

## Air Quality and Dust Monitoring Monthly Report – September 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 September 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](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.
- Gilson retaining wall platform works.
- Temporary road installation.

### Attleboro Lane Overbridge

- Trenching and reinstatement of diverted utilities.
- Drainage.

## **Sublot 7**

### Faraday Avenue Embankment and Underbridge

- Tarmac Putting and Rolling.
- Site area maintenance.
- Concreting the footings.
- 2 Terminal installation.
- Excavation.
- Cable pulling.

### Marston Box

- Timber frame structuring.

- Stripping the shutters.
- Steel bars cutting.
- Lifting and install parapets.

#### **Sublot 6NC**

- No work occurred in this area in September 2024.

#### **Sublot 5N**

##### Chattle Hill Box Structure

- Steel fixing deck.
- Installation of temporary works (TW) for diaphragm construction.

- 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 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 (September 2024).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- The low data capture at monitor AFE001 was caused by power supply issues. A field calibration and battery refresh were done on 4th October 2024. After the field calibration and battery refresh, the power supply issues were resolved.
  - The low data capture at monitor BRD001 was caused by issues with the monitor. The monitor was swapped out for investigation on 5th September 2024, with a field calibration scheduled for 10th October 2024.
  - The low data capture at monitor CHBS001 was caused by an issue with the monitor. A field calibration is scheduled for 8th October 2024.
  - The low data capture at monitor GE001 was caused by the monitor not being set up correctly on LivEnviro after the monitor was relocated on 19th September 2024 to avoid nearby works. The issue was corrected on 25th September 2024.

- The low data capture at monitor GLD001 was caused by an issue with the monitor. A field calibration and full dust work up is scheduled for 10th October 2024.

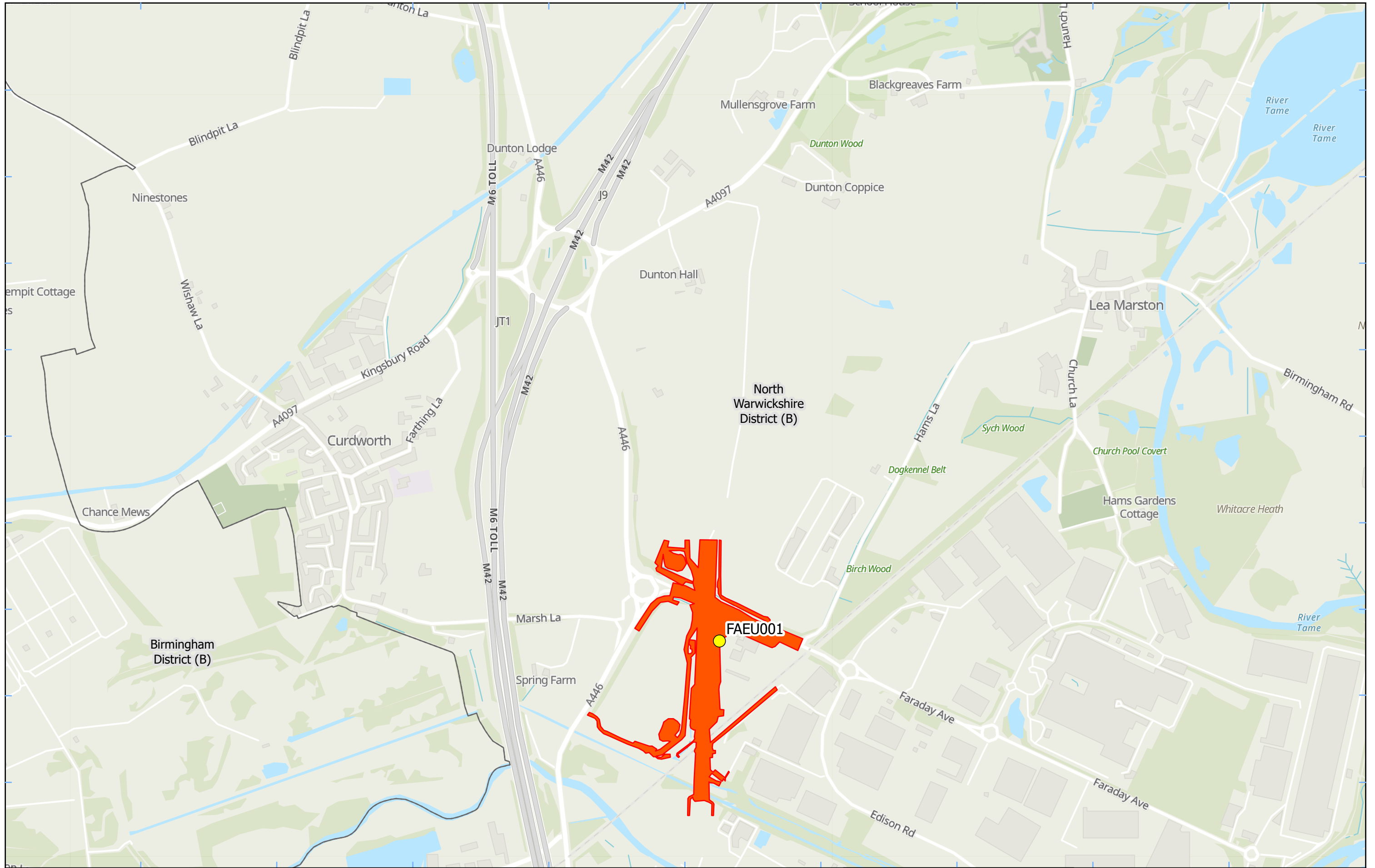
1.1.10 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during September 2024

<b>Complaint Reference No.</b>	<b>Worksite Reference</b>	<b>Description of complaint</b>	<b>Results of investigation</b>
HS2-24-45731-C	N/A	Excessive dirt and dust on personnel property.	No breaches of dust levels recorded in the area, all mitigation measures are in place. 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**

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

**North Warwickshire Borough**

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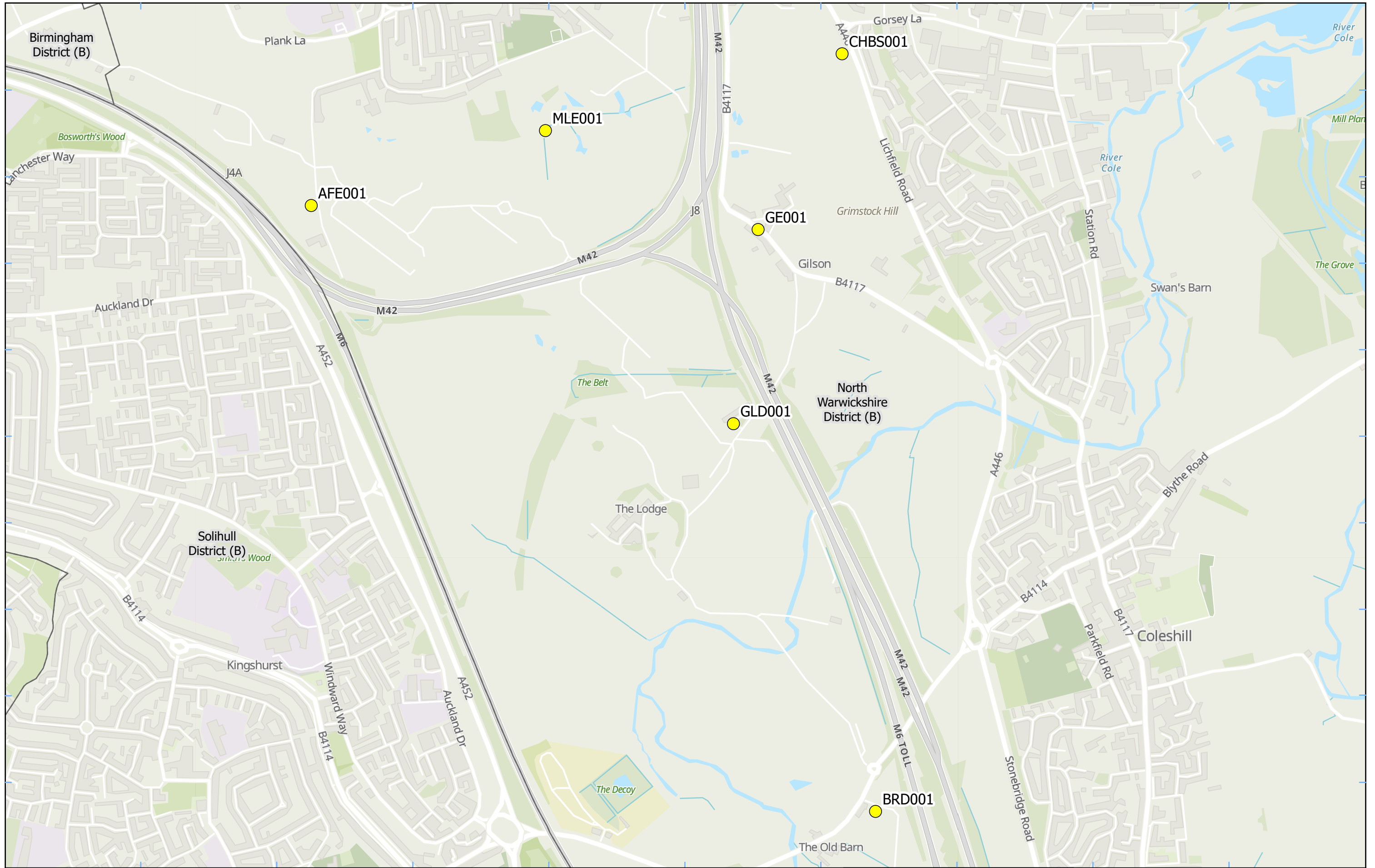
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**Legend**

- 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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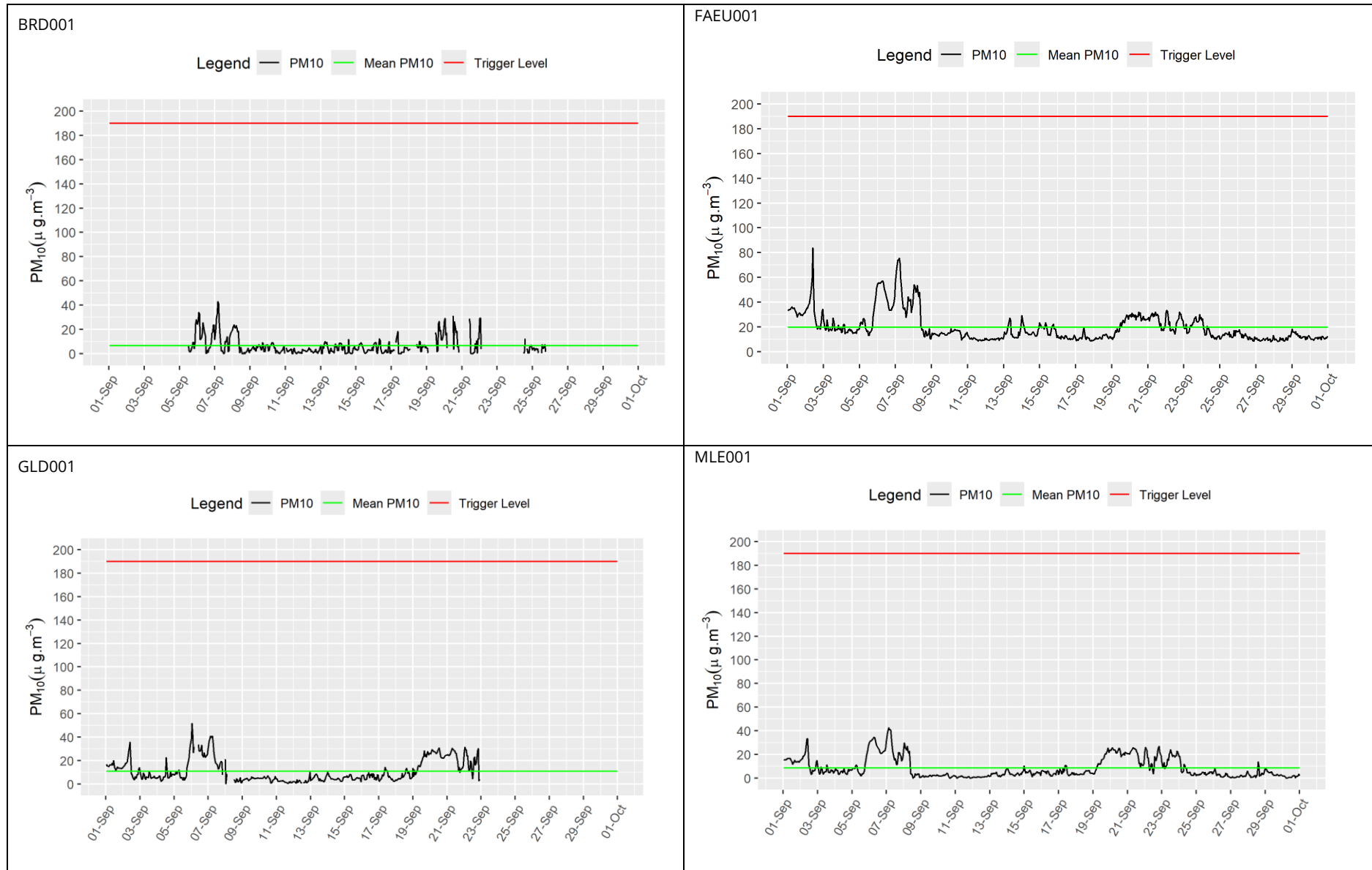


## Appendix B – Dust Monitoring Results

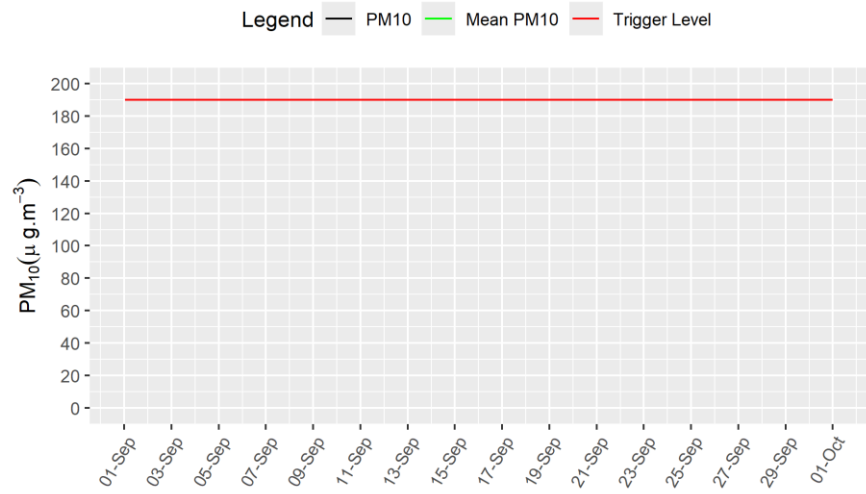
Table 1: Dust Monitoring Locations and Results

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 <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	419262, 288328	New Cottage, Birmingham Road, Coleshill	L	Yes	No	6.7	0.1	42.9	0	56.6
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	L	Yes	No	19.8	8.1	83.8	0	100.0
GLD001	418807, 289570	Gilson Drive	L	Yes	No	11.1	0.4	51.9	0	71.5
MLE001	418205, 290509	Vicarage Lane	L	Yes	No	8.7	0.1	42.6	0	100.0
AFE001	417455, 290269	Attleboro Farm, Attleboro Lane	L	Yes	No	N/A	N/A	N/A	N/A	0.0
GE001	418886, 290192	Lovegrove Cottage, Gilson Road	M	Yes	No	10.4	0.2	85.8	0	87.2
CHBS001	419155, 290755	6 Gorsey Way, Lichfield Road	L	Yes	No	11.9	0.1	176.2	0	85.8

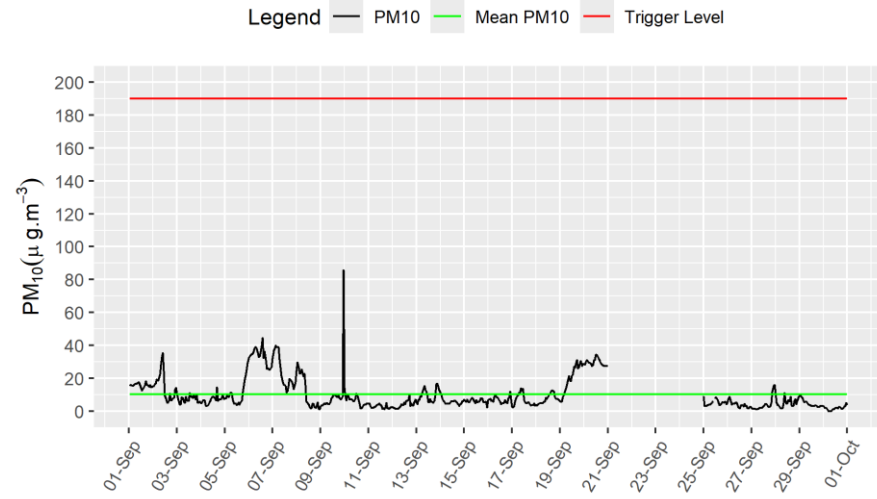
Figure 3: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors



AFE001



GE001



CHBS001

