

Air Quality and Dust Monitoring Monthly Report – March 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 March 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 (Road realignment and site maintenance).
- Pile cap and wall construction (Steel installation, formwork installation and removal, and concrete pouring).

Attleboro Lane Overbridge

- Attleboro Flyover - Capping Beam, Wall and Deck Slab construction (Steel installation, formwork installation and removal, and concrete pouring), excavation and removal of guide walls, wire sawing of Secant piles, and piling works.
- Attleboro Flyover Retaining Walls and Attleboro Farm Embankment Walls - Drainage, and Base Slab and Wall construction (Steel installation, formwork installation and removal, and concrete pouring).
- Water Orton Cutting (Base Slab and Wall construction – steel installation, formwork installation and removal, and concrete pouring).
- Highway works - Tie-in works, and surfacing).

Sublot 7

Faraday Avenue Embankment and Underbridge

- Faraday Avenue North – No works occurred in March 2025.
- Faraday Avenue South – Concrete finishing works on Curdworth Box.

Marston Box

- Removing remaining plywood from bottom recess on the mass concrete.
- Breaking out concrete.
- Saw cutting of robust kerb.
- Remedial works on mass concrete areas.
- Removing steel plates from plinths.
- Saw cut for RK joints.

Sublot 6NC

- Dig and replace works.

Sublot 5N

Chattle Hill Box Structure

- Earthworks – Dig and replace, Rigid inclusions, Technical backfill, and High-Speed Rail (HSR) Embankment works.
- Box Structure Construction – Steel fixation, installation and striking formwork, and concrete pours.

- 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 (March 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Monitor GLD001 – A monitor swap out and battery refresh was done on 18th March 2025, and a field calibration was done on 9th April 2025. Another field calibration is scheduled for 23rd April 2025.

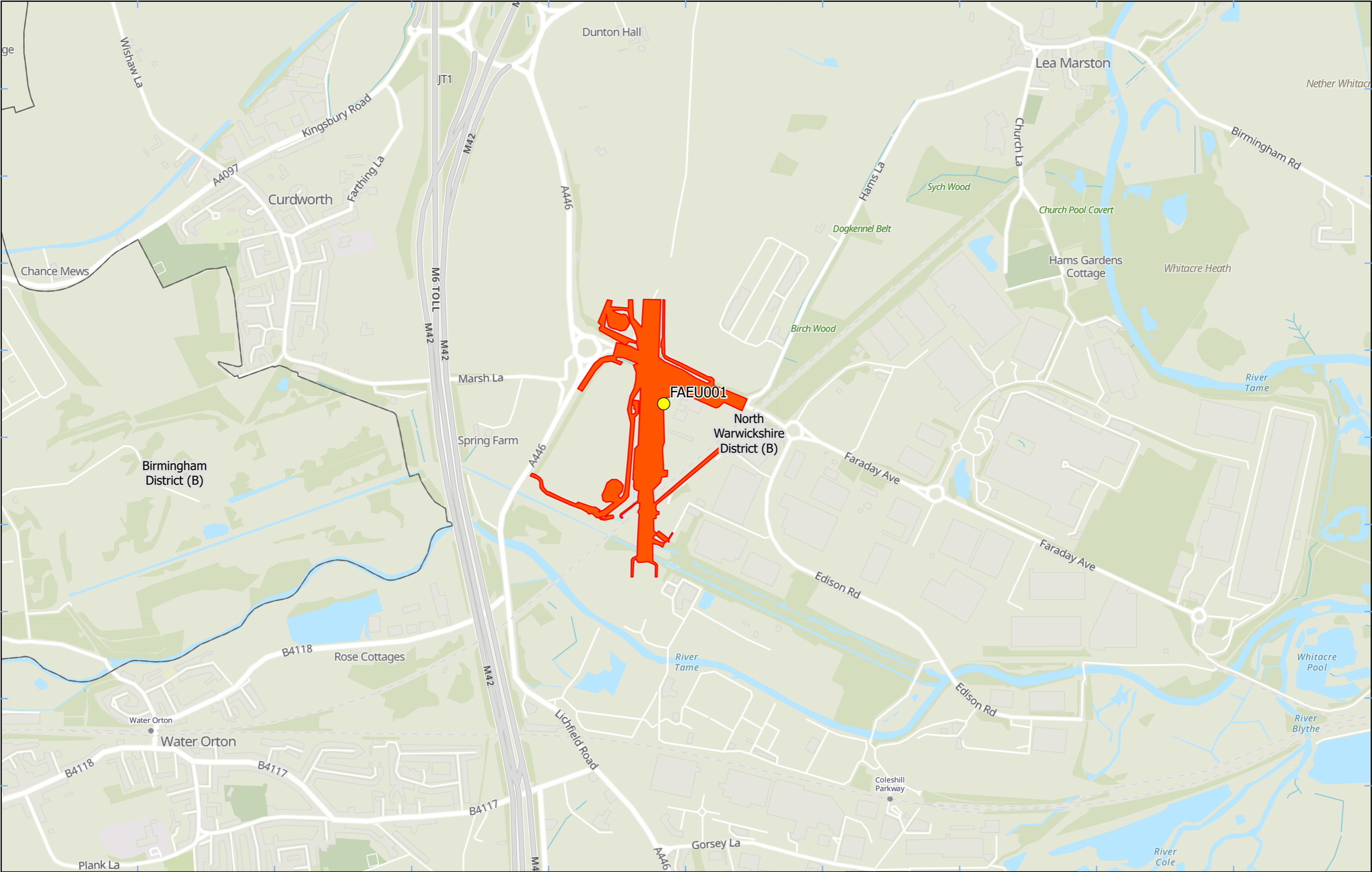
1.1.10 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during March 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46158-C	N/A	Noise and dust in the area.	All works are permitted with local authority, noise & dust monitors have been checked and no exceedance have been breached. Resident has been updated and provided with details of upcoming works.
HS2-25-46190-C	N/A	Dust on personnel property.	All mitigation measures are in place to reduce dust in the area, including water cannons. Restrict earthmoving tasks during windy conditions. Monitors checked and are below permitted thresholds. Resident has been updated and an offer to provide car covers has been proposed.
HS2-25-46192-C	N/A	Dust on property.	All mitigation measures are in place to reduce dust in the area, including water cannons. Restricted earthmoving tasks during windy conditions. Monitors checked and are below permitted thresholds. Resident has been updated and an offer to provide car covers has been proposed.

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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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	419262, 288328	New Cottage, Birmingham Road, Coleshill	L	Yes	No	23.1	2.2	97.1	0.0	99.7
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	L	Yes	No	25.6	4.3	108.8	0.0	99.7
GLD001	418807, 289570	Gilson Drive	L	Yes	No	17.5	0.4	54.2	0	43.4
MLE001	418205, 290509	Vicarage Lane	L	Yes	No	9.6	0.2	45.8	0.0	99.7
AFE001	417455, 290269	Attleboro Farm, Attleboro Lane	L	Yes	No	19.2	1.3	82.9	0.0	96.5
GE001	418886, 290192	Lovegrove Cottage, Gilson Road	M	Yes	No	26.1	2.2	116.7	0.0	99.7
CHBS001	419155, 290755	6 Gorsey Way, Lichfield Road	L	Yes	No	19.8	1.2	90.3	0.0	99.7

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

