

## Air Quality and Dust Monitoring Monthly Report – October 2022

North Warwickshire Borough Council



## Department for Transport

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High Speed Two (HS2) Limited,  
Two Snowhill  
Snow Hill Queensway  
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: [HS2enquiries@hs2.org.uk](mailto:HS2enquiries@hs2.org.uk)

Website: [www.gov.uk/hs2](http://www.gov.uk/hs2)

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 October 2022.
- 1.1.2 Figures 1 and 2 in Appendix A indicates the current worksites together with the dust monitoring location for October 2022.
- 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, Figure 1 and 2, include:
- Sublot 6BS**
- Earthworks; and
  - Ground preparation.
- Sublot 7**
- Bell mouth and noise barrier construction.
- 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 location and results are presented in Appendix B, Table 2, 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 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.

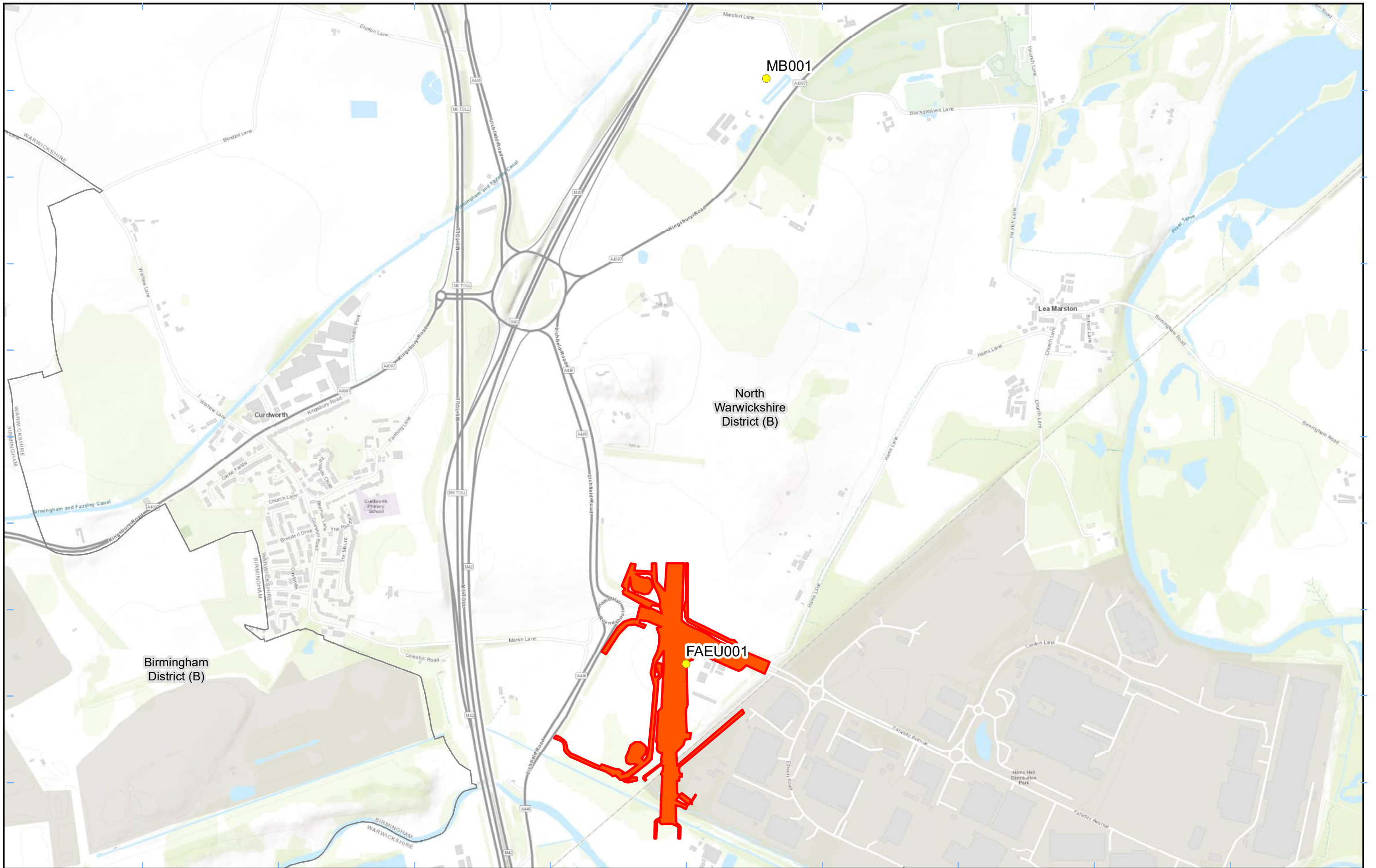
- 1.1.8 There were no (0) dust trigger alerts recorded during the monitoring period (October 2022).
- 1.1.9 Data capture was below 90% for New Cottage (BRD001; 38.2%) due to the dust monitor needing to be repaired following an issue with the power supply. The power supply was reinstated and monitoring resumed on 20<sup>th</sup> October.
- 1.1.10 Table 1 provides a summary of the complaint information related 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 October 2022 in NWBC

| <b>Complaint Reference No.</b> | <b>Worksite Reference</b> | <b>Description of complaint</b>  | <b>Results of investigation</b>  |
|--------------------------------|---------------------------|--|--|
| HS2-22-44029-C                 | -                         | Uncontrolled lime dust release poses a significant long term health risk to residents & settling on cars/properties. | Prevailing winds were calm & heading to the south, whereas Attleboro Lane is north of the lime works. All lime works moved to an area with least impact to residents. Water cannons dampen down any airborne lime dust. No stabilising works are undertaken on windy days. Dust monitor did not record any undue concentration of particles on that day. Deposits on cars speculated to be from a local fire/ bonfire. |

# 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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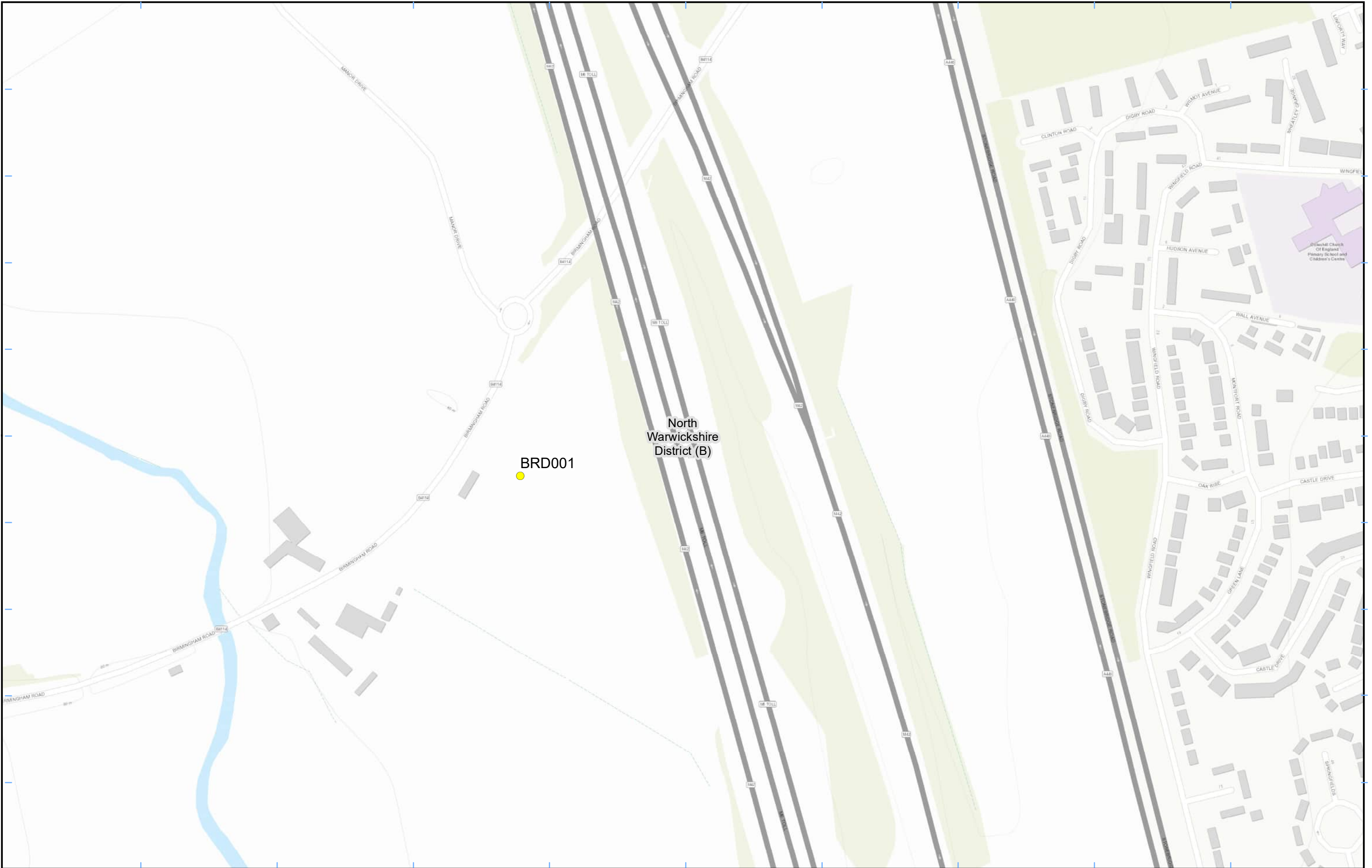
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**Legend**  
 Dust Monitor  
 District Borough Unitary Boundaries

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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 2: Dust Monitoring Locations and October 2022 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  | 6.0   | 0.1  | 26.3   | 0  | 38.3             |
| FAEU001            | 419164, 292273    | Faraday Avenue Embankment and Underbridge, at Orchard Cottage | M                         | Yes                                  | No  | 4.1   | 0.1  | 20.3   | 0  | 99.9             |
| MB001              | 419421, 294150    | Elford house, Marston Box                                     | M                         | Yes                                  | No  | 5.9   | 0.8  | 31.4   | 0  | 99.9             |
| GLD001             | 418807, 289570    | Gilson Drive  | M                         | Yes                                  | No  | 4.9   | 0.3  | 30.7   | 0  | 97.0             |



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

