

Air Quality and Dust Monitoring Monthly Report – November 2024

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 November 2024.
- 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

- Gilson Road Realignment works.
- Stockpiling.
- Temporary road installation.
- Drainage works.
- Plant used: 3x excavators, 2x dozers, 1x 19 tonne roller, 3x Articulated Dump Trucks (ADTs).

Attleboro Lane Overbridge

- Diversion of electric, water, telecoms & sewer mains and services.
- Highway works.
- Plant used: 4x excavators, 2x ADTs, 1x roller, 2x 9 tonne rollers, 1x Vac-ex.

Sublot 7

Faraday Avenue Embankment and Underbridge

- Logistic activities.
- Segment delivery.
- Assembly of blisters and platforms.
- Segment moving with use of a self-propelled modular transporter (SPMT).
- Excavation of a small 11 x 6 metre hole.

Sublot 6NC

- No works occurred in November 2024.

Sublot 5N

Chattle Hill Box Structure

- UTX: Precast Parapets Installation.
- UTX: Parapet Stitch.
- UTX: Robust Kerbs.
- UTX: East Wingwall Steelfixing.
- Plant used: 1x crawler crane and 2x Mobile Elevating Work Platforms (MEWPs).

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 (November 2024).

1.1.9 Data capture was below 90% for multiple monitors due to:

- Monitor AFE001 - A battery refresh was done on 14th November 2024, and a battery refresh is scheduled for 13th December 2024.
- Monitor CHBS001 - A battery refresh was done on 6th December 2024. After the battery refresh, the power supply issues were resolved.
- Monitor FAEU001 - A battery refresh was done on 5th December 2024. After the battery refresh, the power supply issues were resolved.
- Monitor GE002 - A battery refresh was done on 6th December 2024. After the battery refresh, the power supply issues were resolved.
- Monitor BRD001 - A battery refresh was done on 21st November 2024. After the battery refresh, the issues with the monitor were resolved.
- Monitor GLD001 - Monitor issues, a battery refresh and full dust work up is scheduled for 12th December 2024.

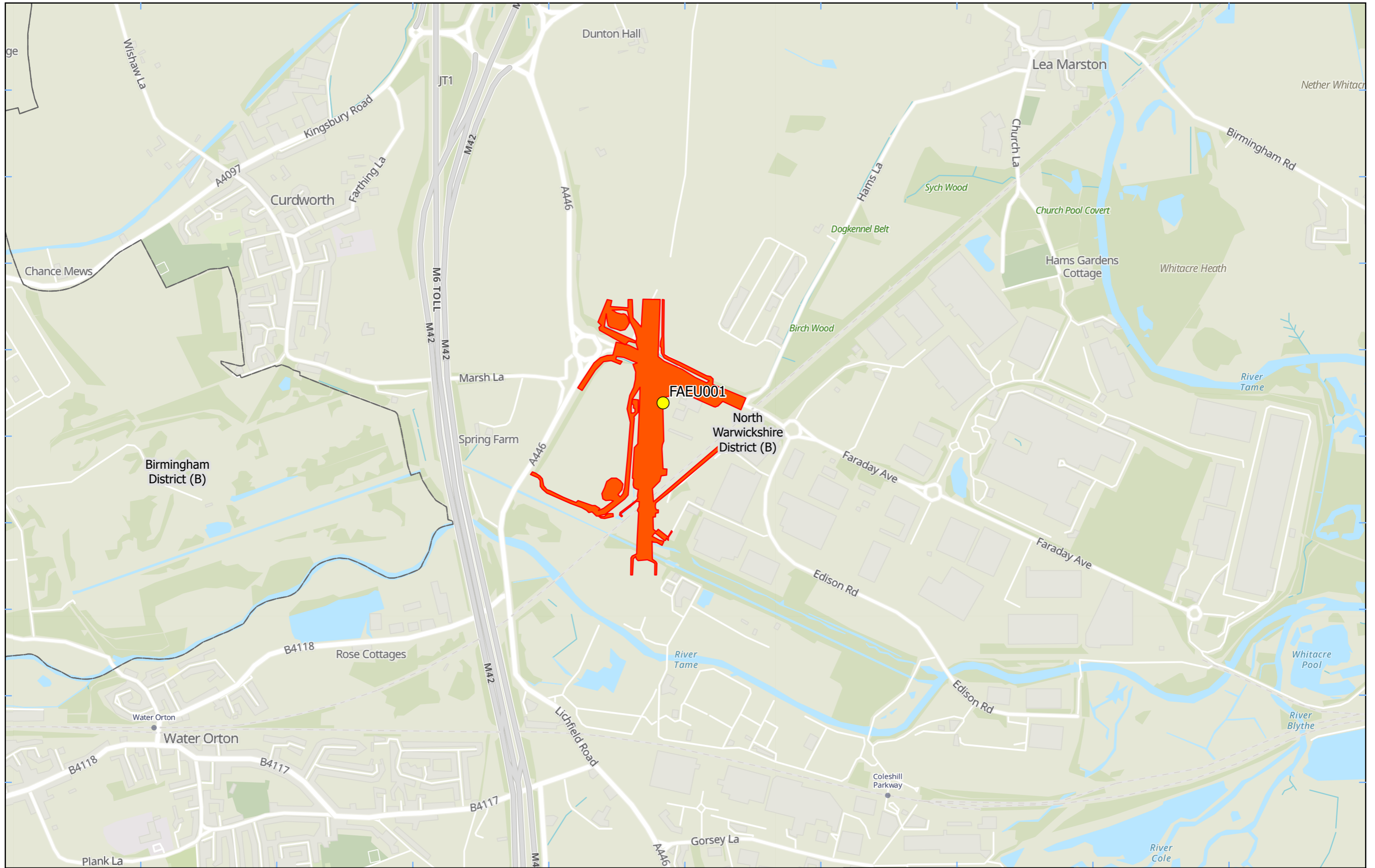
1.1.10 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during November 2024

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-24-45834-C	N/A	Unacceptable smell in the area. (Fishy)	Through investigation took place to identify the odour, no treatment used in works could have caused the smell, there is no connection to HS2 works. The contractor will continue to monitor the situation. Resident has been informed.
HS2-24-45847-C	N/A	Unacceptable smell in the area. (Fishy)	Through investigation took place to identify the odour, no treatment used in works could have caused the smell, there is no connection to HS2 works. The contractor will continue to monitor the situation. Resident has been informed.

Appendix A – Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within NWBC



Legend

- Dust Monitor
- District Borough Unitary Boundaries
- Worksite

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Map Number

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

North Warwickshire Borough

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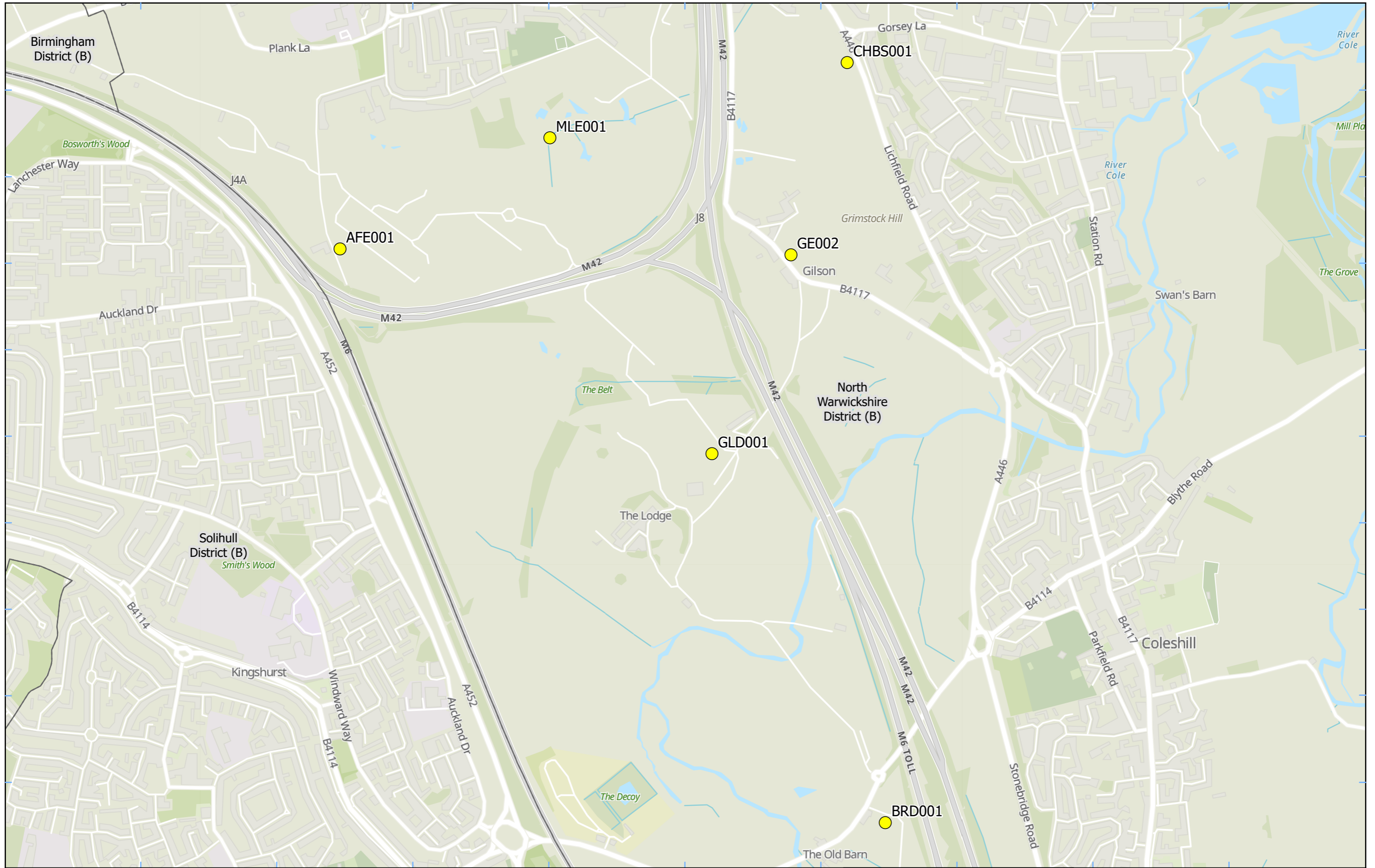
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Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name
**Monitoring Locations
In NWBC (Sheet 2)**

North Warwickshire Borough

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Appendix B – Dust Monitoring Results

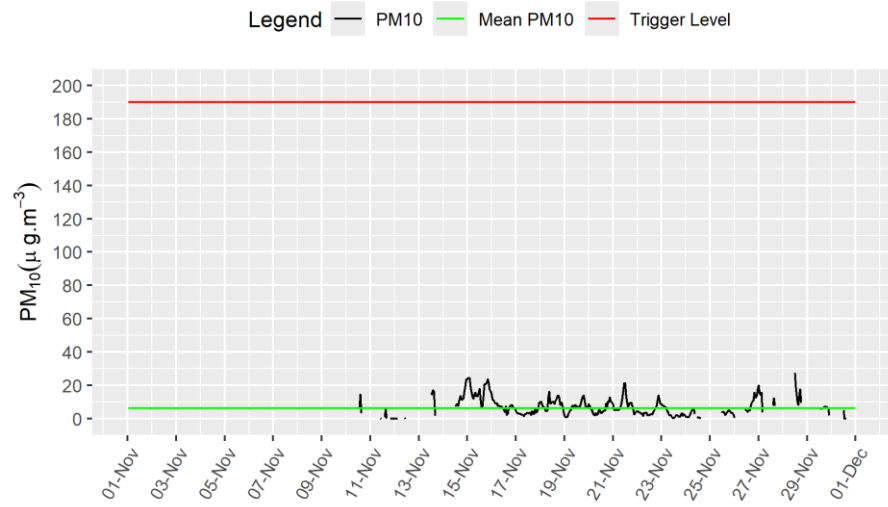
Table 1: Dust Monitoring Locations and Results

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	419279, 288315	New Cottage, Birmingham Road, Coleshill	L	Yes	No	9.7	0.1	46.6	0	81.0
FAEU001	419166, 292265	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	L	Yes	No	3.8	0.1	24.9	0	45.4
GLD001	418724, 289497	Gilson Drive	L	Yes	No	5.9	0.1	52.2	0	41.9
MLE001	418205, 290509	Vicarage Lane	L	Yes	No	9.2	0.1	37.6	0	96.1
AFE001	417533, 290153	Attleboro Farm, Attleboro Lane	L	Yes	No	6.4	0.1	27.5	0	48.8
GE002	418977, 290134	Lovegrove Cottage, Gilson Road	M	Yes	No	7.6	0.1	51.9	0	91.0
CHBS001	419157, 290750	6 Gorsey Way, Lichfield Road	L	Yes	No	7.5	0.1	36.7	0	49.6

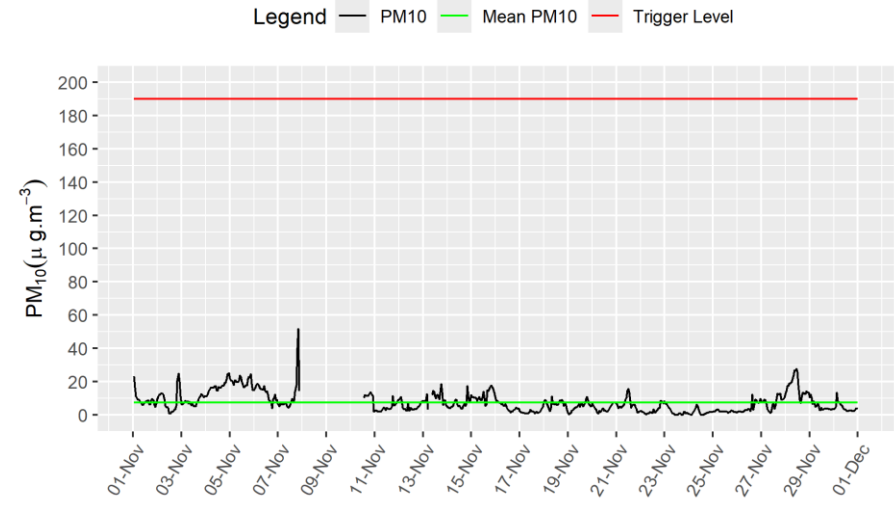
Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



AFE001



GE001



CHBS001

