

Air Quality and Dust Monitoring Monthly Report – August 2025

London Borough of Hillingdon



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 Hillingdon (LBH) during July 2025 and August 2025 respectively.
- 1.1.2 Figure 1 to Figure 4 in Appendix A present the current worksites together with air quality 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 4, include:
- Gatemead and West Ruislip Embankment, Breakspear Road South and River Pinn Underbridge**
- Concreting;
 - Groundworks; and
 - Materials management.
- Copthall North**
- Groundworks and materials management.
- West Ruislip Portal**
- Site demobilisation.
- South Ruislip**
- Vent shaft and headhouse construction;
 - Ground works;
 - Concrete works; and
 - Materials management.
- Northern Sustainable Placement Area (NSPA)**
- Landscaping, seeding and planting.
- Southern Sustainable Placement Area (SSPA)**
- Seeding, planting and demobilisation.
- 1.1.5 Nine (9) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.

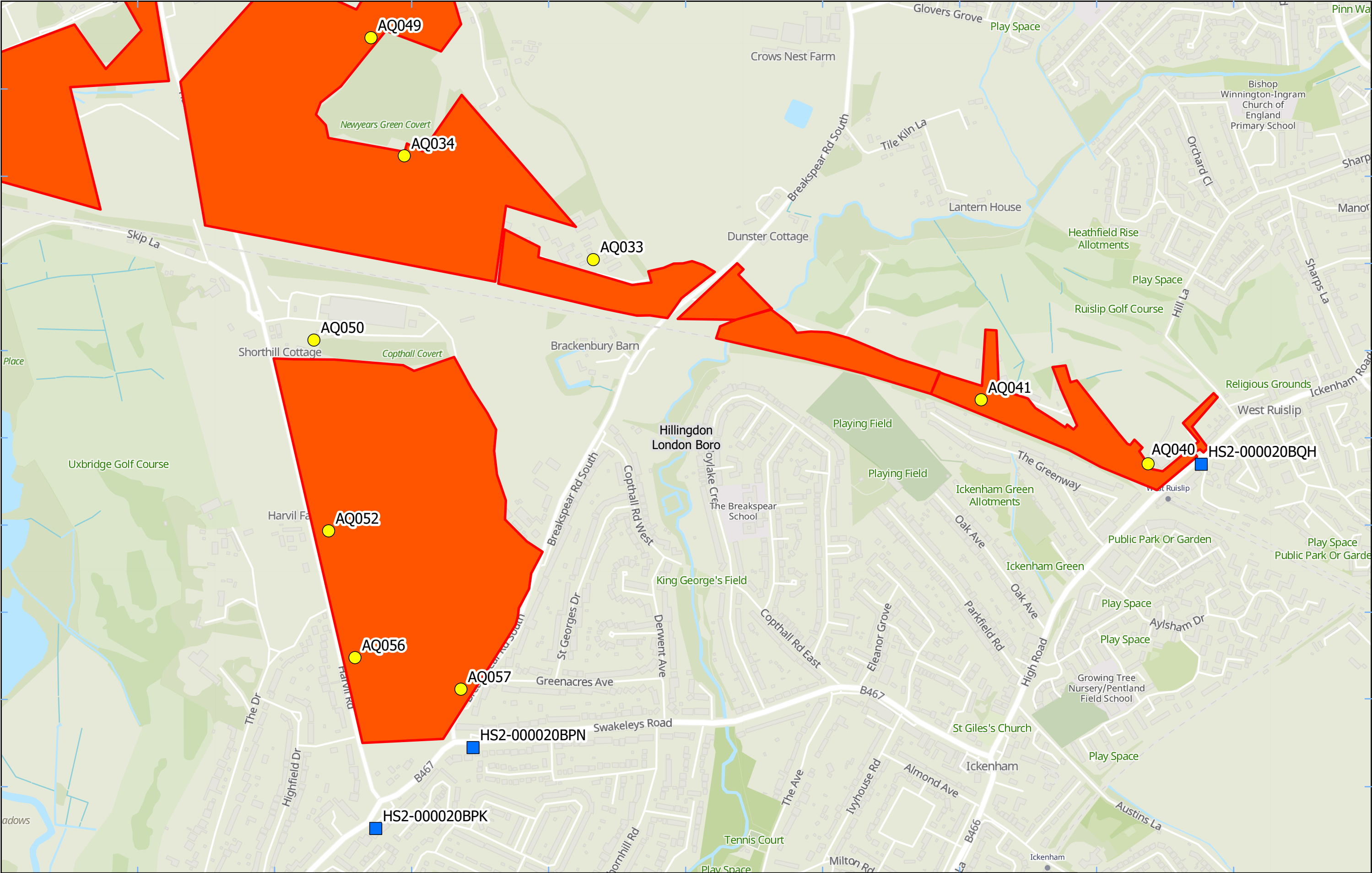
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with line charts of monthly data from each dust monitor in Figure 5. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors 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 190µg/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 No (0) dust trigger alerts were recorded during the monitoring period (August 2025).
- 1.1.9 Data capture for monitor AQ033 was below 90% due to a fault with the hydrogen generator powering the monitor, subsequently replaced in September.
- 1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) is undertaken at eleven (11) locations around highways within the LBH as part of the management of air quality where significant effects may 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 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 Table 1 provides a summary of the complaint information relating to dust and air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during August 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46672-C	N/A	Large amounts of dust on personnel property.	All monitors were checked, no exceedances have been breached. All mitigation measures are in place to reduce dust in the area. Resident has been offered a complimentary car washing voucher as a good will gesture.

Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 4: Current monitoring locations within the LBH



Legend

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

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Contains data from OS Zoomstack

Map Number

Map Name

**Worksite and Monitoring Locations
in LBH (Sheet 1)**

London Borough of Hillingdon



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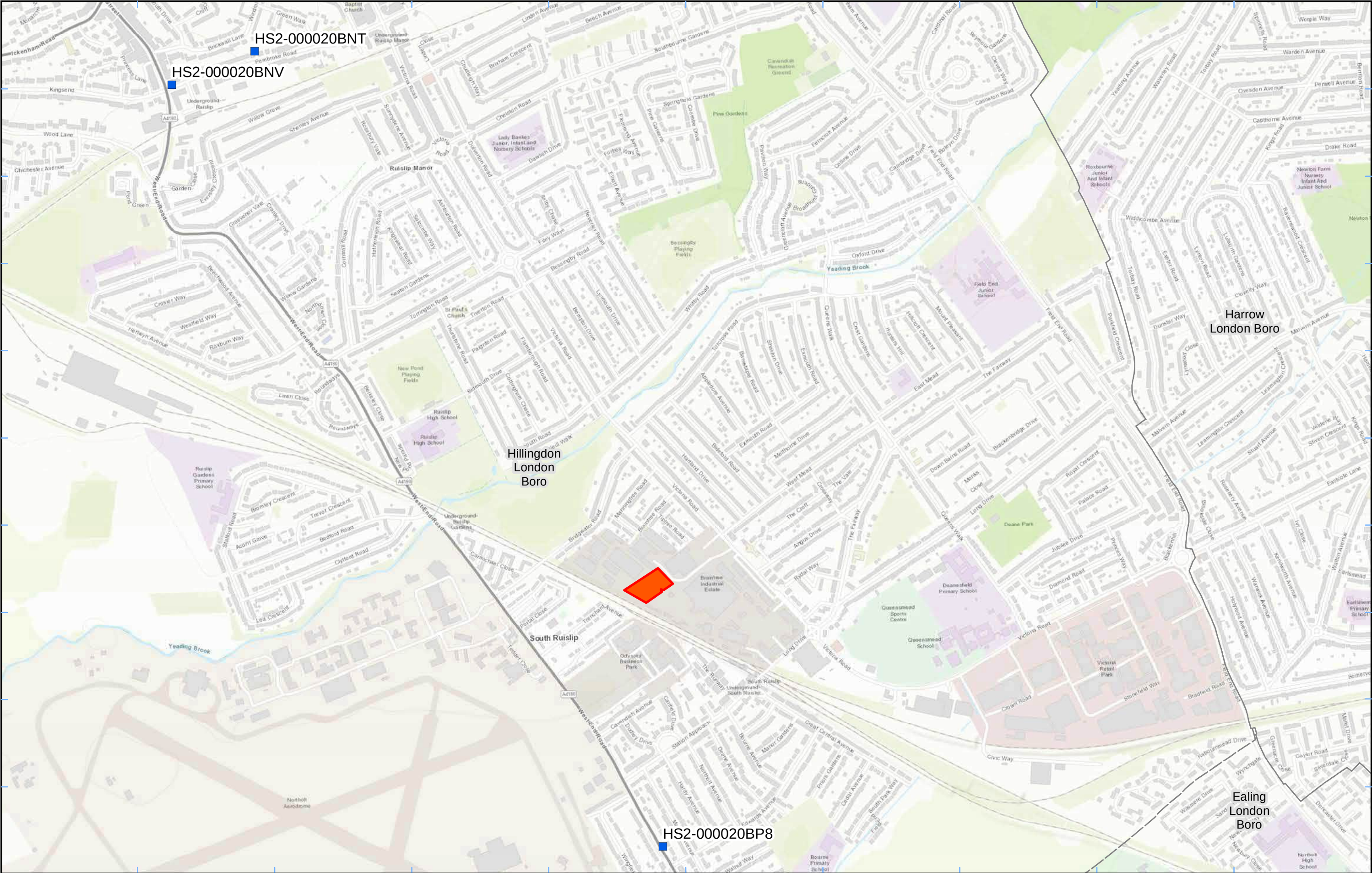


Scale at A3: 1:8,000



Metres

Date: 10/07/25



Legend

 Diffusion Tube  District Borough Unitary Boundaries

 Worksite

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Map Number

Map Name

**Worksite and Monitoring Locations
In LBH (Sheet 2)**

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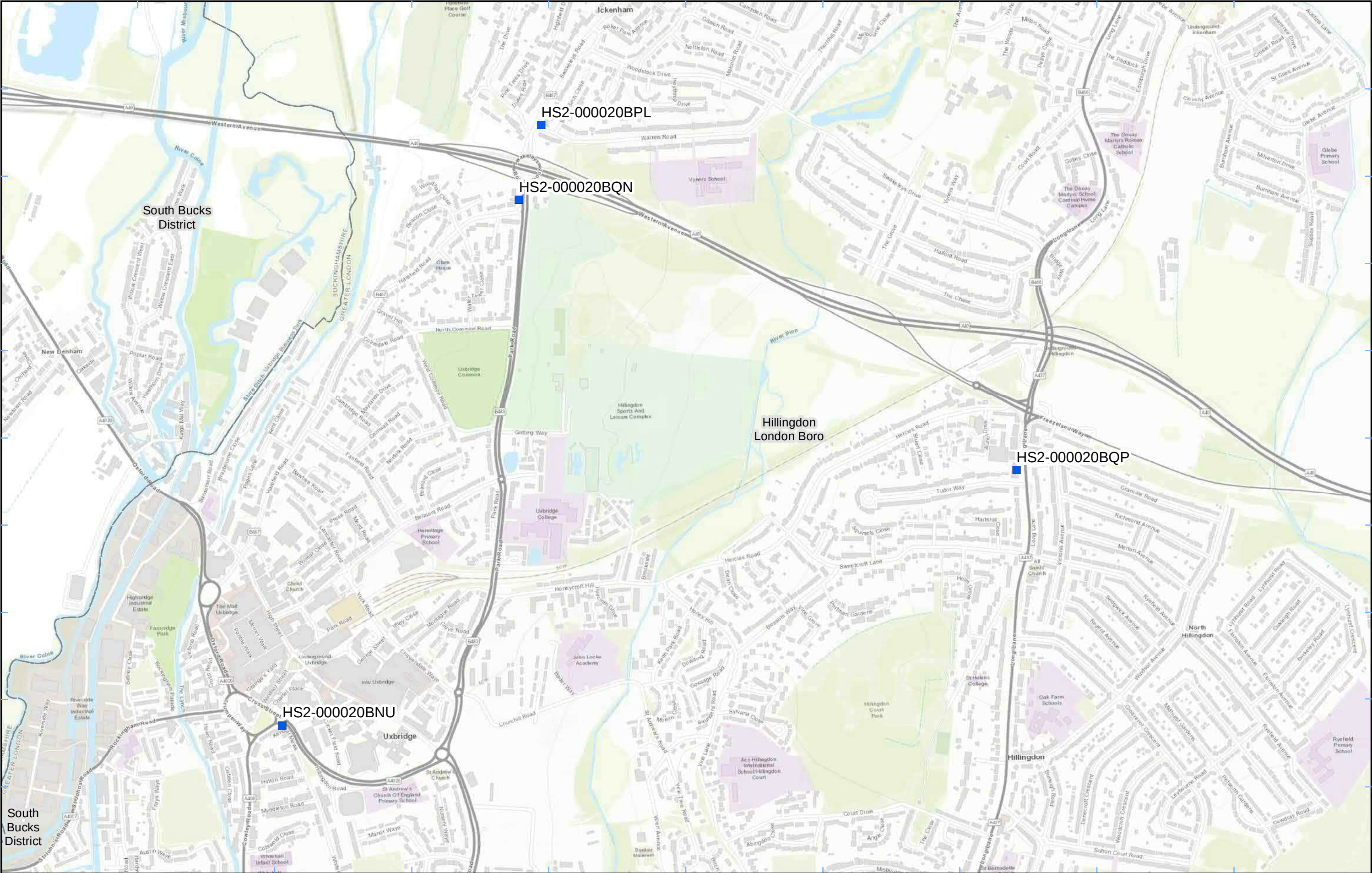
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0 100 200 300 400
Metres

Date: 08/12/20



Legend

- Diffusion Tube
- District Borough Unitary Boundaries

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Map Number

Map Name

Monitoring Locations In LBH (Sheet 3)

London Borough of Hillingdon



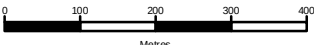
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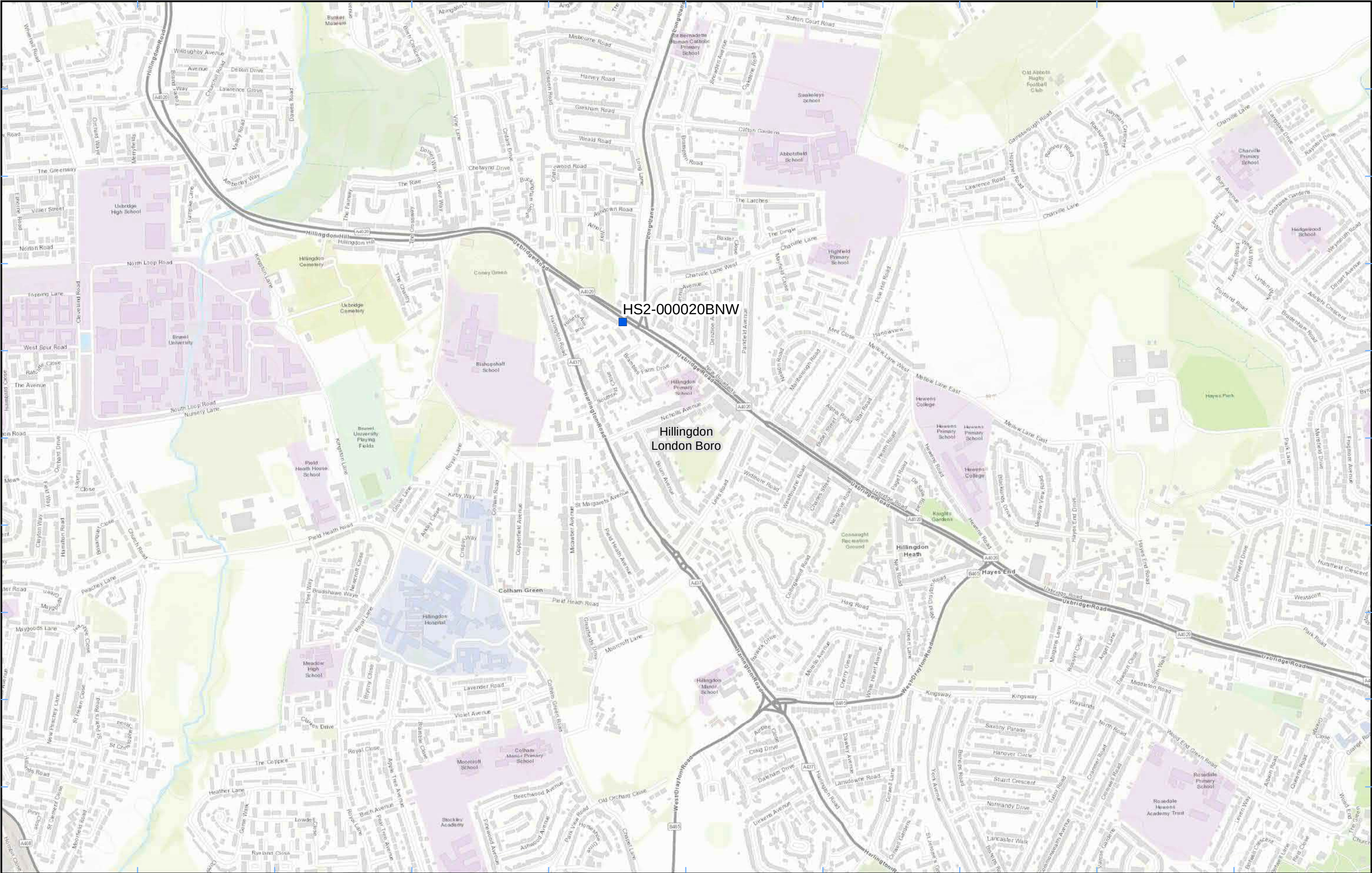
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Date: 08/12/20



Legend

- Diffusion Tube
- District Borough Unitary Boundaries

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Map Number

Map Name

Monitoring Locations In LBH (Sheet 4)

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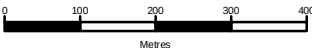
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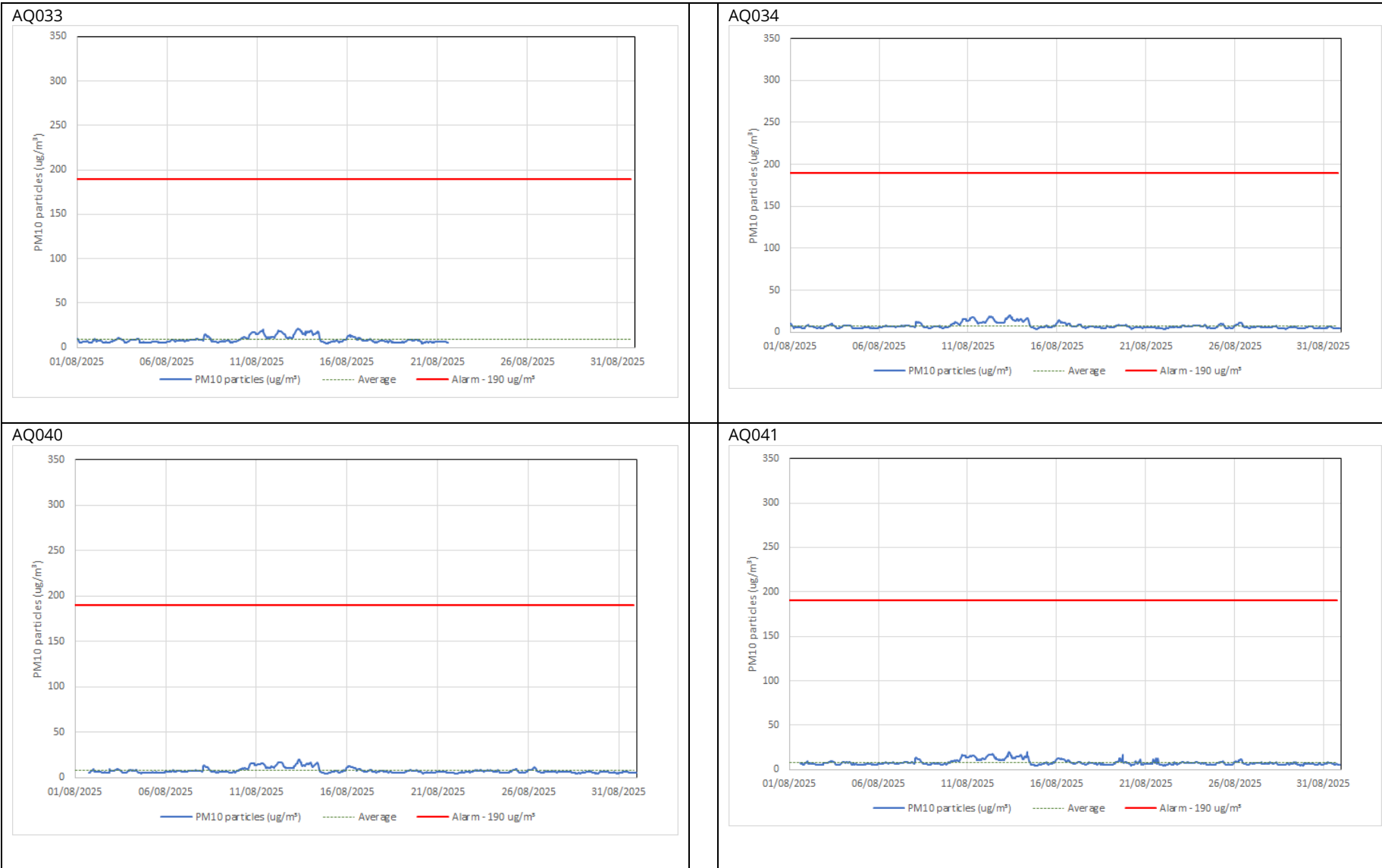
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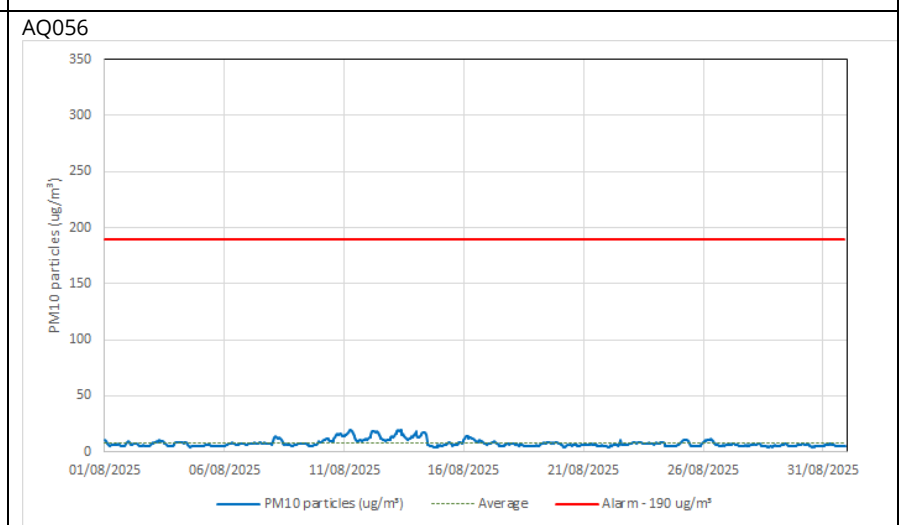
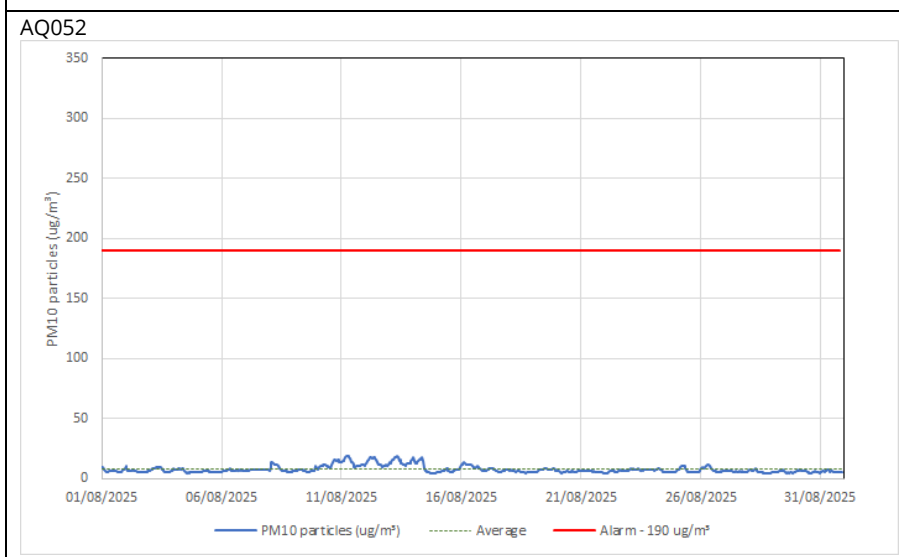
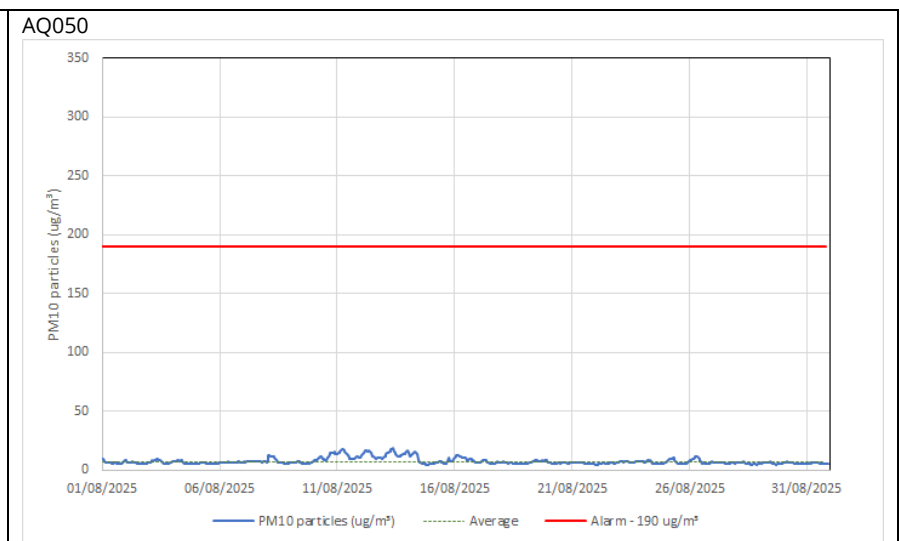
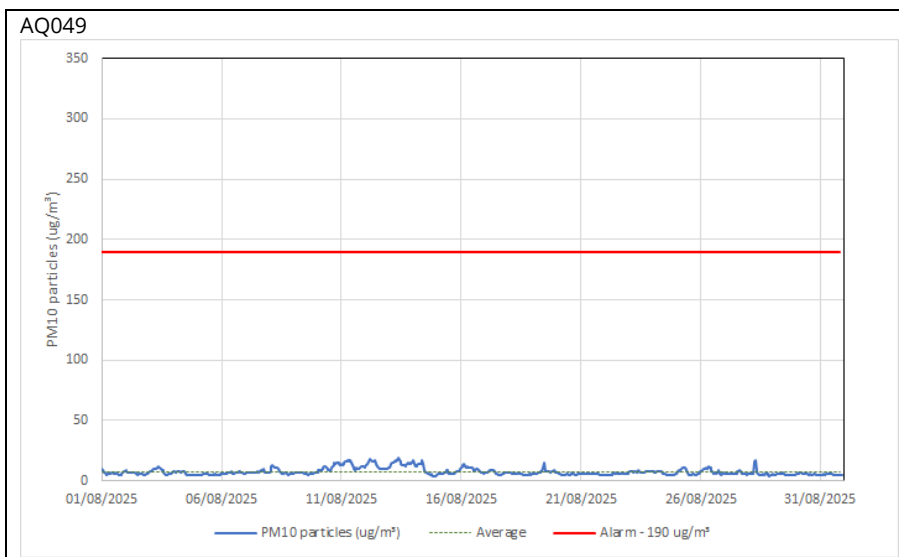
Appendix B – Dust Monitoring Results

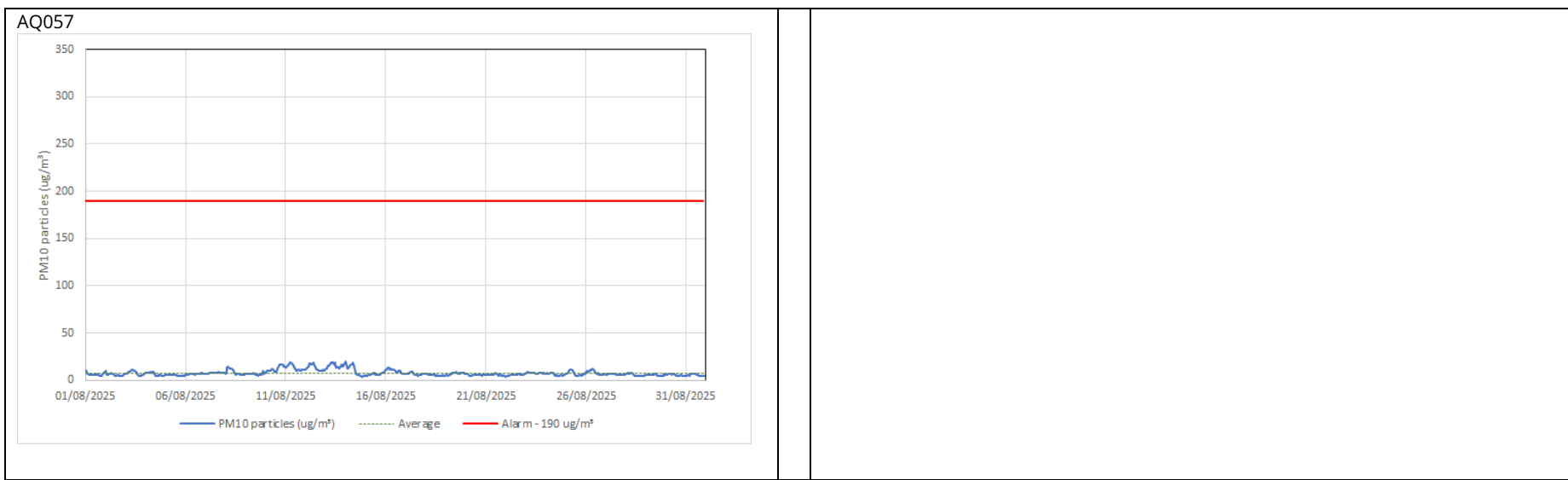
Table 2: Dust Monitoring Locations and Results

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 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 (%)
AQ033	507181, 187299	Breakspear Road South	M	Yes	N	8.8	4.3	21.4	0	66.7
AQ034	506608, 187592	Copthall Cutting	L	Yes	N	7.6	4.0	20.6	0	100.0
AQ040	508329, 186877	West Ruislip Golf Course	M	Yes	N	7.7	4.0	20.0	0	97.6
AQ041	507942, 187028	West Ruislip Portal	M	Yes	N	8.1	4.3	20.3	0	98.0
AQ049	506531, 187865	Copthall North, Ancient Woodland	M	Yes	N	7.6	4.0	19.4	0	100.0
AQ050	506399, 187166	Copthall South Compound	M	Yes	N	7.5	4.3	18.5	0	99.9
AQ052	506433, 186725	Southern Sustainable Placement Area	M	Yes	N	7.7	4.0	19.2	0	100.0
AQ056	506494, 186432	Southern Sustainable Placement Area	M	Yes	N	7.7	4.0	19.9	0	100.0
AQ057	506739, 186359	Southern Sustainable Placement Area	M	Yes	N	7.8	4.0	19.6	0	100.0

Figure 5: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors







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
HS2-000020BNT	Lamp post on Pembroke Road	509678, 187214	32	25	33	19	12	26	11						22
HS2-000020BNU	Cowley Road signpost at junction with Hillingdon Road	505492, 183926	44	34	Tube Missing	36	28	32	30						34
HS2-000020BNV	High Street signpost at junction with Pembroke Road	509439, 187117	47	33	42	35	Tube Missing	26	28						35
HS2-000020BNW	Signpost on A4020 Uxbridge Road at junction with Long Lane	507365, 182687	38	43	Tube Missing	45	25	28	25						34
HS2-000020BPK	Lamp post in crescent off Swakeleys Road	506542, 186037	34	32	36	25	22	21	23						27

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
HS2-000020BPL	Warren Road signpost on corner of Swakeleys Road and Warren Road	506240, 185660	43	20	12	26	22	24	25						24
HS2-000020BPN	Lamp post on B467	506767, 186224	41	38	Tube Missing	32	19	23	25						30
HS2-000020BQH	Lamp post on High Road Ickenham	508451, 186879	37	36	42	37	4	28	22						29
HS2-000020BQN	Lamp post on Park Road	506176, 185444	50	37	63	39	26	25	26						38
HS2-000020BQP	Sign post on Long Lane	507614, 184663	44	42	Tube Missing	39	24	27	24						33
HS2-000020BP8	Triplicate site at South Ruislip roadside automatic monitoring station	510858, 184916	34	30	45	30	21	21	20						29