

## Air Quality and Dust Monitoring Monthly Report – January 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 January 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](http://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.
- Drainage works.
- Plant used: 3x excavator, 2x dozer, 1x 19 tonne roller, 3x articulated dump trucks (ADTs).

### Attleboro Lane Overbridge

- Excavating on existing gas main to prepare diversions.
- Highway works.
- Plant used: vac-ex, 5 tonne excavator, 9 tonne dumper, 2x 14 tonne excavators, 1x 30 tonne ADT, 1x 19 tonne roller.

## **Sublot 7**

### Faraday Avenue Embankment and Underbridge

- Logistics activities.
- Assembling of equipment.
- Plant used: 1x self-propelled modular transporter (SPMT), 1x telehandler, occasional delivery lorries.

### Marston Box

- Fibre-reinforced concrete (FRC) and formwork stripping.
- Installation of parapets and concrete pours.
- Installation of robust kerbs.
- Plant used: 1x concrete pump, 1x concrete wagon, 1x scissor lift, 1x mobile elevating work platform (MEWP).

#### **Sublot 6NC**

- No works occurred here during January 2025.

#### **Sublot 5N**

##### Chattle Hill Box Structure

- Installing shutters undertrack crossing (UTX) south-east wing wall.
- Steel fixing UTX South-West wing wall.
- Excavating UTX West wing wall.
- Plant used: 2x MEWPs, 3x scissor lifts, 2x crane, 1x 25 tonne excavator.

- 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 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 No (0) dust trigger alerts were recorded during the monitoring period (January 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Monitor AFE001 – A field calibration and battery refresh were done on 24th January 2025. After this site visit, the power supply issues were resolved.
  - Monitor BRD001 – A battery refresh and monitor swap out were done on 10th January 2025, and a field calibration was done on 22nd January 2025. After these site visits, the power supply issues were resolved.
  - Monitor CHBS001 – A battery refresh and field calibration were done on 5th February 2025.

- Monitor FAEU001 – A battery refresh and field calibration were done on 23rd January 2025. After this site visit, the power supply issues were resolved.
- Monitor GE002 – A battery refresh, cable replacement and field calibration were all done on 28th January 2025. After this site visit, the power supply issues were resolved.
- Monitor GLD001 – A monitor swap out, field calibration and battery refresh were all done on 22nd January 2025. A battery refresh is scheduled for 13th February 2025.

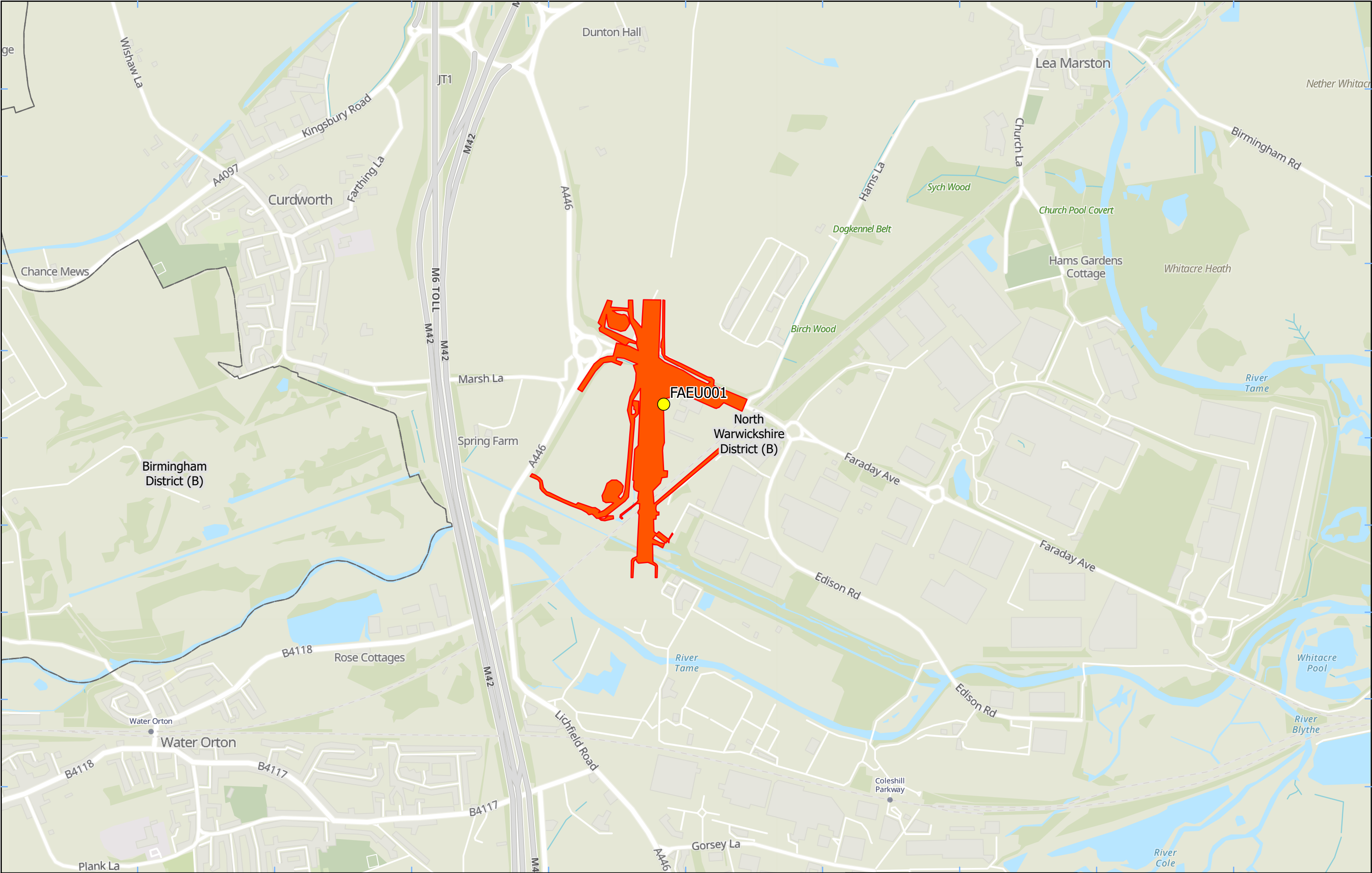
1.1.10 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during January 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46056-C	N/A	Strong fish smell in the area.	Still under investigation at the time of report.
HS2-25-46057-C	N/A	Strong fish smell in the area.	Still under investigation at the time of report.
HS2-25-46058-C	N/A	Strong fish smell in the area.	Still under investigation at the time of 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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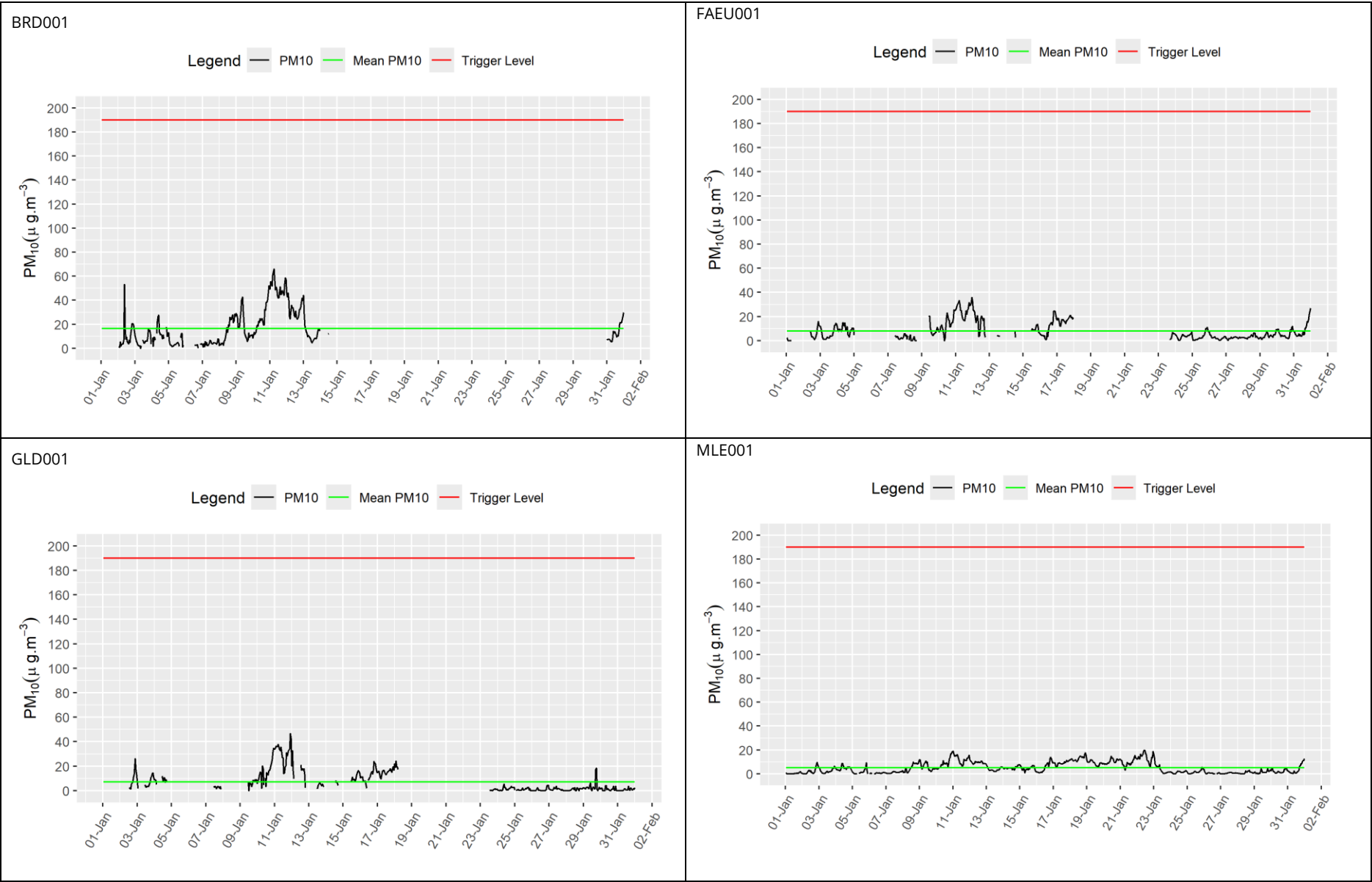


# Appendix B – Dust Monitoring Results

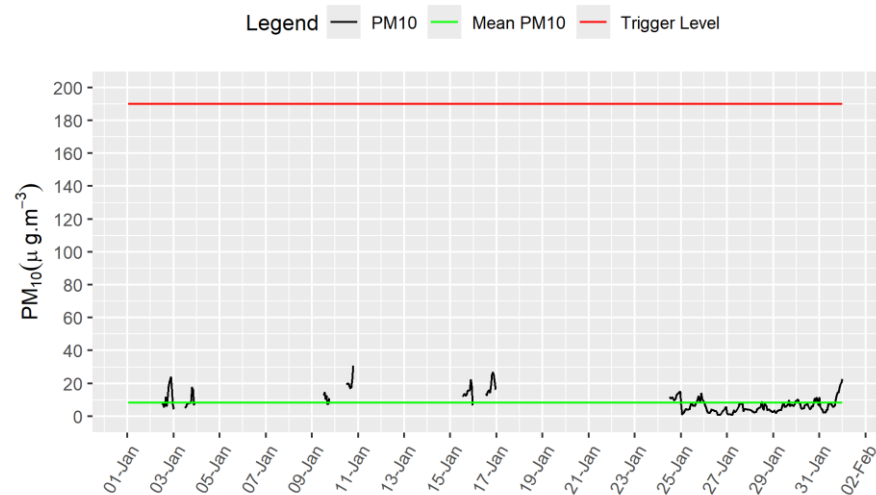
Table 1: Dust Monitoring Locations and Results

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 <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 (%)
BRD001	419279, 288315	New Cottage, Birmingham Road, Coleshill	L	Yes	No	16.6	0.1	66.1	0	40.3
FAEU001	419166, 292265	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	L	Yes	No	8.0	0.1	35.8	0	59.4
GLD001	418724, 289497	Gilson Drive	L	Yes	No	7.1	0.1	46.8	0	54.2
MLE001	418205, 290509	Vicarage Lane	L	Yes	Yes	5.1	0.1	20.0	0	94.1
AFE001	417533, 290153	Attleboro Farm, Attleboro Lane	L	Yes	No	8.2	0.3	30.6	0	32.7
GE002	418977, 290134	Lovegrove Cottage, Gilson Road	M	Yes	No	11.4	2.3	33.2	0	11.2
CHBS001	419157, 290750	6 Gorsey Way, Lichfield Road	L	Yes	No	11.9	0.3	50.7	0	52.6

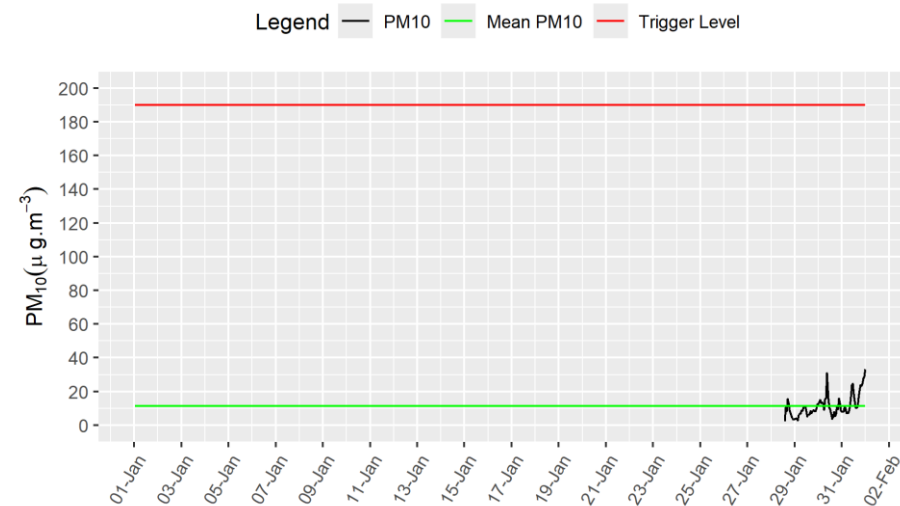
Figure 3: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors



AFE001



GE002



CHBS001

