

Air Quality and Dust Monitoring Monthly Report – July 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 July 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

- Installing concrete piles.
- Gilson Road realignment works.
- Gilson Retaining Wall platform works.
- Temporary road installation.

Attleboro Lane Overbridge

- Excavating and constructing walls and bases.
- Embankment fill & drainage works.

Sublot 7

Faraday Avenue Embankment and Underbridge

- Dug final 3 holes for crash barrier on west side of the central reservation.
- Cable pulling.
- Stockpiling.
- Rolling.
- Trimming type 1 for Tarmac.
- Rolling and compacting ground around welfare cabins.
- General maintenance.
- Stripping topsoil.
- Stockpiling.

Marston Box

- Pouring concrete base (70m³).
- Installing shutters for plinths.
- Blinding concrete deck.
- Installing shutters for the cheek walls and plinths in preparation for concrete pour.
- Building PERI frame.
- Excavate the verge for putting post in.

Marsh Lane Embankment (Sublot 6NC)

- Dig and replace Marsh Lane Embankment with AFORW.

Chattle Hill Box Structure (Sublot 5N)

- Installation of formworks and reinforced concrete.
- Preparation for precast beam delivery.

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 (July 2024).

1.1.9 Data capture was below 90% for multiple monitors:

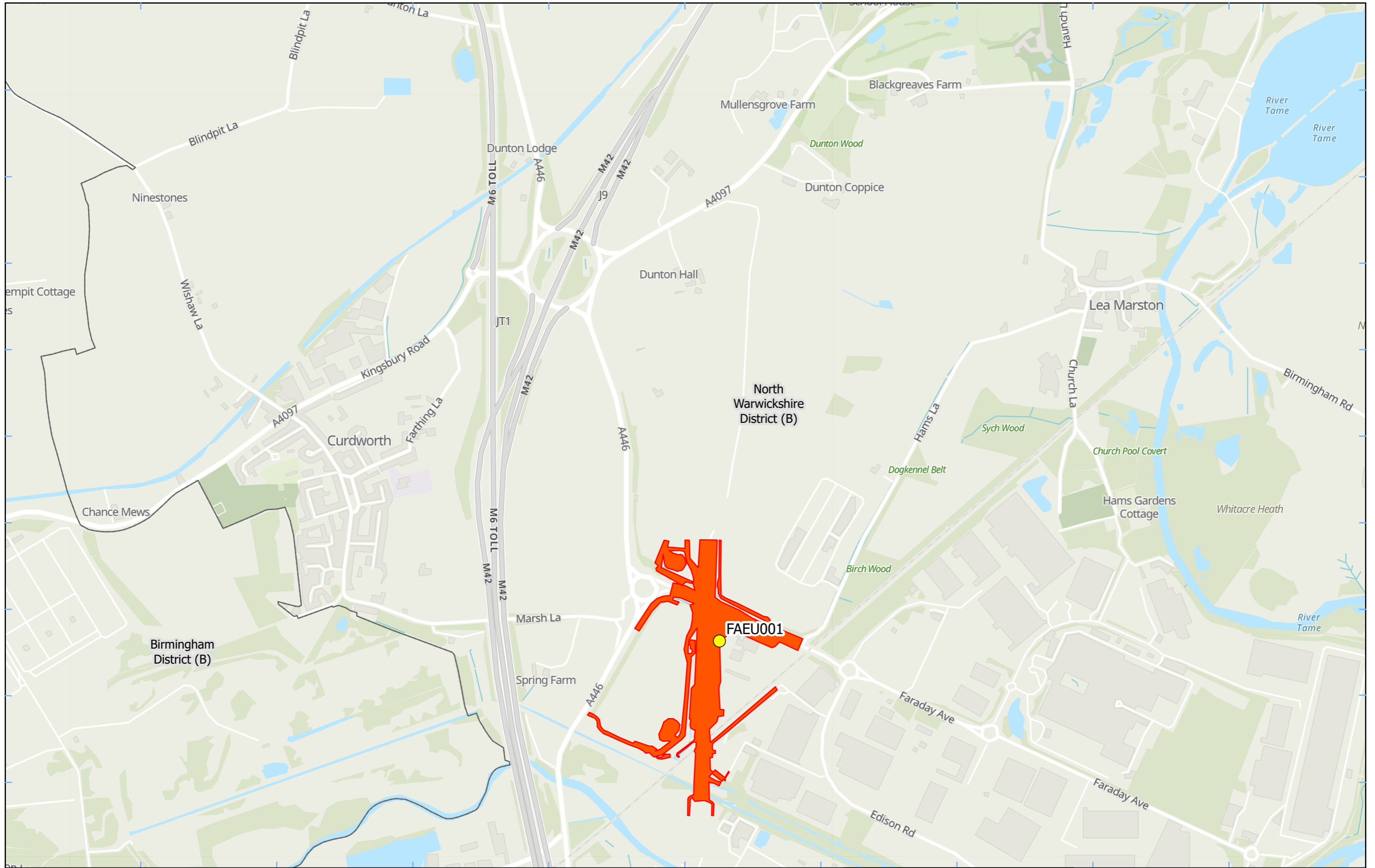
- FAEU001 was caused by power supply issues caused by overgrown vegetation. A battery refresh and full dust work up is scheduled for 1st August 2024. After the battery refresh and full dust work up, the issue with the monitor was resolved.
- The low data capture at monitor GLD001 was caused by an issue with the monitor which was resolved by the field calibration performed on 3rd July 2024, and the monitor being swapped out for investigation on 11th July 2024.

- The zero data capture at monitor BRD001 was caused by an issue with the monitor. A full dust work up was performed on 26th July 2024, and a lab calibration swap out is also scheduled for 28th August 2024.

1.1.10 There were no (0) complaints received during this reporting period (July 2024).

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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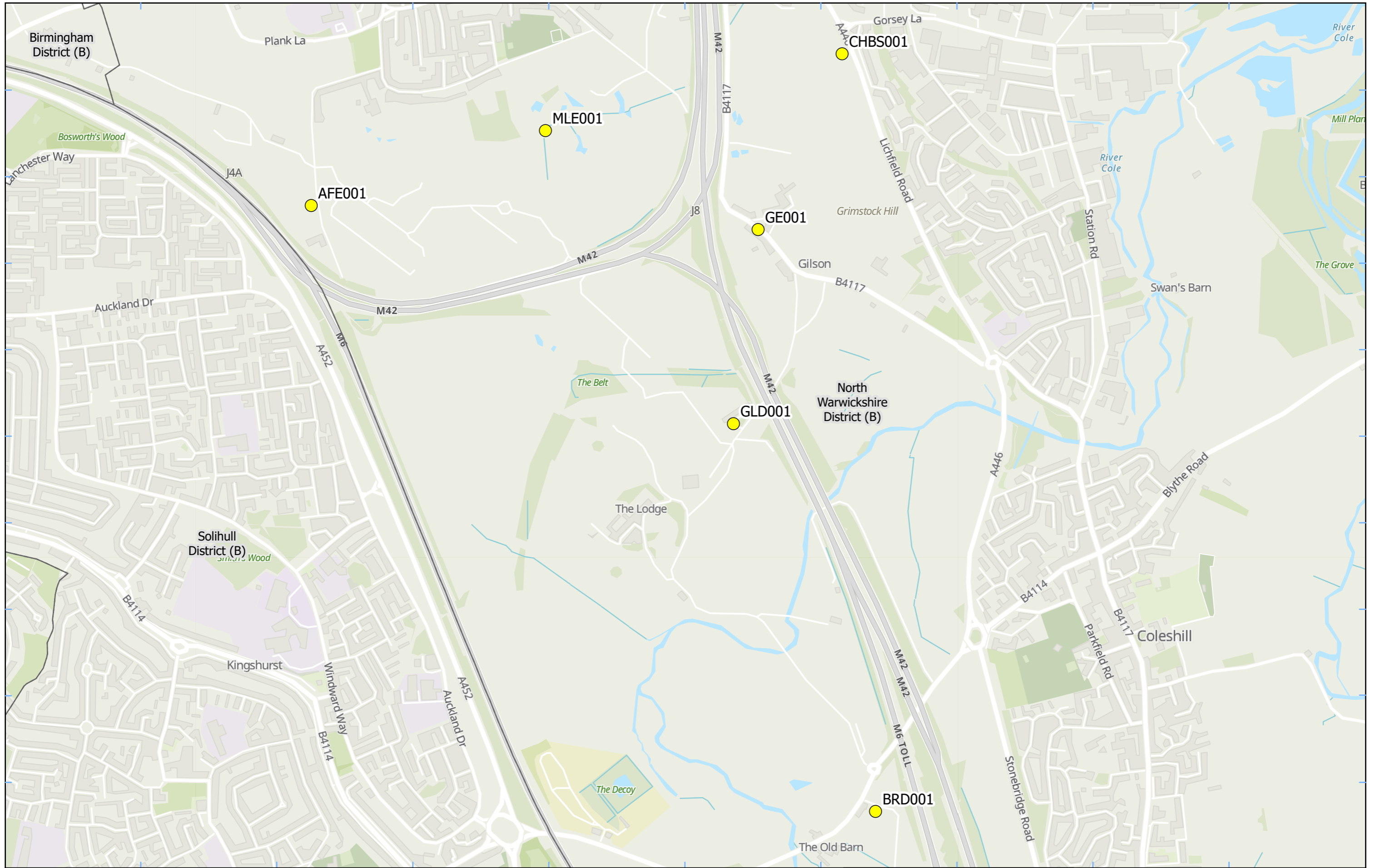
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Metres

Date: 22/12/23



Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

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

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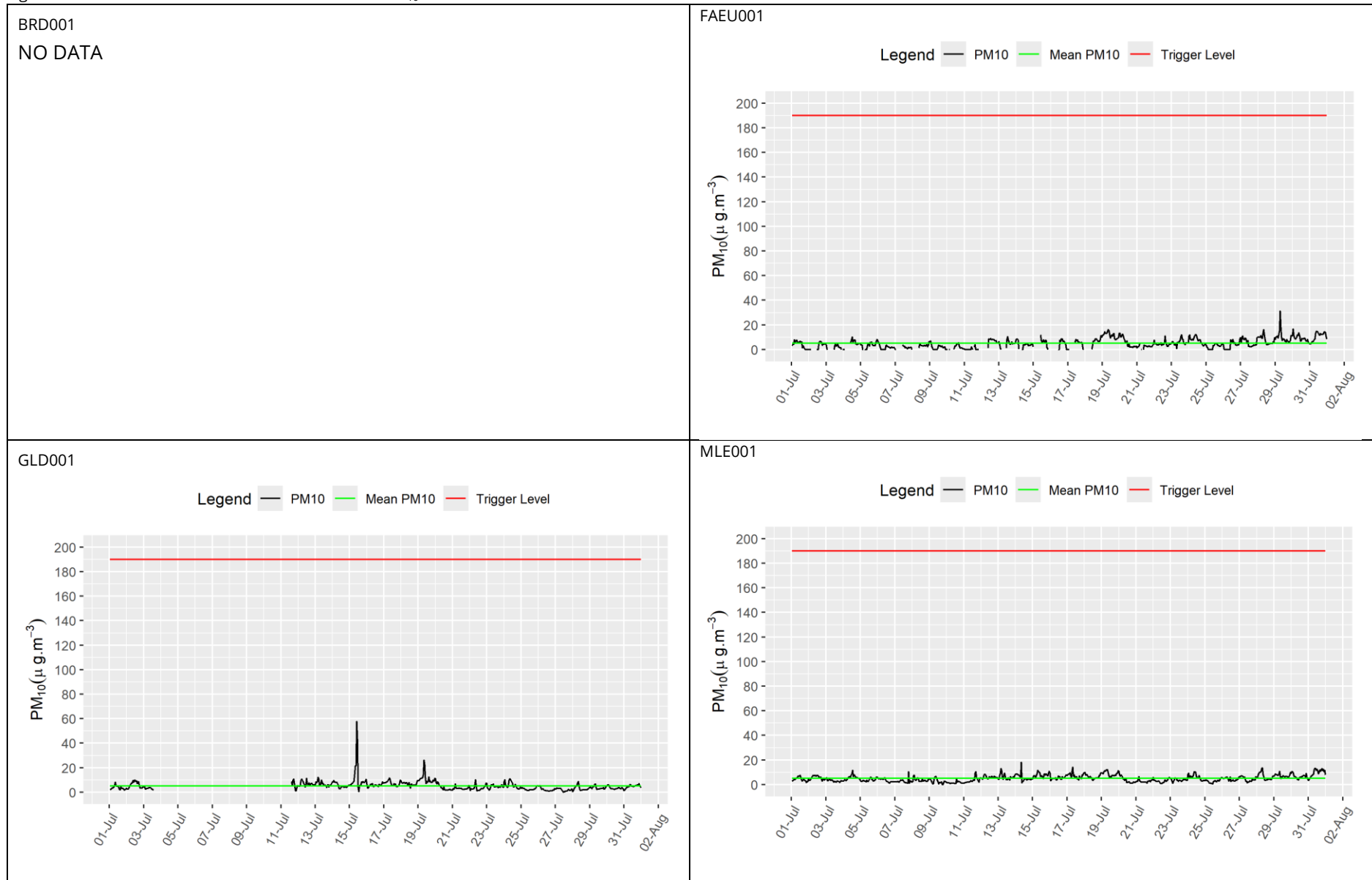
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Appendix B – Dust Monitoring Results

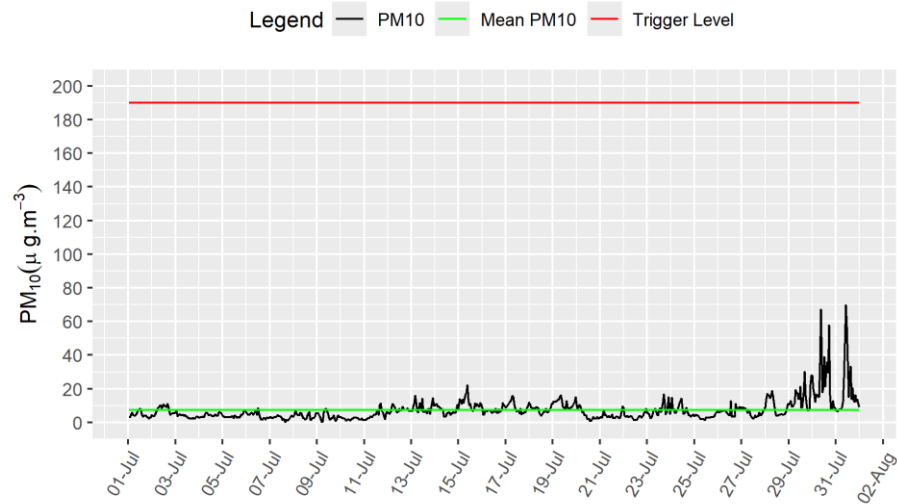
Table 1: Dust Monitoring Locations and Results

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	-	-	-	-	0.0
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	M	Yes	No	5.2	0.1	31.2	0	73.9
GLD001	418807, 289570	Gilson Drive	L	Yes	No	5.2	0.1	57.9	0	74.2
MLE001	418205, 290509	Vicarage Lane	L	Yes	No	5.1	0.1	18.1	0	100.0
AFE001	417455, 290269	Attleboro Farm, Attleboro Lane	L	Yes	No	7.3	0.1	69.8	0	100.0
GE001	418886, 290192	Lovegrove Cottage, Gilson Road	M	Yes	No	7.4	0.9	60.6	0	100.0
CHBS001	419155, 290755	6 Gorsey Way, Lichfield Road	L	Yes	No	5.3	0.1	21.4	0	100.0

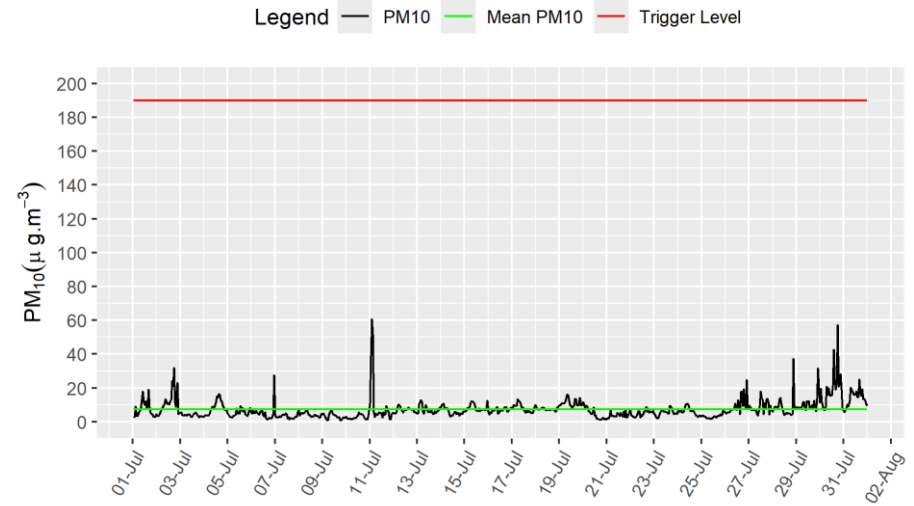
Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



AFE001



GE001



CHBS001

