

## Air Quality and Dust Monitoring Monthly Report – July 2025

London Borough of Hammersmith and Fulham



## 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](mailto:HS2enquiries@hs2.org.uk)

Website: [www.gov.uk/hs2](http://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 Hammersmith and Fulham (LBHF) during June and July 2025 respectively.

1.1.2 Figure 1 and Figure 2 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](https://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 and Figure 2, include:

## **Old Oak Common Depot**

- General Site: Concrete batching, concrete batching plant demobilisation, materials management and haulage.
- Urban Realm: Concrete pours.
- Station Box: Steel fixing, concreting, formwork erection and striking.
- GWML: Concrete preparation pours, Backfilling, plant movement.
- SAB: Concreting, formwork installation, backfilling.
- Site haul roads and public roads adjacent to site: Cleaning with road sweeper.
- OOCL East: Auger drilling, core drilling.
- OOCL: Pipe laying, digging, backfilling, welding.
- MEPH: Compound set up, general site logistics.
- Blockwork: Blockwork, housekeeping.
- Attenuation Tank: Excavation, blowing out rubbing, concrete pours, formwork fixing rebar.

1.1.5 Four (4) 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 3. 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<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, 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 Diffusion tube monitoring of Nitrogen Dioxide (NO<sub>2</sub>) is undertaken at seven (7) locations around highways within the LBHF as part of the management of air quality where significant effects may occur as a result of the scheme.
- 1.1.10 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.
- 1.1.11 NO<sub>2</sub> monitoring locations and results are presented in Appendix C, Table 4, together with the 2025 running mean.
- 1.1.12 Data capture was below 90% for AQ029 monitor due to a technical fault with the monitor developing on 16th July 2025. This issue was resolved on 30th July 2025.
- 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.

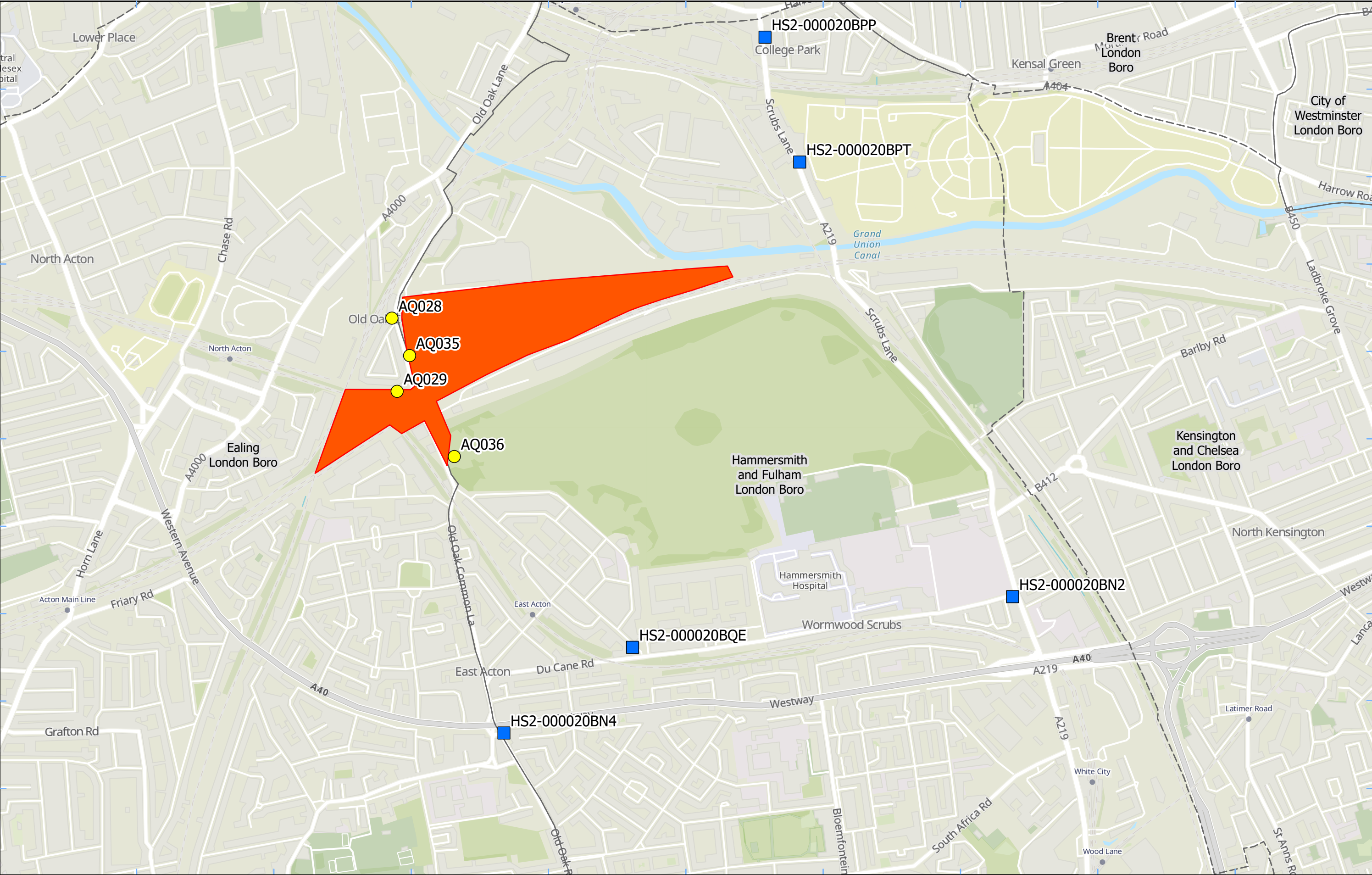
Table 1: Summary of complaints received during July 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46561-C	N/A	Increase in traffic fumes in the area.	All air quality monitors checked, no breaches were recorded. Resident has been updated.

# Appendix A – Worksites and Monitoring Locations

Figure 1 and 2: Worksites and monitoring locations within the LBHF





**Legend**

Dust Monitor    Worksite

Diffusion Tube    District Borough Unitary Boundaries

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Map Number
Map Name
<b>Worksite and Monitoring Locations In LBHF (Sheet 1)</b>
<b>London Borough of Hammersmith and Fulham</b>



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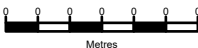
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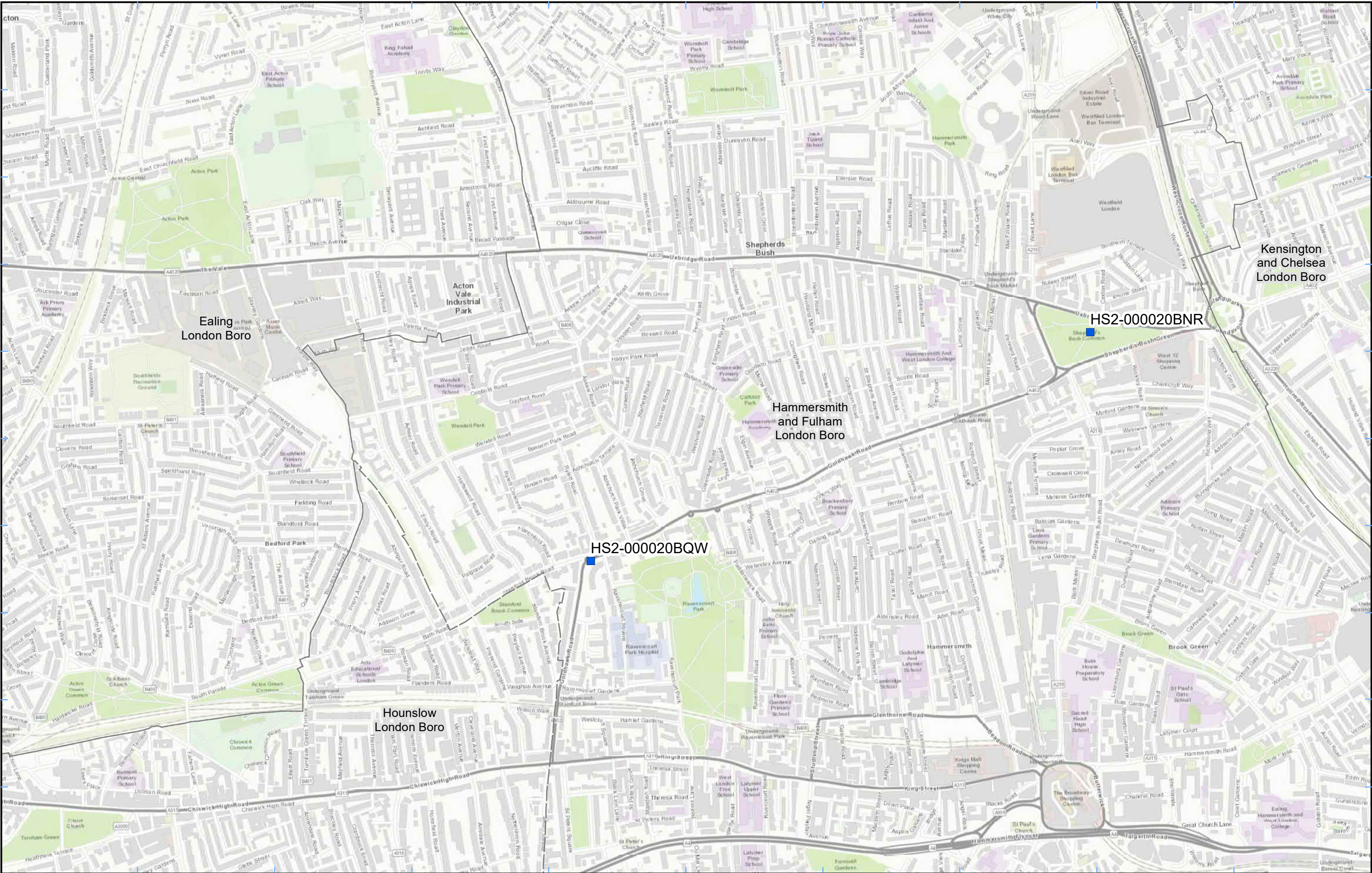


Scale at A3: 1:10,000





Date: 06/02/25





**Legend**

-  Diffusion Tube
-  District Borough Unitary Boundaries


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Map Number


Map Name

**Monitoring Locations In LBHF  
(Sheet 2)**

**London Borough of Hammersmith  
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Scale at A3: 1:10,000

0 100 200 300 400  
Metres

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## Appendix B – Dust Monitoring Results

Table 2: Dust Monitoring Locations and Results

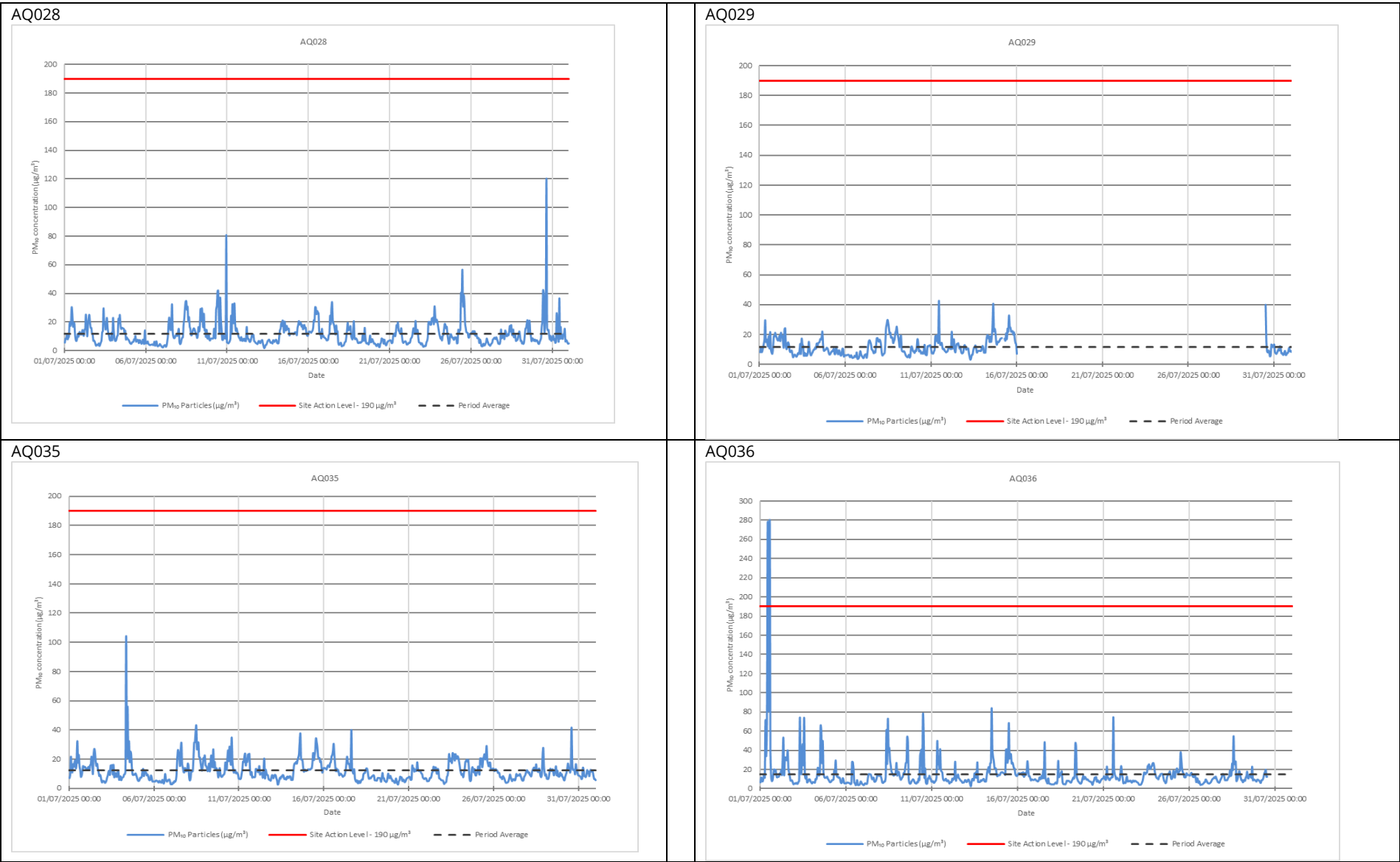
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1-hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture (%)
AQ028	521302, 182067	Wells House Road	M	Yes	No	11.8	1.9	120.1	0	100.0
AQ029	521453, 182132	Old Oak Common	H	Yes	No	11.8	3.1	42.5	0	53.0
AQ035	521353, 181959	Old Oak Common	H	Yes	No	12.1	2.7	104.5	0	100.0
AQ036	521482, 181668	UTX South – Triangle Site	M	Yes	No	15.0	2.2	280.0	3	95.4

Table 3: Summary of exceedances during period (July 2025)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ036	01/07/2025 10:01 – 11:00; 273.6 µg/m <sup>3</sup> 11:01 – 12:00; 225.1 µg/m <sup>3</sup> 13:01 – 14:00; 280.0 µg/m <sup>3</sup>	An investigation was undertaken and determined that hot and dry weather conditions while excavating in Wormwood Scrubs. The works were taking place in very close proximity to the monitor with the wind blowing in a south-easterly direction (i.e. directly towards the monitor) throughout the course of the day. Dust suppression was in operation throughout all works that afternoon.	OCU increased the frequency of dust suppression across all areas of the sites given the hotter drier weather experienced in July. An additional water bowser was brought in to aid dust suppression within the affected area and this approach.



Figure 3: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors



## Appendix C – Air Quality Monitoring Results

Table 4: NO<sub>2</sub> monitoring locations around highways NO<sub>2</sub> concentrations and monthly monitoring results with running mean for 2025 (µg/m<sup>3</sup>)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>12</sup>
HS2-000020BN2	Lamp post on Du Cane Road	523092, 181264	50	32	52	34	28	28							37
HS2-000020BN4	End of cycle lane sign on Old Oak Road	521625, 180871	42	127	51	44	29	26							53
HS2-000020BNR	Lamp posts in Shepherd's Bush Common	523481, 179871	39	34	30	34	25	21							30
HS2-000020BPP	Sign post on A219 Scrubs Lane, South of Harrow Road	522378, 182877	49	17	44	37	23	16							31
HS2-000020BPT	Controlled Zone/Zone Ends road sign on A219 Scrubs Lane, north of Hythe Road	522478, 182517	Tube Missing	Tube Missing	36	38	27	24							31
HS2-000020BQE	Lamp post next to No 11 Wulfstan Street	521996, 181118	34	29	42	22	11	27							27
HS2-000020BQW	Lamp post on A402 Goldhawk Road	522037, 179209	37	33	Tube Missing	31	21	20							28

<sup>1</sup> 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.

<sup>2</sup> 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.