

Air Quality and Dust Monitoring Monthly Report – August 2025

North Warwickshire Borough Council



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 North Warwickshire Borough Council (NWBC) during August 2025.
- 1.1.2 Figures 1 and Figure 2 in Appendix A present the current worksites together with the dust monitoring locations.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly 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 Figure 1 and Figure 2, include:

Sublot 6BS

Gilson Embankment

- Earthworks movement.
- General site maintenance.

Attleboro Lane Overbridge

- Works now complete in this area.

Sublot 7

Faraday Avenue Embankment and Underbridge

1) Segment Installation Cycle

- Self-Propelled Modular Transporter (SPMT) Arrival (Segment Delivery), Segment Lifting, Gluing & Installation, Twist, Plumb and Tension (TPT) Tensioning.
- Swivel Crane Movement.

2) Platform & Formwork Operations

- Prestressing (PRST) / ITP Platform Installation & Removal, Formwork Installation & Removal and Stitch Grouting.
- Bearings & Support Shim Grouting.

3) Cable & Mast Activities

- Stay Cable Tensioning / De-tensioning (Front, Rear, IBP, ITP, External) and Mast Movement.
- Threading & Tensioning Operations (Including Testing).

4) Finalization & Adjustments

- Segment Docking, Hydraulic Jacking, Yoke Beam Connection and Segment Adjustment Works.

Marston Box

- No works occurred in August 2025.

Sublot 6NC

Marsh Lane Embankment

- Dig and Replace.
- Embankment Construction.
- Compound Operation & Haul Road Maintenance.
- Water Orton Culvert Installation (finish Dec 2025).
- Attleboro Culvert Installation (finish March 2026).
- Demolition (core hours only).
- Stockpile Operation.
- Site Generators.
- Operation of Borrow Pit (deposit/removal).
- Haul Road Operation (finish Oct 2025).
- Traffic Management.

Sublot 5N

Chattle Hill Box Structure

- Sheet pile installation and removal.
- Cofferdam excavation and pouring of blinding.
- Steel fixation and concrete pouring of pilecaps.
- General site maintenance.

1.1.5 Seven (7) 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 1, 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.

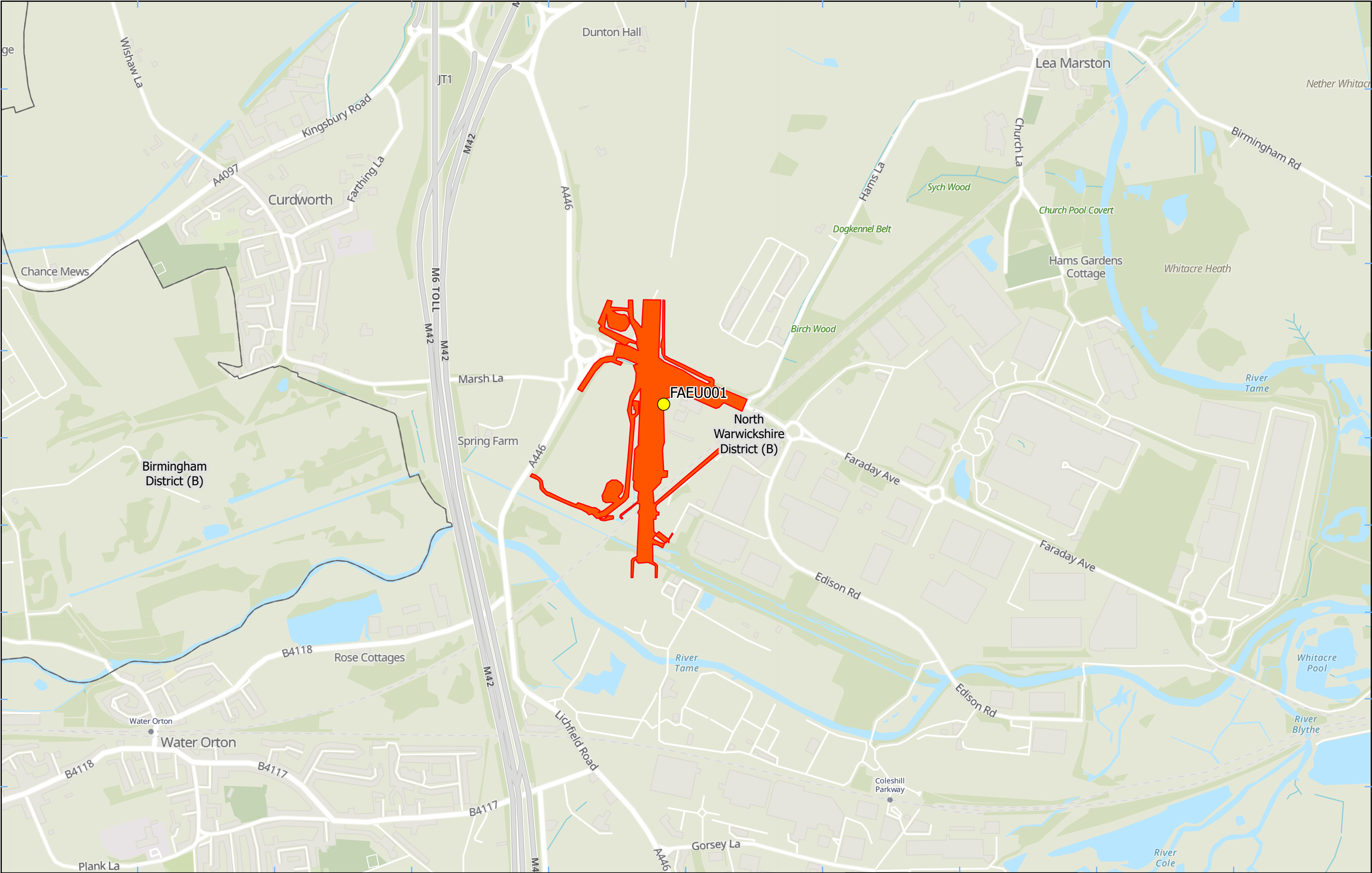
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.
- 1.1.8 No (0) dust trigger alerts were recorded during the monitoring period (August 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Monitor AFE001 - A battery refresh and fault investigation site visit were done on 4th September 2025. Another site visit is to be scheduled to resolve the technical issues.
 - Monitor FAEU001 - A monitor swap out was done on 5th August 2025. After this site visit, the monitor issue was resolved.
- 1.1.10 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 August 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46633-C	N/A	Bad odours smelt in the area.	Still under investigation at the time of running report.
HS2-25-124226-E-C	N/A	Strong unpleasant smell in the area.	Still under investigation at the time of running report.

Appendix A – Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within NWBC



Legend

- Dust Monitor
- Worksite
- District Borough Unitary Boundaries

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Map Number

Map Name

**Worksite and Monitoring Locations
In NWBC (Sheet 1)**

North Warwickshire Borough

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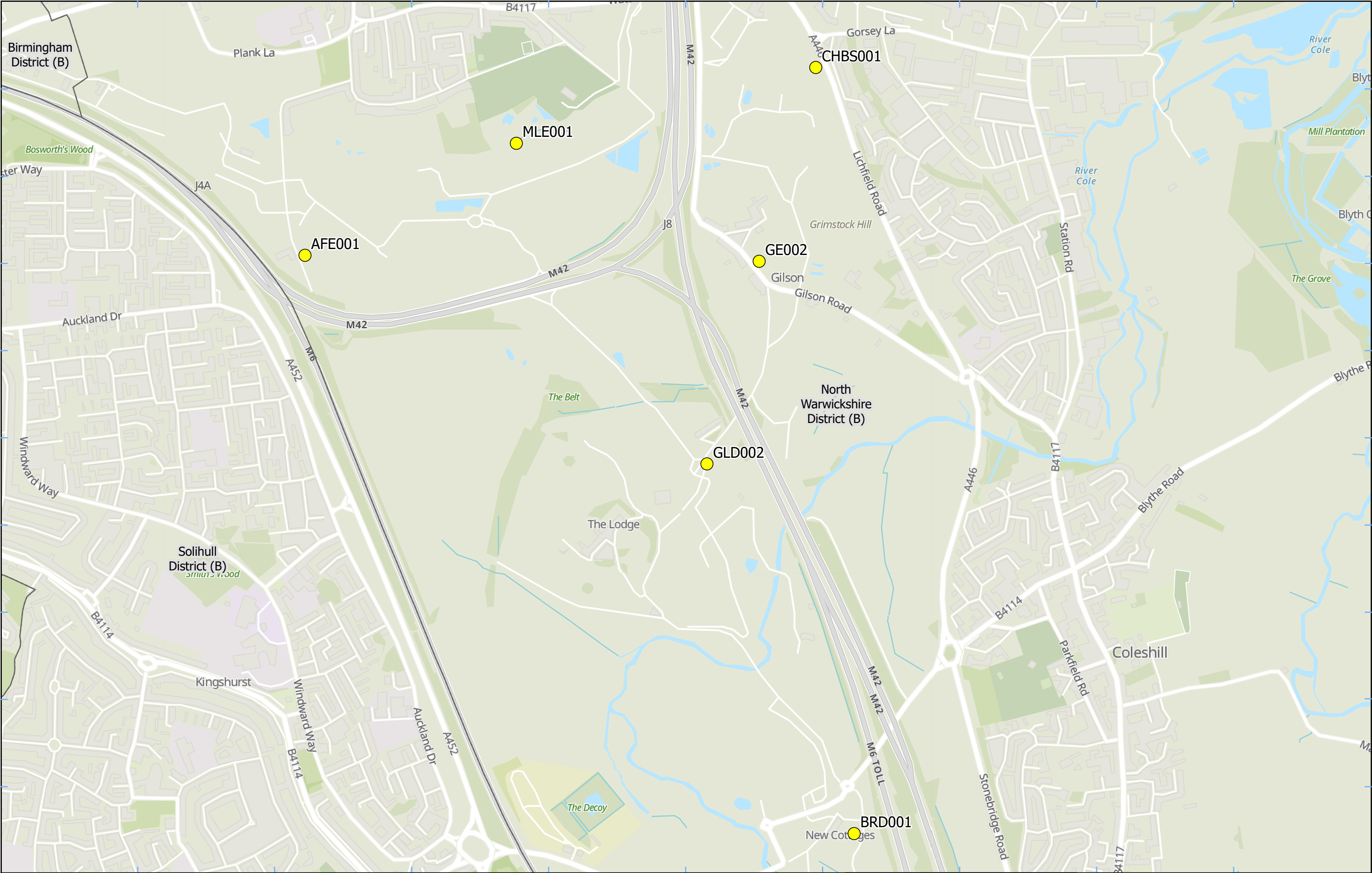
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Metres

Date: 19/12/24



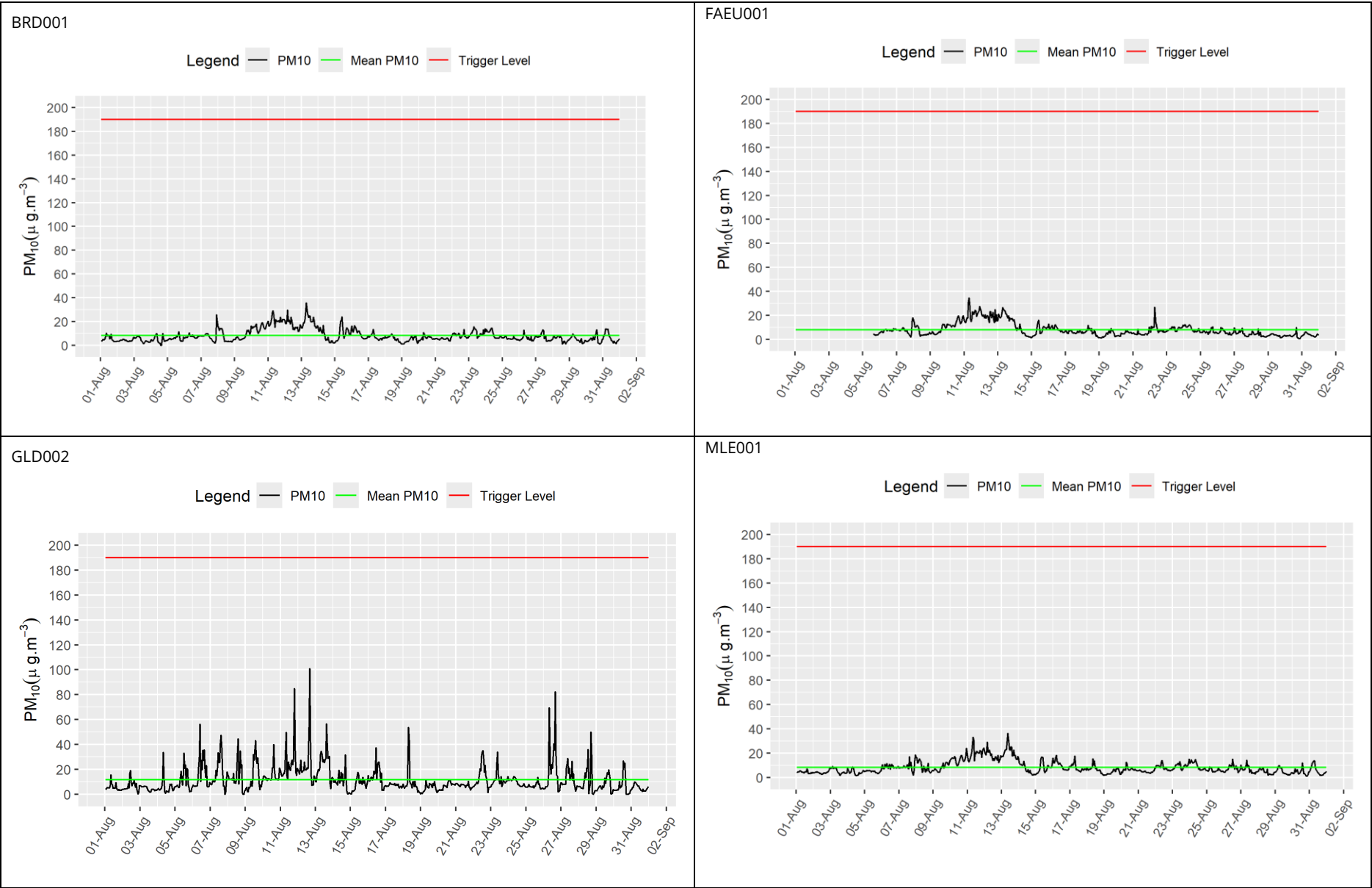
Legend Dust Monitor District Borough Unitary Boundaries	Map Number	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Scale at A3: 1:11,000 Metres Date: 10/07/25
	Map Name	
	Doc Number:	
Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025 Contains data from OS Zoomstack	Monitoring Locations In NWBC (Sheet 2)	
	North Warwickshire Borough	

Appendix B – Dust Monitoring Results

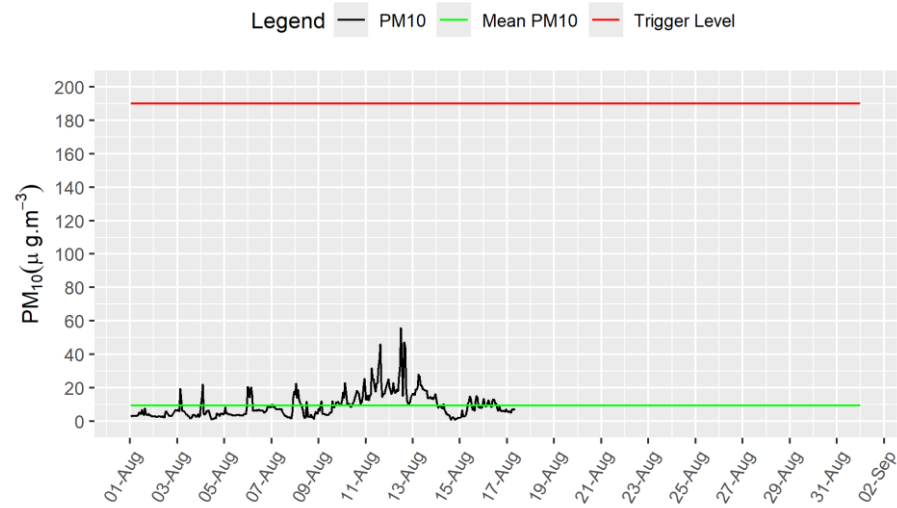
Table 1: Dust Monitoring Locations and Results

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 (%)
BRD001	419279, 288315	New Cottage, Birmingham Road, Coleshill	L	Yes	No	8.4	0.1	36.0	0	100.0
FAEU001	419166, 292265	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	L	Yes	No	8.1	0.6	34.6	0	85.2
GLD002	418811, 289490	Gilson Drive	L	Yes	Yes	11.7	0.1	100.9	0	100.0
MLE001	418205, 290509	Vicarage Lane	L	Yes	No	8.4	1.3	36.4	0	100.0
AFE001	417533, 290153	Attleboro Farm, Attleboro Lane	L	Yes	No	9.5	1.0	55.7	0	52.7
GE002	418977, 290134	Lovegrove Cottage, Gilson Road	M	Yes	No	9.1	1.2	59.3	0	100.0
CHBS001	419157, 290750	6 Gorsey Way, Lichfield Road	L	Yes	No	7.3	0.3	28.1	0	100.0

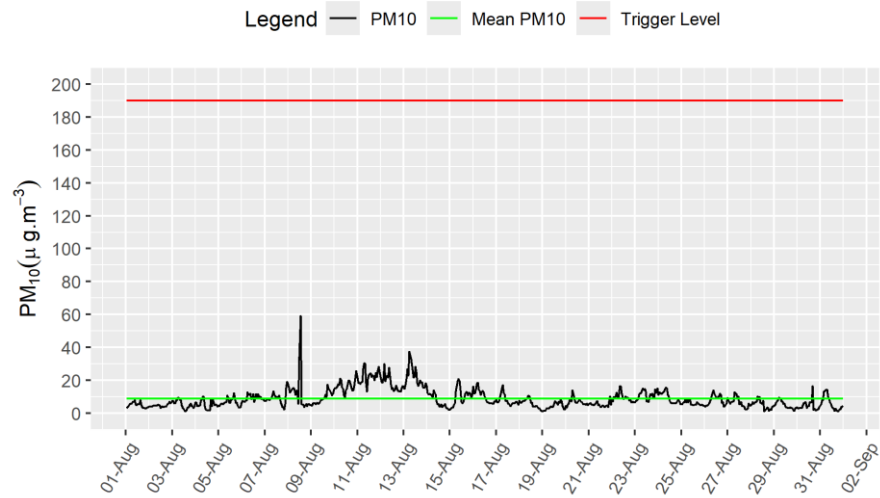
Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



AFE001



GE002



CHBS001

