

Air Quality and Dust Monitoring Monthly Report – February 2023

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 (NWBC) during February 2023.
- 1.1.2 Figures 1 and 2 in Appendix A indicate the current worksites together with the dust monitoring locations for February 2023.
- 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 Appendix A, Figures 1 and 2, include:

Sublot 6BS

Birmingham Road:

- Installation of cabins (4 units) using a crane and hiab.
- Install services (generator, drying room and water tank).
- Connection of toilets, offices and power.
- Construction of haul roads – installation and compacting general fill/aggregates.
- Construction of the piling platform – installation and compacting general fill/aggregates/embankment fill.
- Lime stabilisation.

Gilson Drive:

North of Gilson Drive:

- Construction of Green Lane embankment.
- Installation and compacting embankment fill.
- Lime stabilisation.
- Installation drainage ditches and ponds.

South of Gilson Drive:

- Construction of Crane Platform.
- Installation and compacting general fill/aggregates.

Sublot 7

Marston Box (MB):

- Select on site to begin dismantling tower cranes;
- Armac demolishing Old Mullengroves Farm buildings; and
- Road sweeper pit construction (Kingsbury Compound) – excavation, steel fix, concrete pours and lifting of blocks.

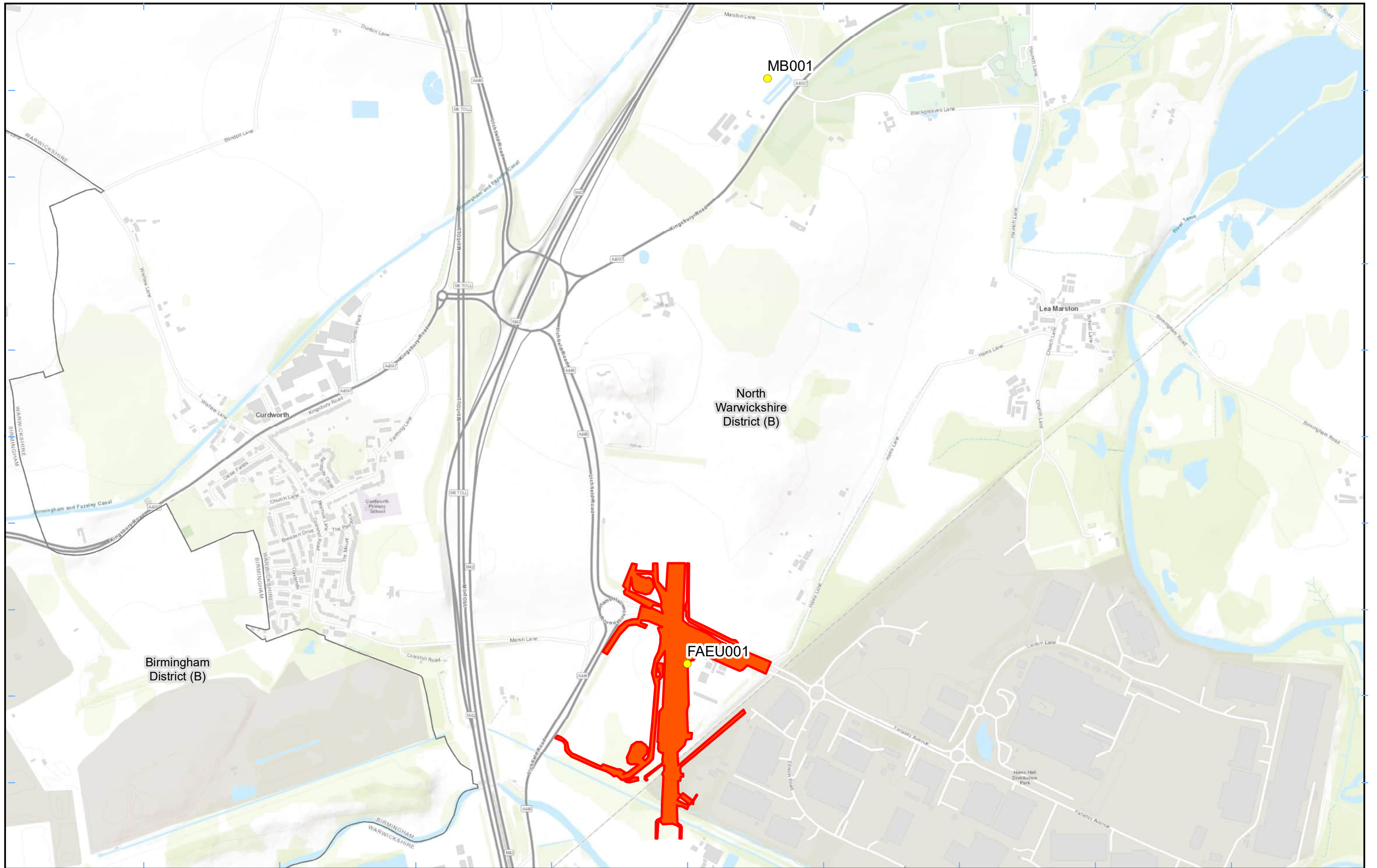
Faraday Avenue Embankment and Underbridge (FAEU):

- SB3 currently working in Faraday installing 40-65 piles per day.

- 1.1.5 Four (4) dust monitors are installed at the worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with a line chart of monthly data from the dust monitors 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 mitigations.
- 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 There were no (0) dust trigger alerts recorded during the monitoring period (February 2023).
- 1.1.9 Data capture is below 90% for BRD001 due to a possible battery failure.
- 1.1.10 There were no (0) complaints received during this reporting period (February 2023).

Appendix A – Worksites and Monitoring Locations


Figures 1 and 2: Worksites and Monitoring Locations within the 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



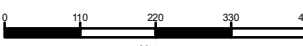
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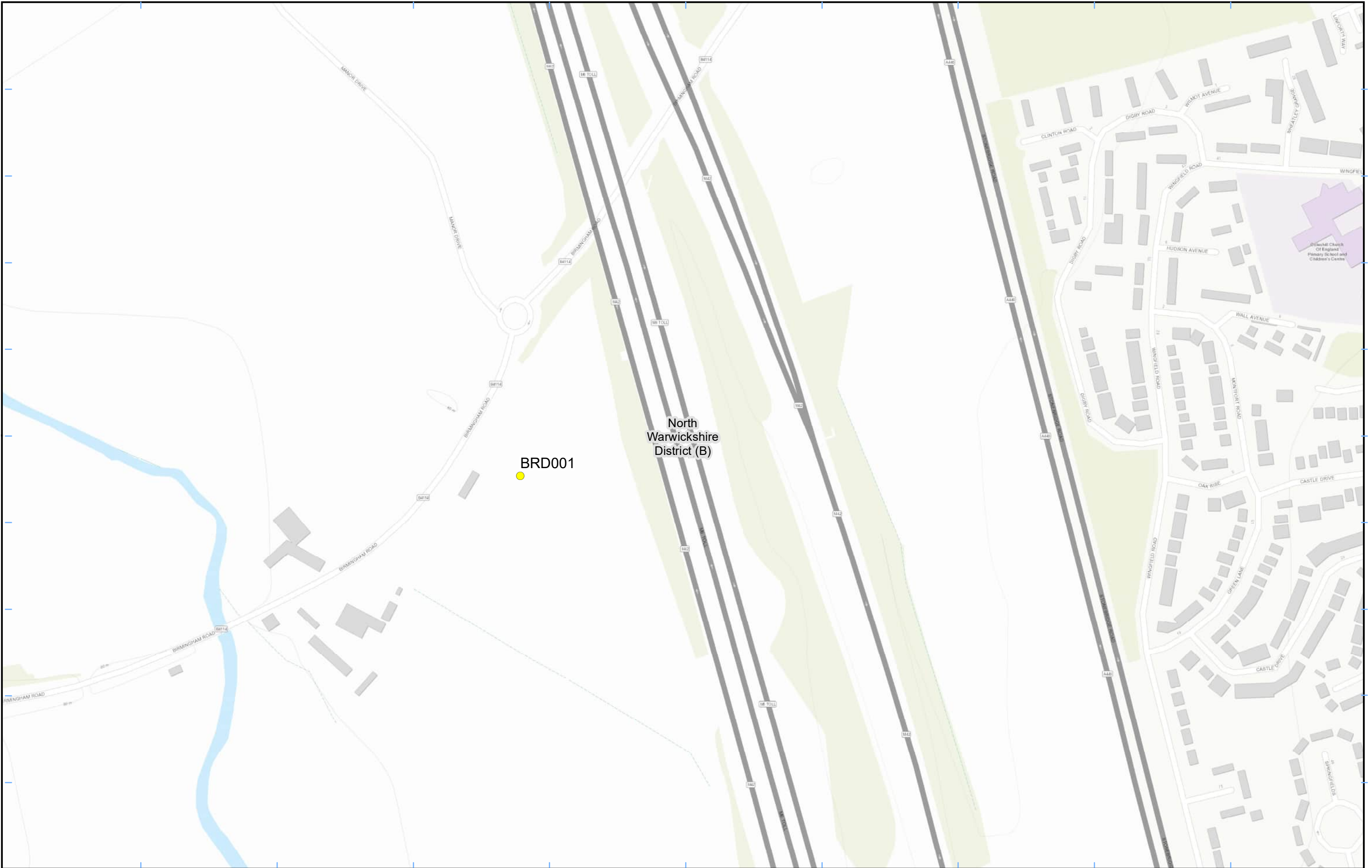


Scale at A3: 1:11,000



Metres

Date: 25/10/22



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 February 2023 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	M	Yes	No	11.0	0.2	46.5	0	87.9
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	M	Yes	No	10.4	0.1	47.6	0	99.9
MB001	419421, 294150	Elford House, Marston Box	M	Yes	No	9.7	0.1	43.1	0	100.0
GLD001	418807, 289570	Gilson Drive	M	Yes	No	1.4	0.1	14.7	0	90.6

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

