

## Air Quality and Dust Monitoring Monthly Report – January 2023

North Warwickshire Borough Council



## Department for Transport

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

## **Coleshill Embankment (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.

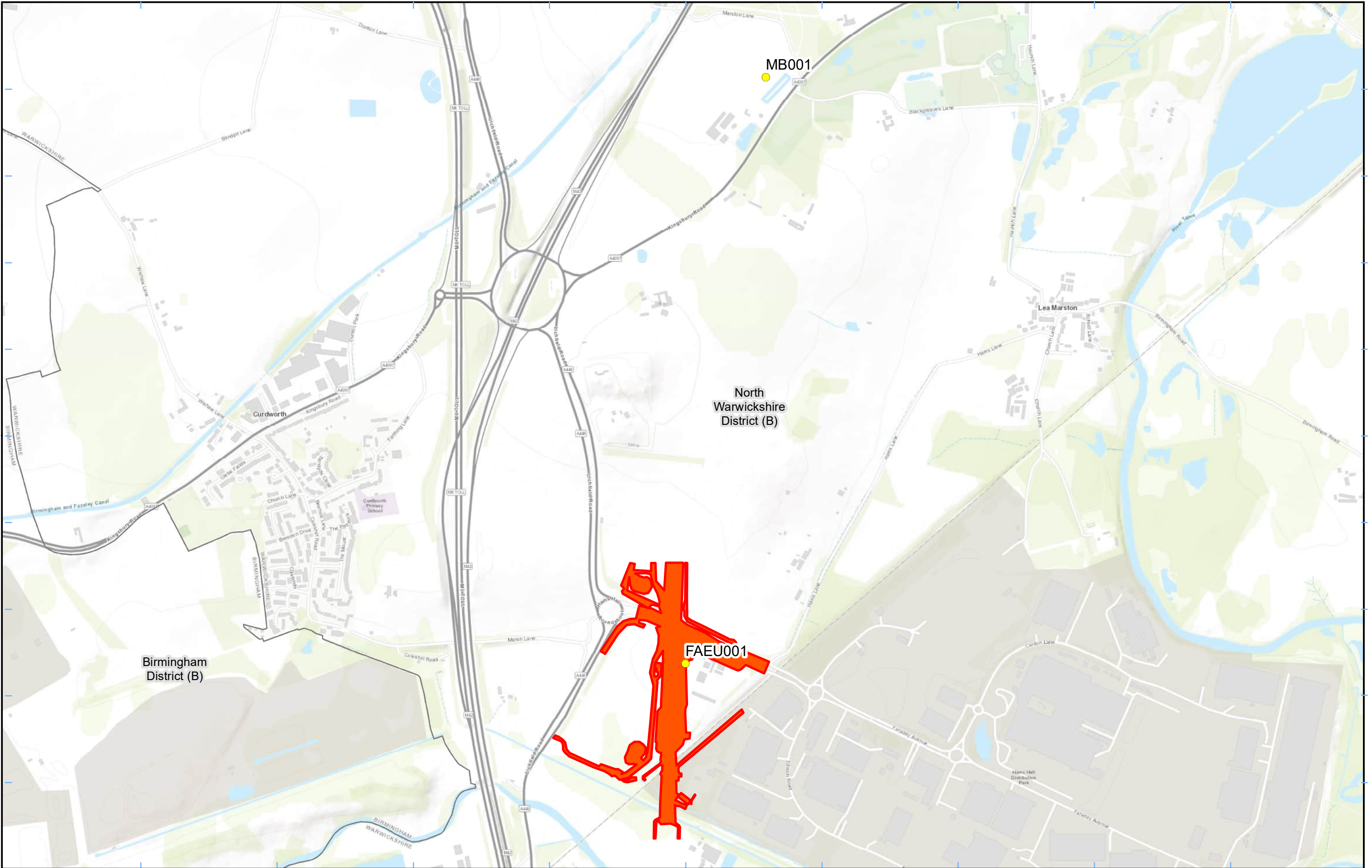
### **Sublot 7**

- Faraday Avenue Embankment and Underbridge site; and
- Marston Box

- 1.1.5 Four (4) dust monitors are installed at 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 line charts 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 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 There were no (0) dust trigger alerts recorded during the monitoring period (January 2023).
- 1.1.9 Data capture was below 90% for multiple monitors due to power supply issues.
- 1.1.10 There were no (0) complaints received during this reporting period.

# 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

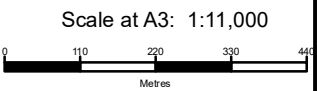


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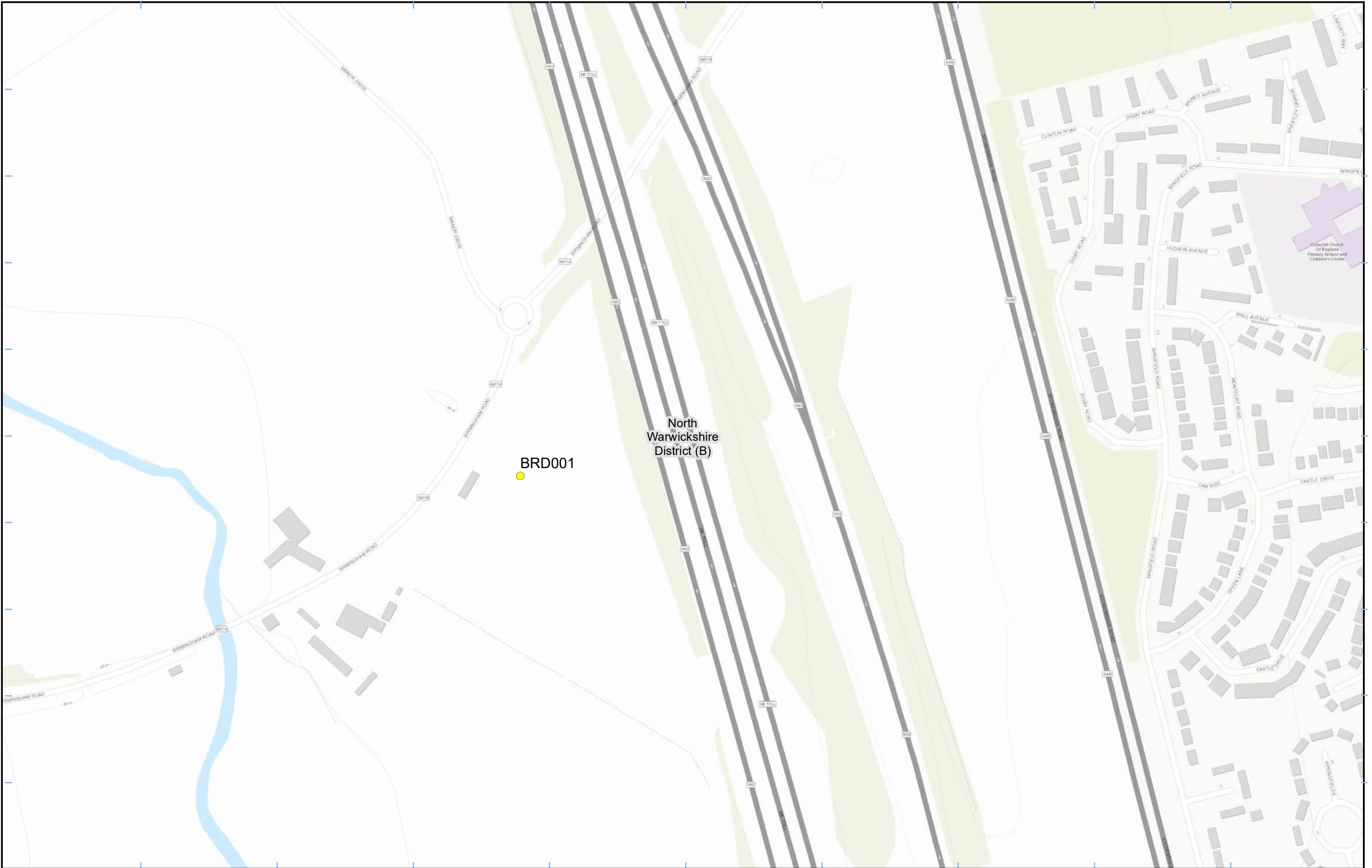
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**Legend**  
 Dust Monitor  
 District Borough Unitary Boundaries

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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 January 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 <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                       | M                         | Yes                                  | No  | 8.2   | 0.1  | 56.6   | 0  | 99.7             |
| FAEU001            | 419164, 292273    | Faraday Avenue Embankment and Underbridge, at Orchard Cottage | M                         | Yes                                  | No  | 6.7   | 0.1  | 46.1   | 0  | 69.8             |
| MB001              | 419421, 294150    | Elford house, Marston Box                                     | M                         | Yes                                  | No  | 8.0   | 0.1  | 84.6   | 0  | 69.4             |
| GLD001             | 418807, 289570    | Gilson Drive  | M                         | Yes                                  | No  | 1.4   | 0.1  | 23.9   | 0  | 79.8             |



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

