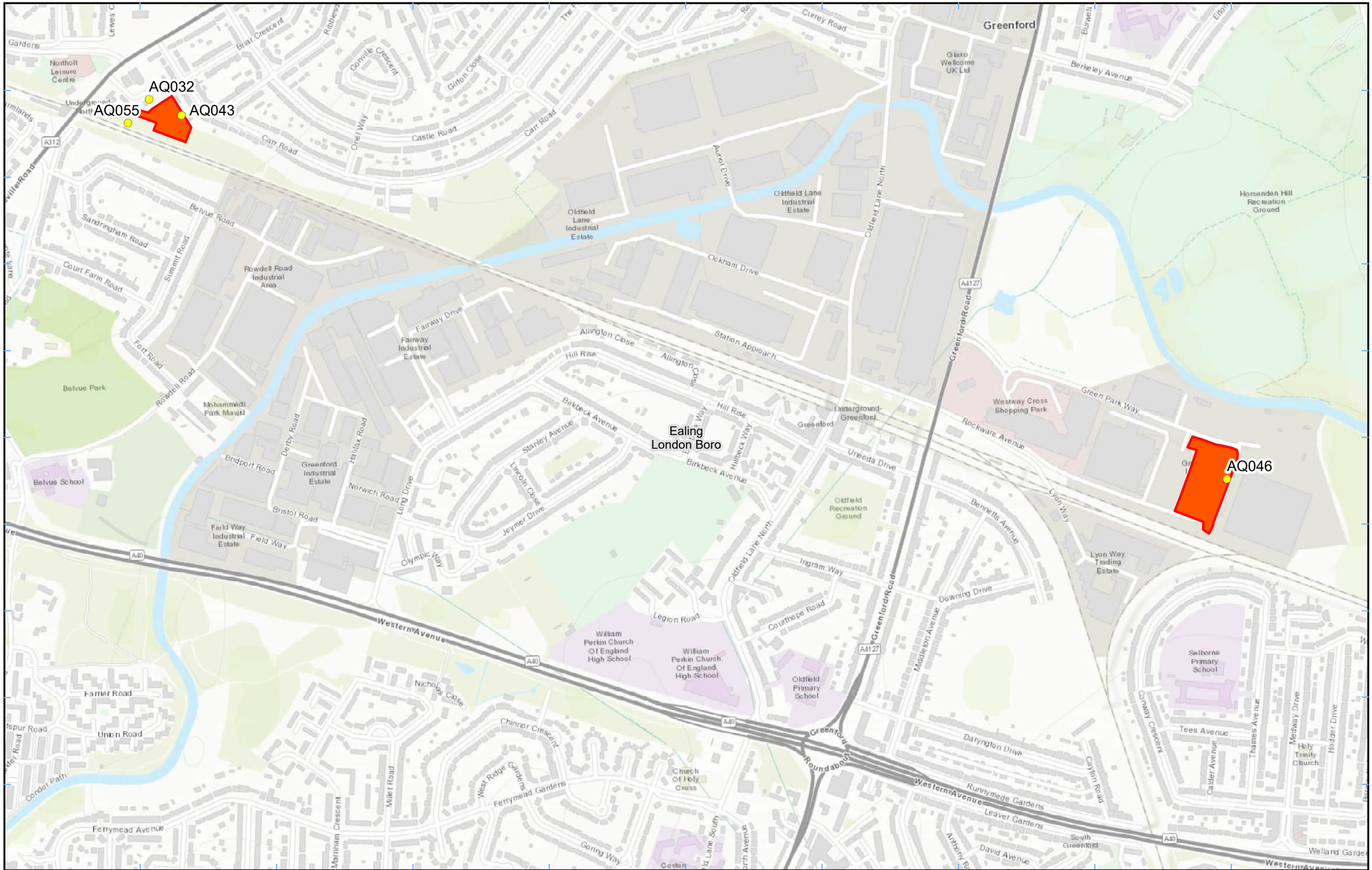
1.1.11 Diffusion tube monitoring results are as provided from the laboratory analysis, and therefore still require various analysis and adjustments to be undertaken. Final corrected results will be presented and described in the annual report. However, based on the results to date, no unexpected values were recorded during the monitoring period.

1.1.12 NO_2 monitoring locations and results are presented in Appendix C, Table 2, together with the 2026 running mean.

1.1.13 There were no (0) complaints received during the reporting period (April 2026).

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

Map Number

Map Name

Worksite & Monitoring Locations In LBE (Sheet 1)

London Borough of Ealing

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:7,000

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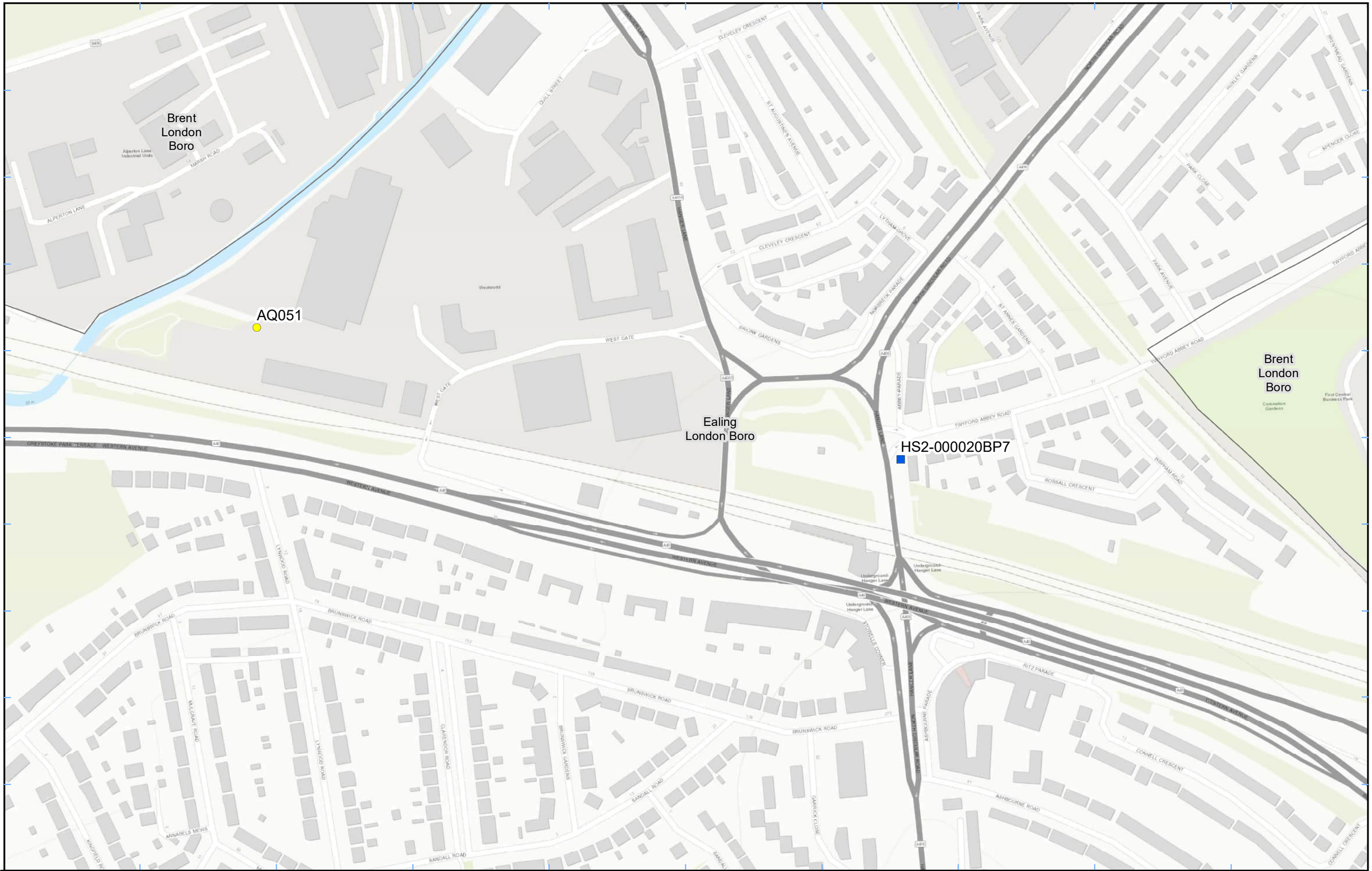
Metres

Doc Number:

Date: 18/05/23



Legend

- Diffusion Tube
- District Borough Unitary Boundaries
- Dust Monitor

Map Number

Map Name

Monitoring Locations
In LBE (Sheet 2)

London Borough of Ealing

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

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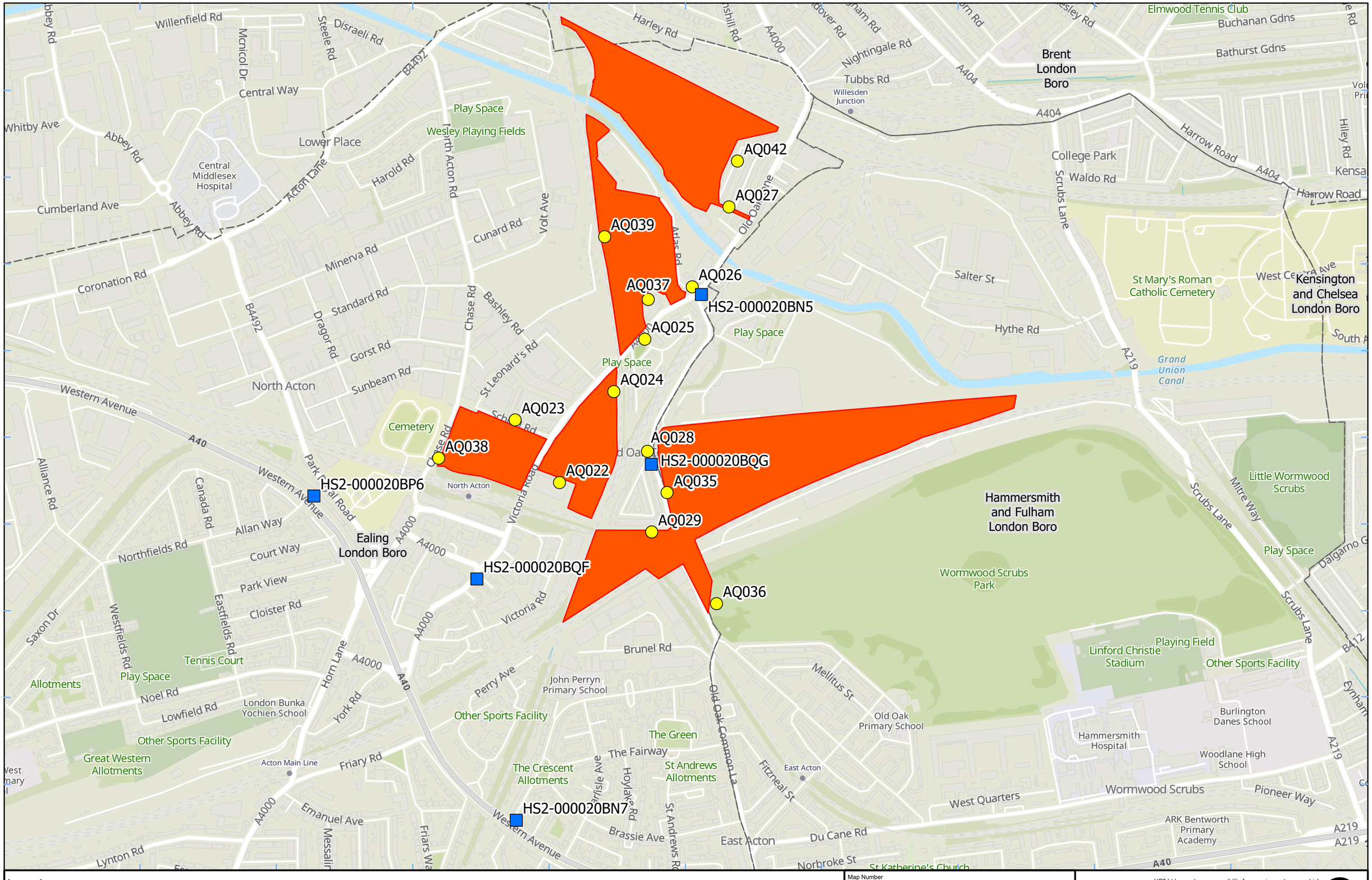


Legend

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

Map Number

Map Name

Worksite and Monitoring Locations In LBE (Sheet 3)

London Borough of Ealing

Scale at A3: 1:9,000

Metres

Doc Number:

Date: 06/02/25

Appendix B – Dust Monitoring Results

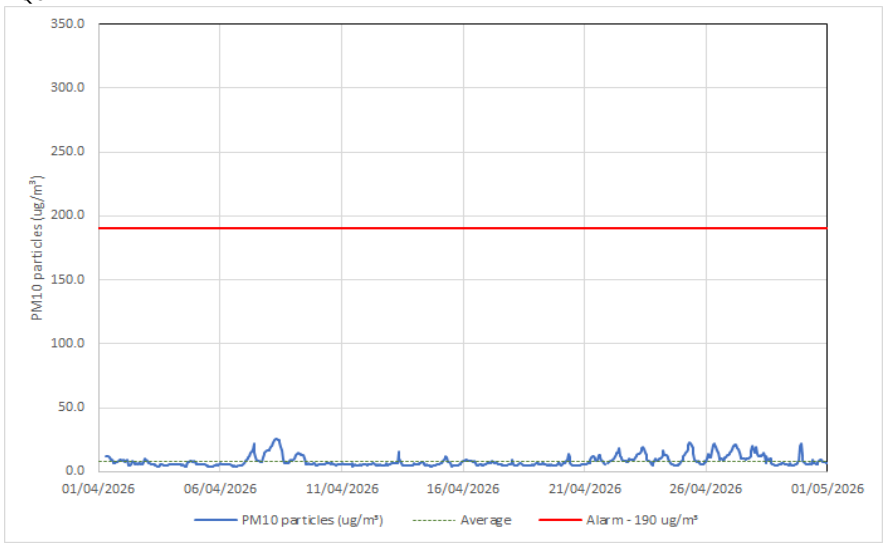
Table 1: Dust Monitoring Locations and Results

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 ($\mu g/m^3$)	Minimum 1-hour PM_{10} concentration ($\mu g/m^3$)	Maximum 1-hour PM_{10} concentration ($\mu g/m^3$)	Number of 1-hour periods exceeding trigger level of 190 $\mu g/m^3$	Data capture (%)
AQ022	521072, 181985	Boden House	M	Yes	N	8.2	4.0	25.5	0	98.8
AQ023	520956, 182149	School Road	M	Yes	N	5.4	0.2	25.9	0	99.4
AQ024	521214, 182223	Braitrim House	M	Yes	N	8.6	4.0	48.7	0	99.3
AQ025	521295, 182360	Victoria Road	M	Yes	N	5.7	0.2	30.7	0	97.9
AQ026	521419, 182497	Old Oak Lane	M	Yes	N	5.3	0.1	29.8	0	99.2
AQ027	521515, 182706	Channel Gate Road	M	Yes	N	9.0	5.0	24.8	0	99.0
AQ028	521302, 182067	Wells House Road	M	Yes	N	18.9	1.3	83.8	0	100.0
AQ029	521453, 182132	Old Oak Common	H	Yes	N	15.8	1.8	90.8	0	99.3
AQ032	513402, 184536	Badminton Close	M	Yes	N	5.9	1.0	27.1	0	98.9
AQ035	521353, 181959	Old Oak Common	H	Yes	N	20.9	1.6	93.0	0	100.0
AQ036	521482, 181668	UTX South – Triangle Site	M	Yes	N	13.7	1.7	54.4	0	86.7
AQ037	521304, 182464	Atlas Road	M	Yes	N	5.4	0.2	28.9	0	99.7

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 ($\mu g/m^3$)	Minimum 1-hour PM_{10} concentration ($\mu g/m^3$)	Maximum 1-hour PM_{10} concentration ($\mu g/m^3$)	Number of 1-hour periods exceeding trigger level of 190 $\mu g/m^3$	Data capture (%)
AQ038	520756, 182049	Chase Road	M	Yes	N	8.0	4.0	25.0	0	100.0
AQ039	521190, 182628	Atlas Road 2	M	Yes	N	5.3	0.7	27.2	0	99.9
AQ042	521537, 182826	Stephenson Road	M	Yes	N	7.5	4.0	30.0	0	99.3
AQ043	513468, 184504	Mandeville Road	M	Yes	N	4.4	0.1	28.1	0	99.2
AQ046	515593, 183764	Green Park Way	M	Yes	N	8.7	4.0	37.0	0	98.3
AQ051	517976, 182823	Westgate	M	Yes	N	5.8	4.0	21.5	0	98.2
AQ055	513359, 184488	Mandeville Road 2	M	Yes	N	5.2	0.1	28.0	0	99.0

Figure 4: Construction dust 1-hour mean indicative PM_{10} concentration for all dust monitors

AQ022



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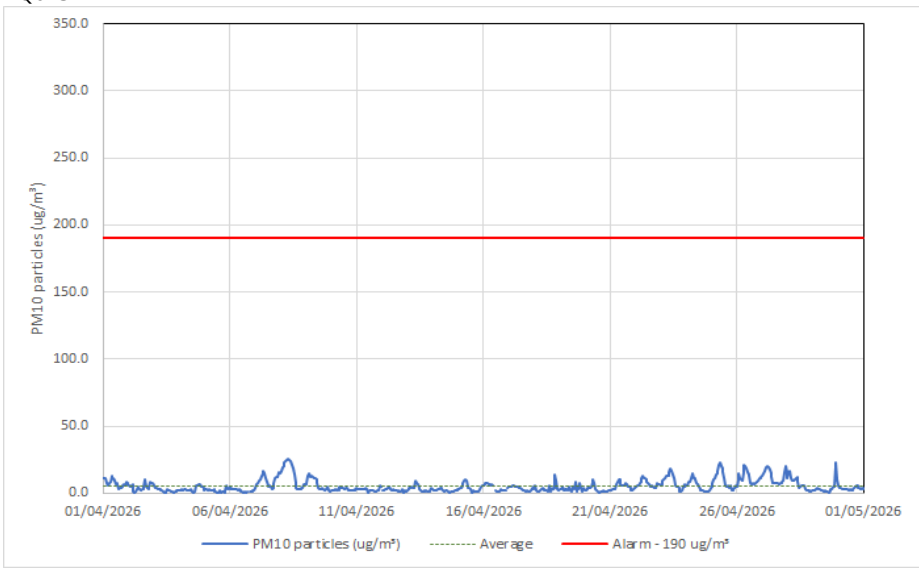

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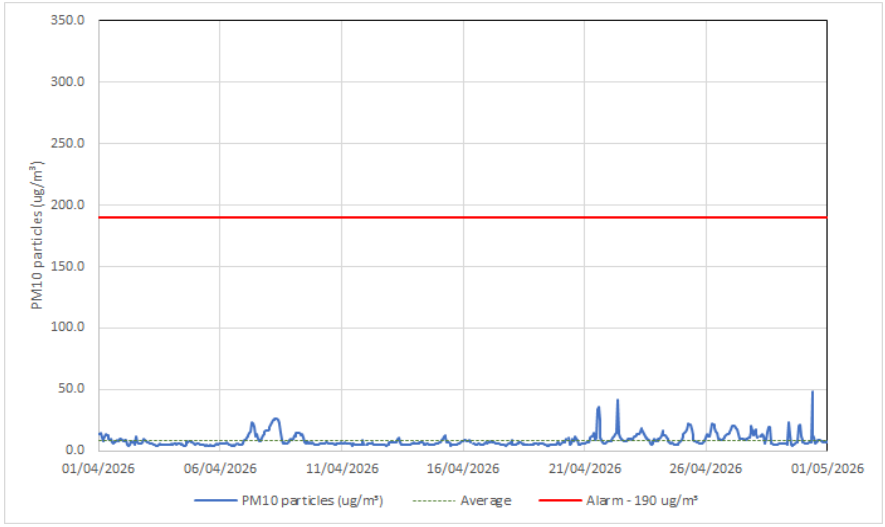

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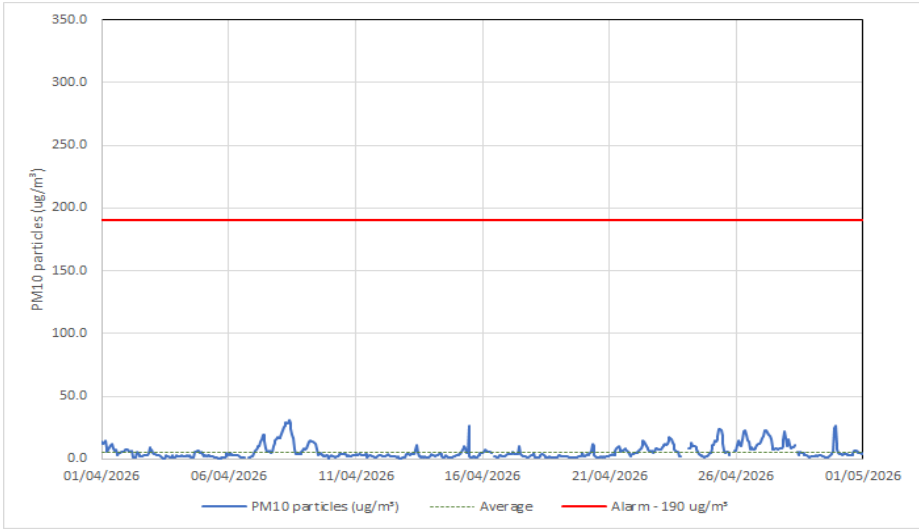

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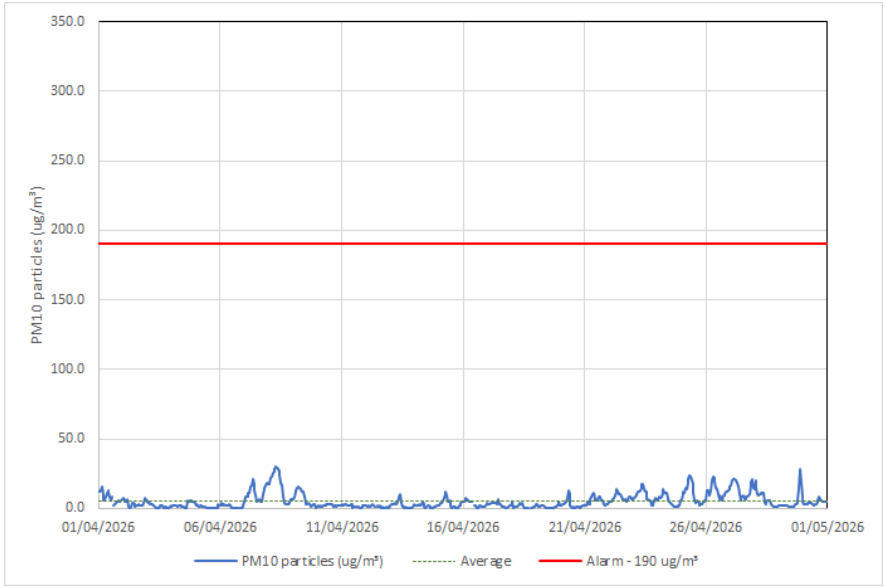

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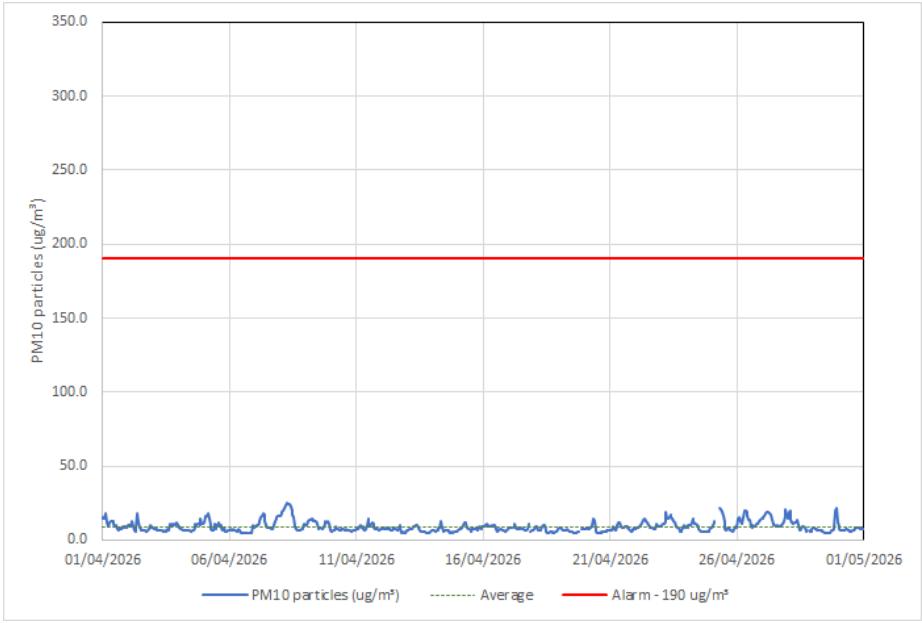

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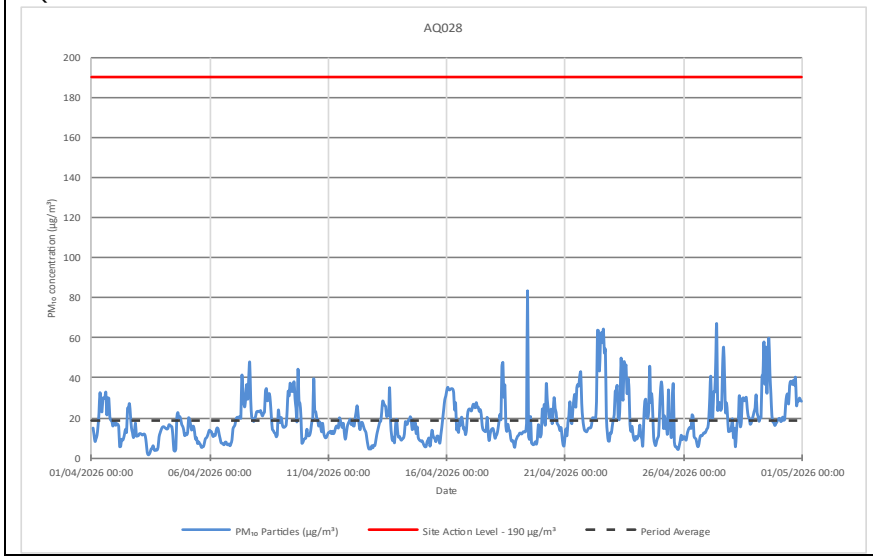

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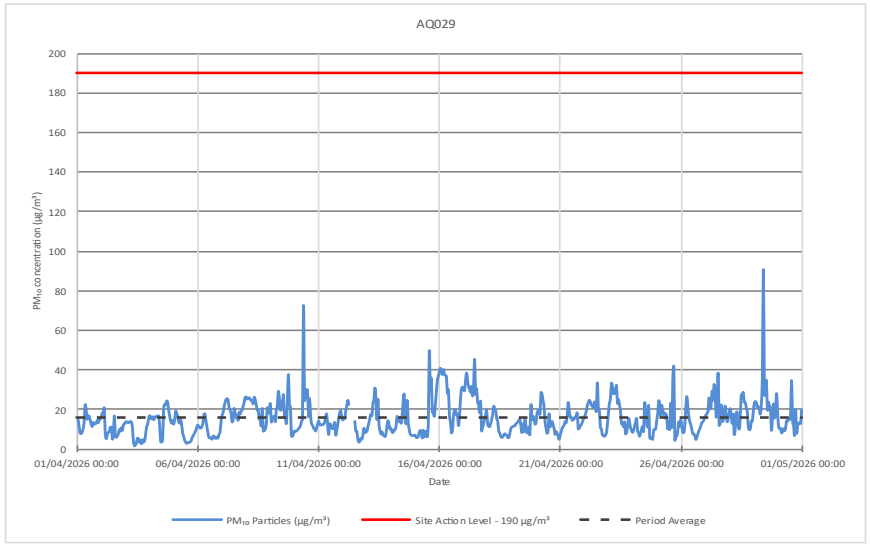

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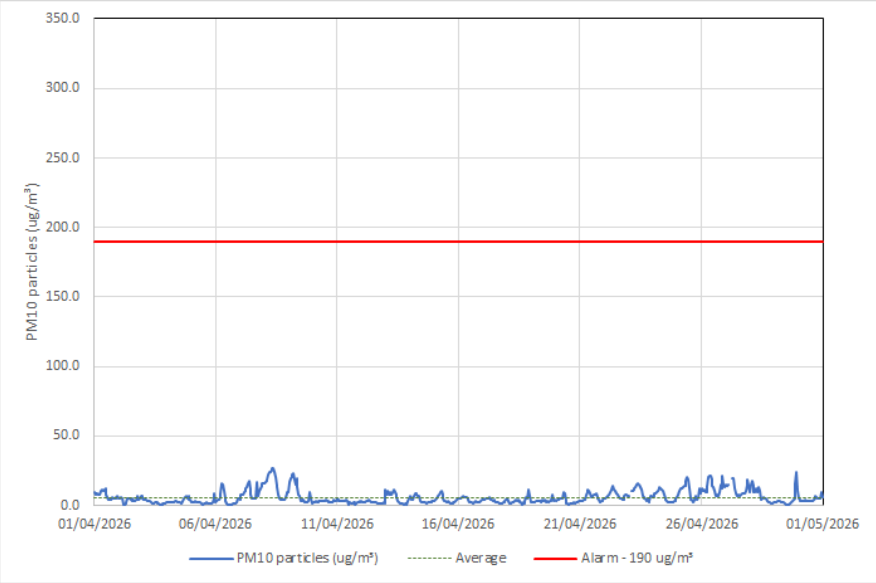

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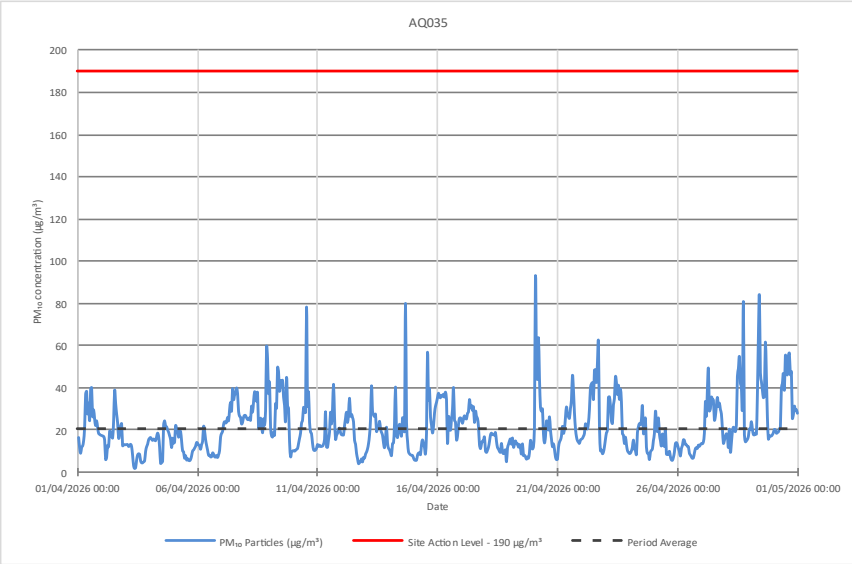

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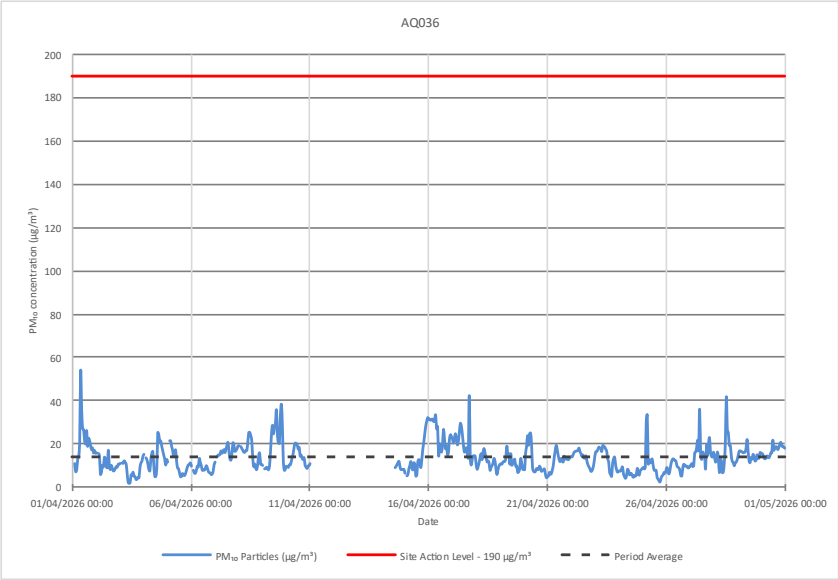

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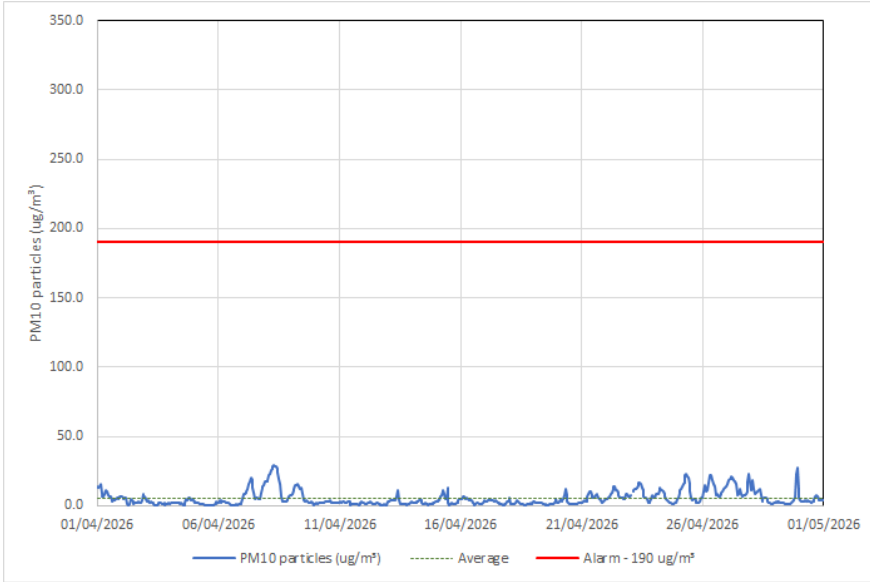

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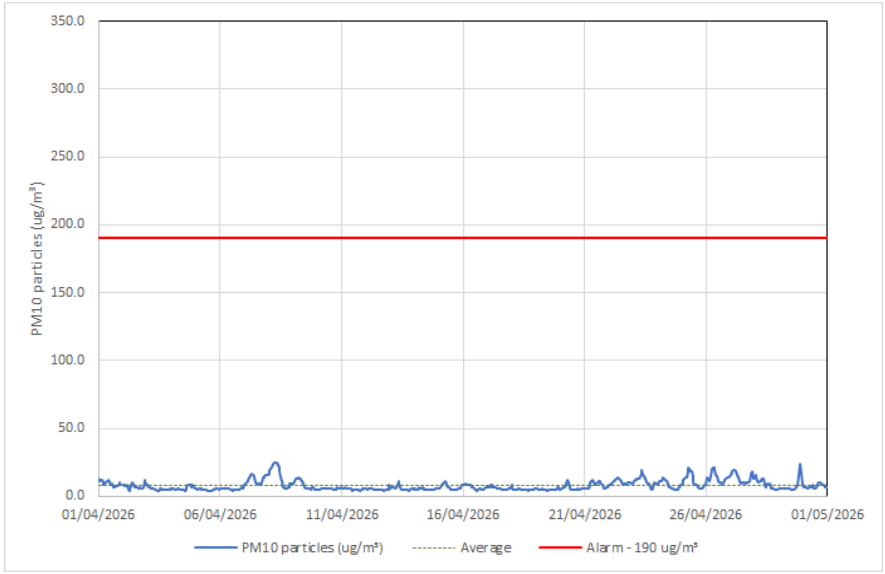

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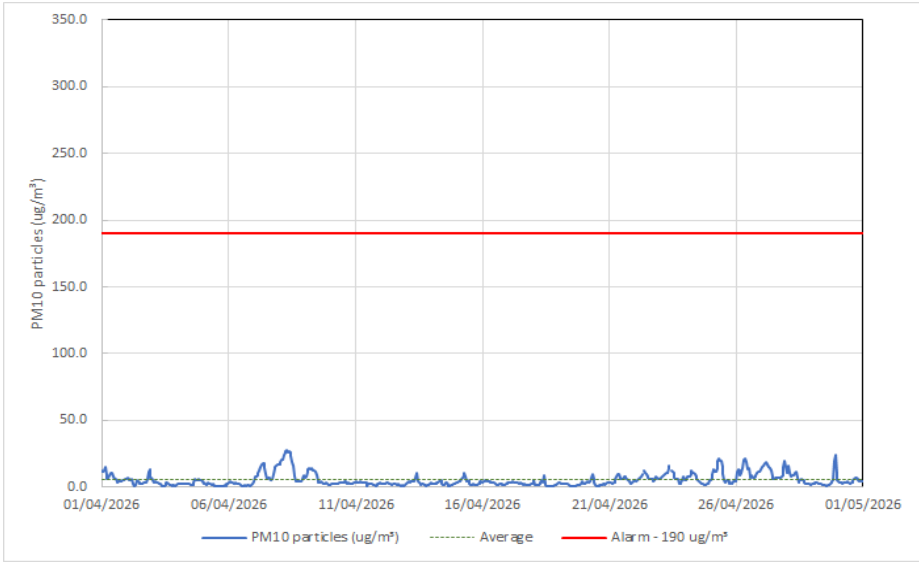

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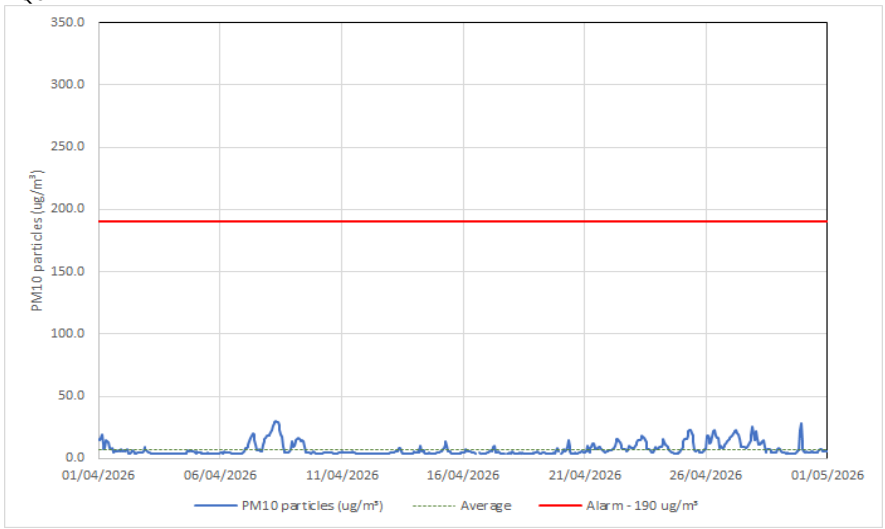

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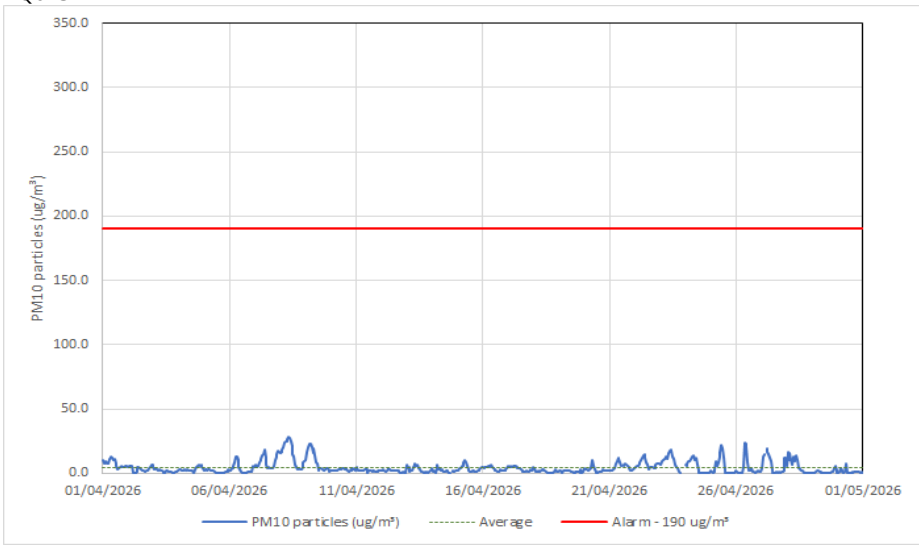

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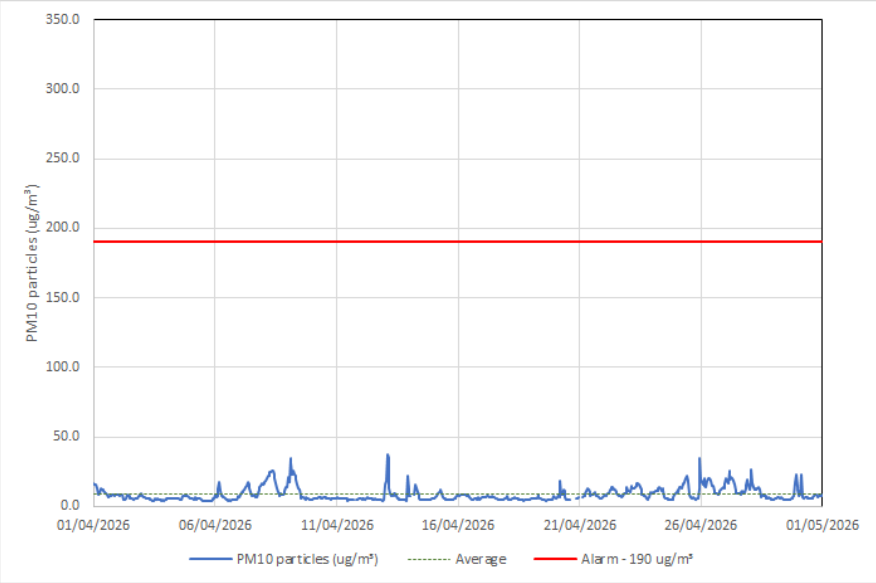

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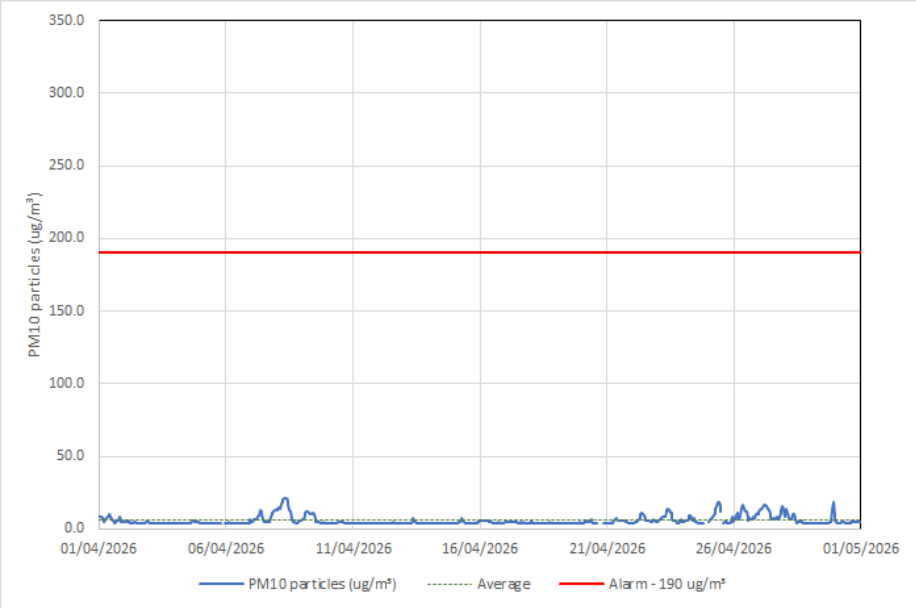

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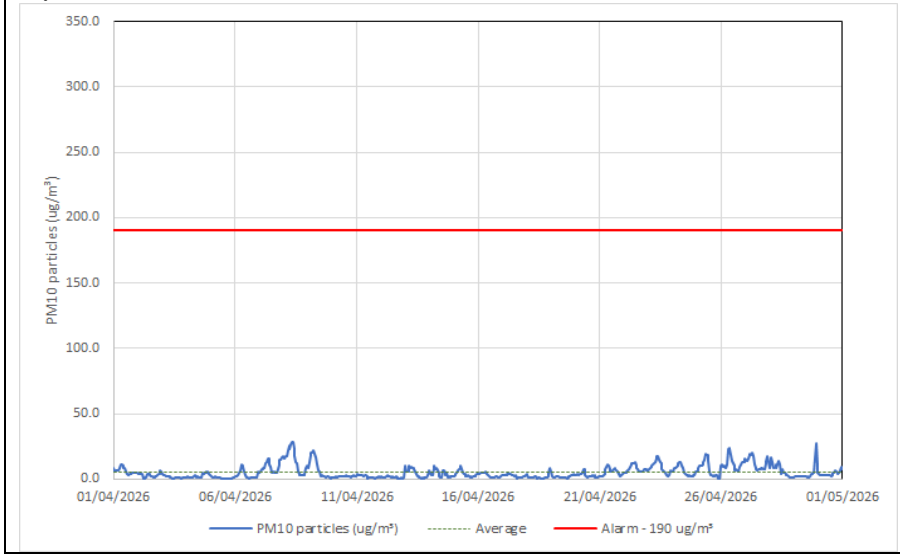

Appendix C – Air Quality Monitoring Results

Table 2: NO_2 monitoring locations around highways, NO_2 concentrations and monthly monitoring results with running mean for 2026 (µg/m^3)

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	35										31
HS2-000020BN7	The Approach street sign	520959, 181102	31	39	36										35
HS2-000020BQF	Conway Drive sign post	520856, 181733	29	35	30										31
HS2-000020BQG	Lamp post outside No 1. Wells House Road on Old Oak Common Lane	521312, 182033	42	37	Tube Missing										40
HS2-000020BP6	Triplicate site next to the Ealing, Western Avenue Acton roadside automatic monitoring station	520430, 181950	36	34	29										33

[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	50	47	45										48