

Air Quality and Dust Monitoring Monthly Report – June 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 June 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

- Stockpile movement.
- Gilson cutting.
- Embankment Dig & Replace.
- Piling platform construction.
- Installation concrete piles.
- Installing rebar/concreting.

Attleboro Lane Overbridge

- Strimming.
- Topsoil stripping.
- Dig and Replace & Embankment fill.
- Installing concrete piles.
- Installing rebar.
- Concreting.
- Installing shutters.
- Breaking down piles.
- Excavating.

Sublot 7

Faraday Avenue Embankment and Underbridge

- Installing shutters and rebar.
- Concrete works.
- Reducing dig to formation and backfilling.
- Exposing cables and ducts.
- Covering cables.
- Cleaning the diversion with a sweeper.
- Loading and carrying topsoil.
- Digging.
- Concrete pouring.
- Laying kerbs and ACO drains.
- Stoning footpath diversion by site entrance.
- Putting in signposts.

Marston Box

- Adjusting shutters per the temporary works requirements.
- Lift operative.
- Scaffolding.

Sublot 6NC

- No works occurred at this location.

Sublot 5N

Chattle Hill Box Structure

- A446 diversion works (excavation, road build up, drainage).
- Backfilling for cofferdam 1 under-track crossing chamber (UTX).
- Finishing work for wall.
- Pouring concrete UTX A1 wall.
- Removal of formwork for UTX A1 wall.

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.

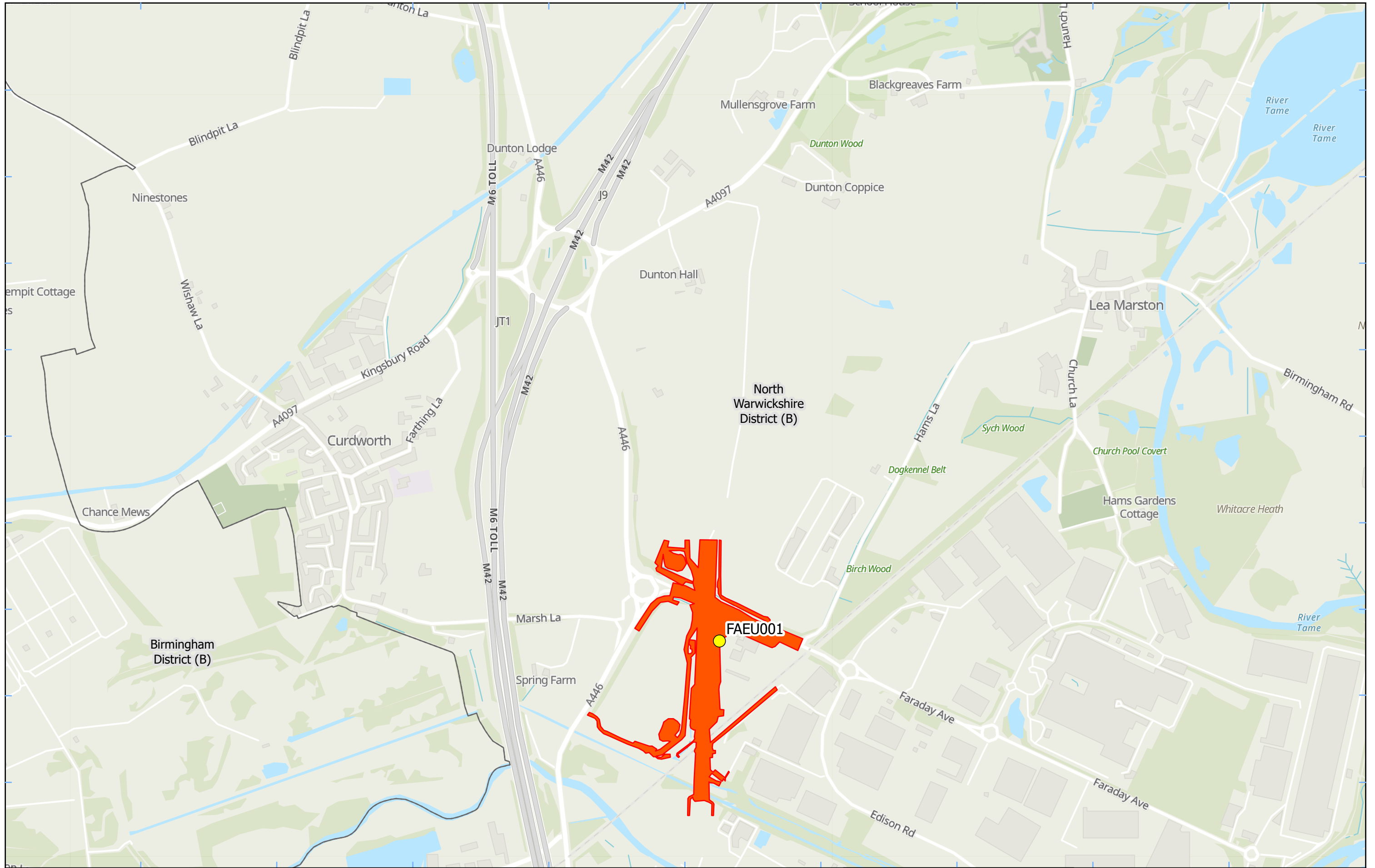
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.
- 1.1.8 No (0) dust trigger alerts were recorded during the monitoring period (June 2024).
- 1.1.9 Data capture was below 90% for multiple monitors due to BRD001 having an issue with the monitor. A full dust work up is scheduled for 3rd July 2024, and a field calibration is also scheduled for 9th July 2024. The low data capture at monitor FAEU001 was caused by an issue with the monitor which was resolved with the lab calibration swap out done on 28th June 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 June 2024

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-24-45487-C	N/A	Dust and dirt present.	Mitigation in place explained to resident, along with confirmation monitors are in place and have recorded no exceedances in permitted levels. Offer from contractor to install monitor at resident's property.

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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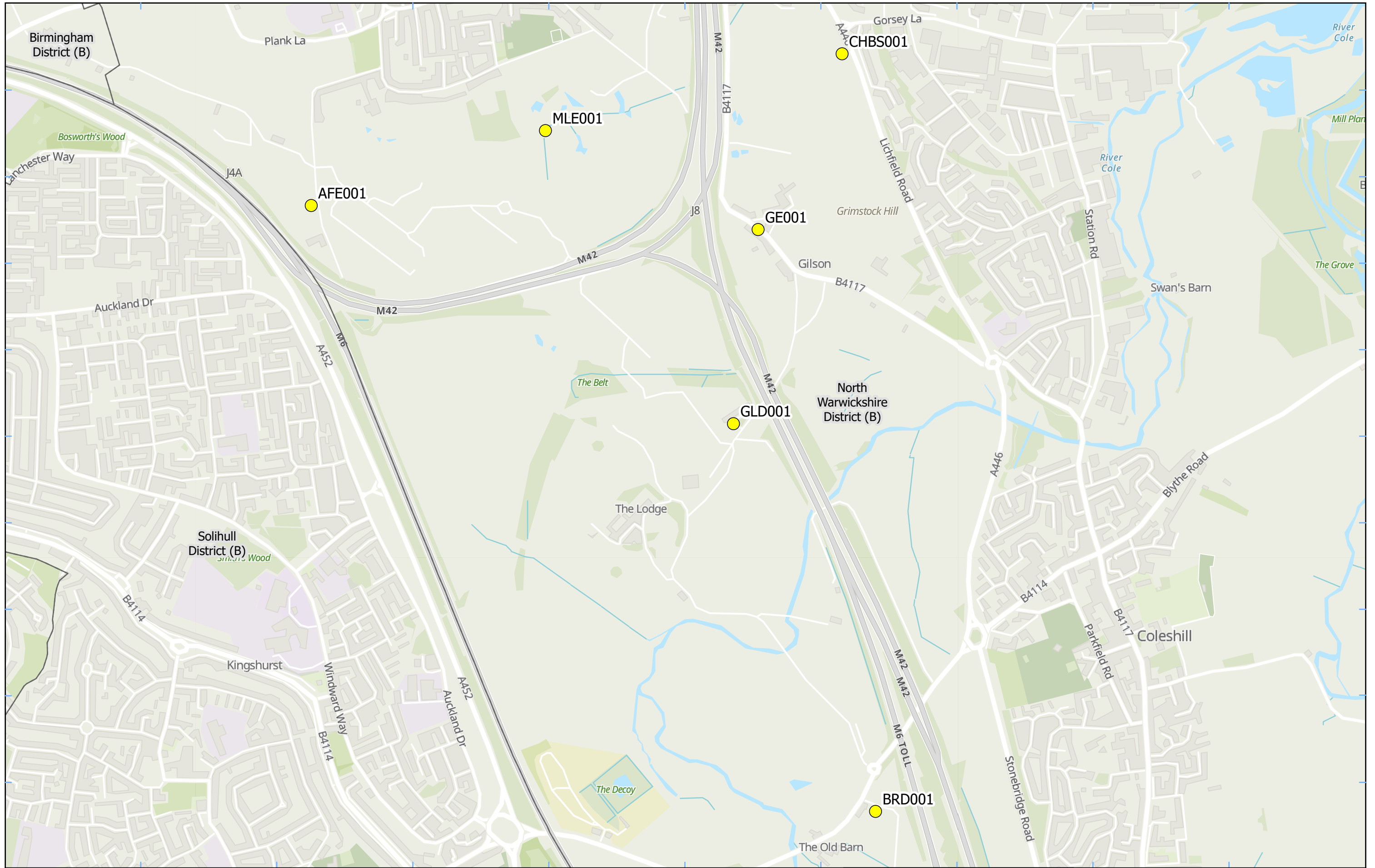
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Legend

- 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

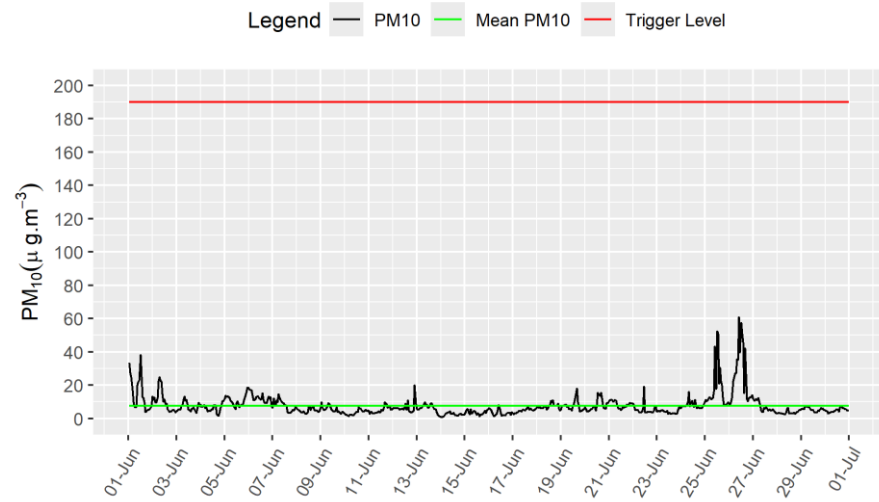
Table 2: Dust Monitoring Locations and Results

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	6.8	0.4	35.5	0	51.1
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	M	Yes	No	7.9	0.2	41.4	0	76.1
GLD001	418807, 289570	Gilson Drive	L	Yes	No	6.2	0.1	70.3	0	100.0
MLE001	418205, 290509	Vicarage Lane	L	Yes	No	6.4	0.5	29.3	0	100.0
AFE001	417455, 290269	Attleboro Farm, Attleboro Lane	L	Yes	No	7.6	0.8	61.0	0	100.0
GE001	418886, 290192	Lovegrove Cottage, Gilson Road	L	Yes	No	9.4	0.7	111.9	0	100.0
CHBS001	419155, 290755	6 Gorsey Way, Lichfield Road	L	Yes	No	6.1	0.1	33.9	0	100.0

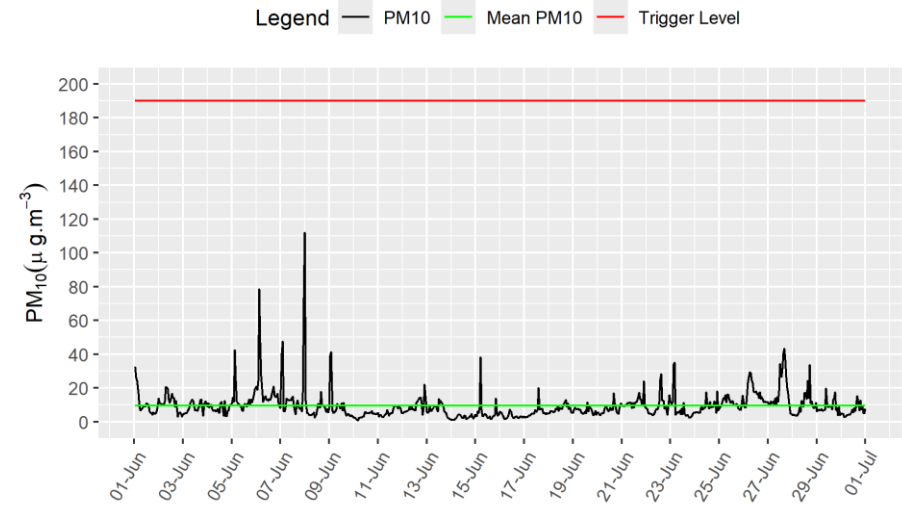
Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



AFE001



GE001



CHBS001

