

## Air Quality and Dust Monitoring Monthly Report – March 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 March 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

- Bulk excavation and temporary road works, greater than 90m from monitor; and
- Excavating trench and installing new sewer pipes.

### Gilson Drive

- Road realignment and Embankment construction;
- Pier Construction; and
- Trial Holes.

### Attleboro Lane Overbridge

- Trenching and installing ducts (all work off road on new diversion; 1 x excavator and 1 x dumper; Concrete pump / jet wash; 2 x cranes and 1 x MEWP);
- Concrete pours - bridge deck;
- Prep of bridge parapet installation (Concrete pump, jet wash, 2 x cranes and 1 x MEWP);
- Scabbling d-walls - WOC platform G (inside portal) (Concrete pump, jet wash, generator 1 x 8 tonne HGV); and
- Concrete pours and clean d-walls.

## **Sublot 7**

### Faraday Avenue Embankment and Underbridge:

- Embankment and technical backfill construction;
- Faraday Avenue Road construction East tie in, laying of tarmac for road. Hydroseeding; and
- Scaffolding, steel fixing, shuttering and pouring W5 and W6 upper level.

#### Marston Box

- General site maintenance;
- Hot works for rebar cutting;
- Erecting shuttering;
- Merlo lifting rebar and materials to excavation;
- Lay down area relocated, forklift in use; and
- Exchanges of 40yd RoRos.

#### **Sublot 6NC**

##### Attleboro Lane Overbridge

- Concrete pours - bridge deck;
- Prep of bridge parapet installation;
- Scabbling d-walls - WOC platform G (inside portal); and
- Concrete pours & clean d-walls.

#### **Sublot 5N**

##### Chattle Hill Box Structure

- Construction of Abutment Walls;
- Pouring of Pile cap UTX south;
- Pouring of UTX north wall;
- Construction of Abutment Walls AOE and AOW; and
- Backfilling for UTX south pile cap.

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.

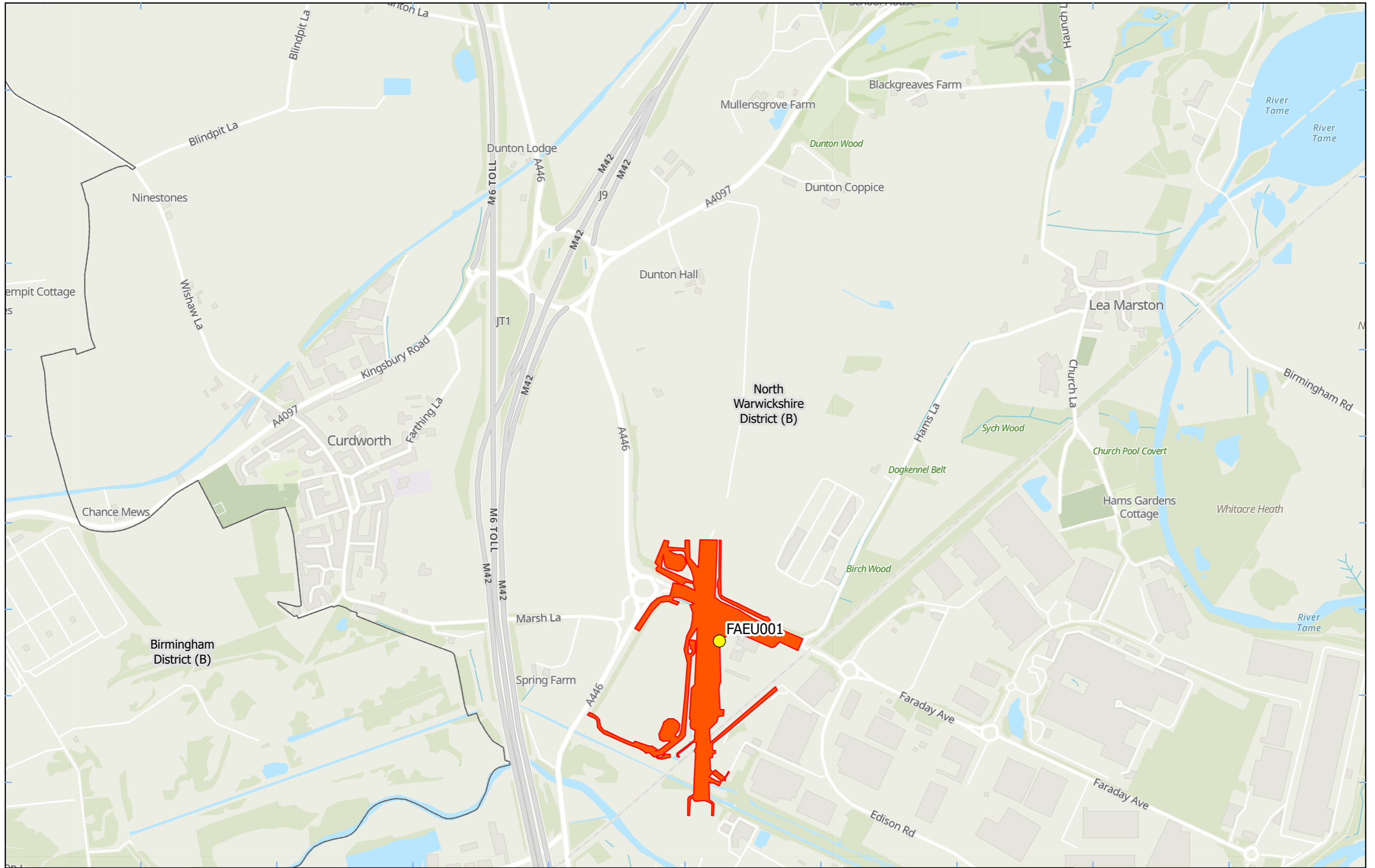
1.1.7 The trigger level for PM<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.

1.1.8 No (0) dust trigger alerts were recorded during the monitoring period (March 2024).

1.1.9 There were no (0) complaints received during this reporting period (March 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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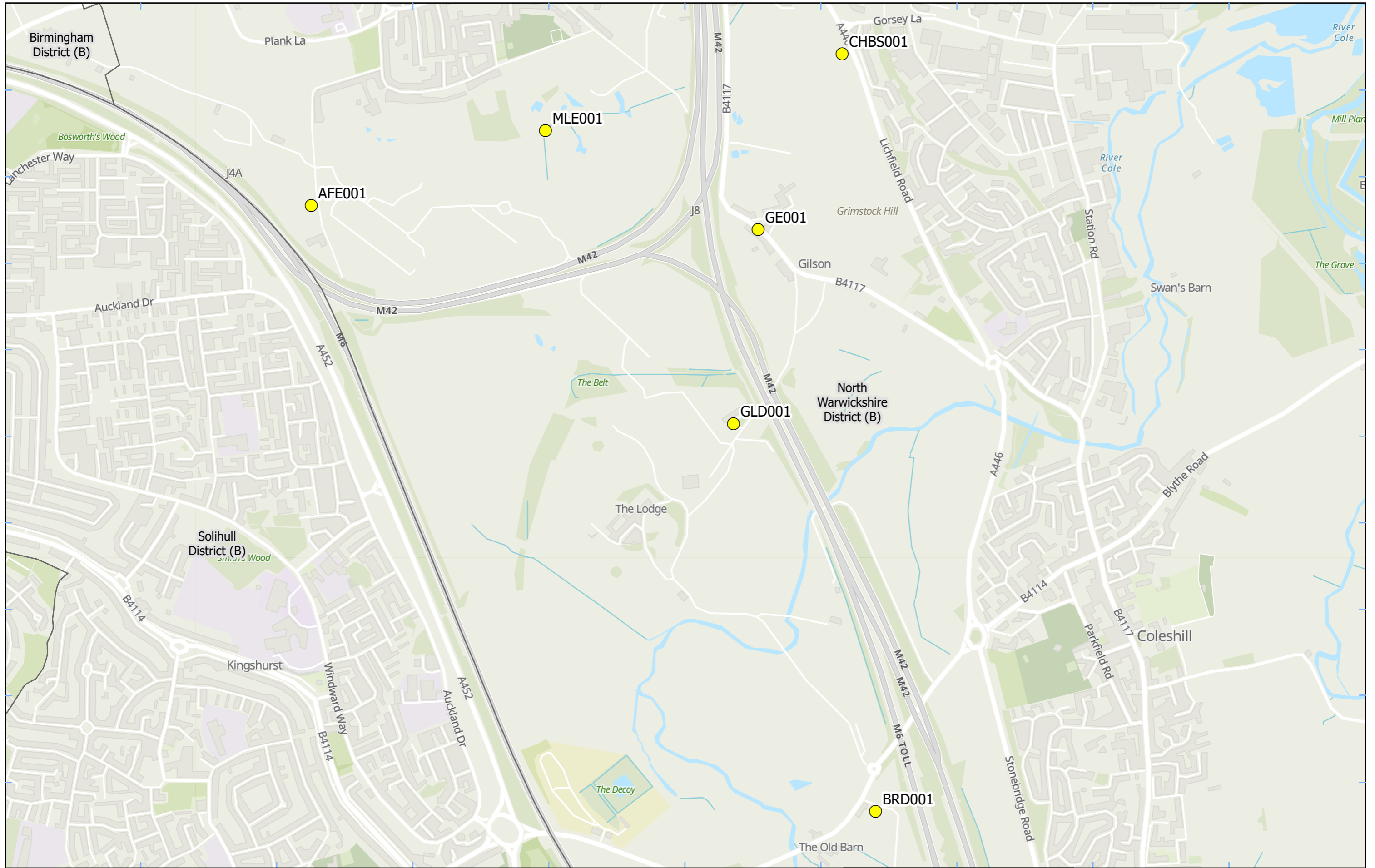
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**Legend**

- 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	9.2	0.1	43.0	0	96.4
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	M	Yes	No	11.4	0.7	43.7	0	99.3
GLD001	418807, 289570	Gilson Drive	L	Yes	No	9.6	0.1	41.1	0	99.6
MLE001	418205, 290509	Vicarage Lane	L	Yes	No	9.6	0.1	66.4	0	99.7
AFE001	417455, 290269	Attleboro Farm, Attleboro Lane	L	Yes	No	10.4	0.1	65.8	0	99.7
GE001	418886, 290192	Lovegrove Cottage, Gilson Road	L	Yes	No	10.4	0.0	45.0	0	99.7
CHBS001	419155, 290755	6 Gorseway Way, Lichfield Road	L	Yes	No	11.3	0.2	50.6	0	99.7

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



