

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

Warwick District 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 Warwick District Council (WDC) during May 2022.
- 1.1.2 Figures 1 and Figure 2 in Appendix A indicate the current worksites together with the dust monitoring locations for May 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, Figures 1 and 2, includes:

## **Burton Green Tunnel**

- Construction of the haul road and compound at the South Portal;
- Earthworks in the vicinity of Hodgetts Lane; and
- Removal of tree roots and vegetation from North Cromwell Lane to Waste Lane.

## **Welsh Road Underbridge Satellite Compound**

- Compound extension;
- Crossing construction and road widening;
- Subsoil stockpile; and
- Earthworks cutting.

## **A429 Kenilworth Road Overbridge**

- Soil stripping;
- Stockpiling; and
- Temporary drainage construction.

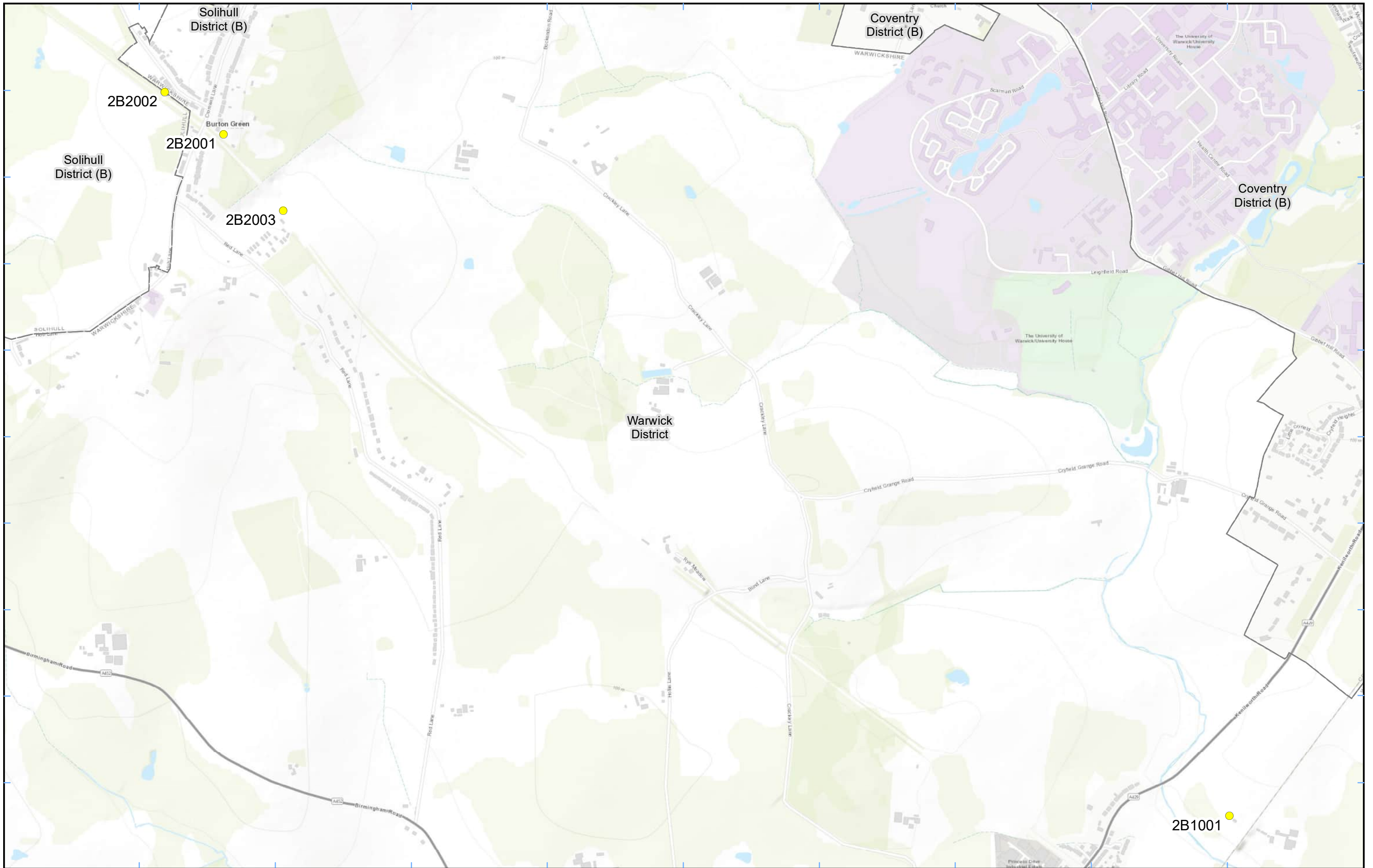
- 1.1.5 Five (5) dust monitors have been installed at the worksite, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from the dust monitors presented in Figures 4-8. 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. Details of the trigger alert investigations and remediations are presented in Appendix B, Table 2.
- 1.1.8 Data capture was under 90% for the monitor 2B1001 as it was in need of calibrating.
- 1.1.9 There were no (0) complaints received during the reporting period (May 2022).

# Appendix A – Worksites and Monitoring Locations

Figure 1 and 2: Worksites and monitoring locations within the WDC



**Legend**  
 Dust Monitor  
 District Borough Unitary Boundaries

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Map Number  
 Map Name  
**Worksite and Monitoring Locations  
 In WDC (Sheet 1)**  
 Warwick District Council

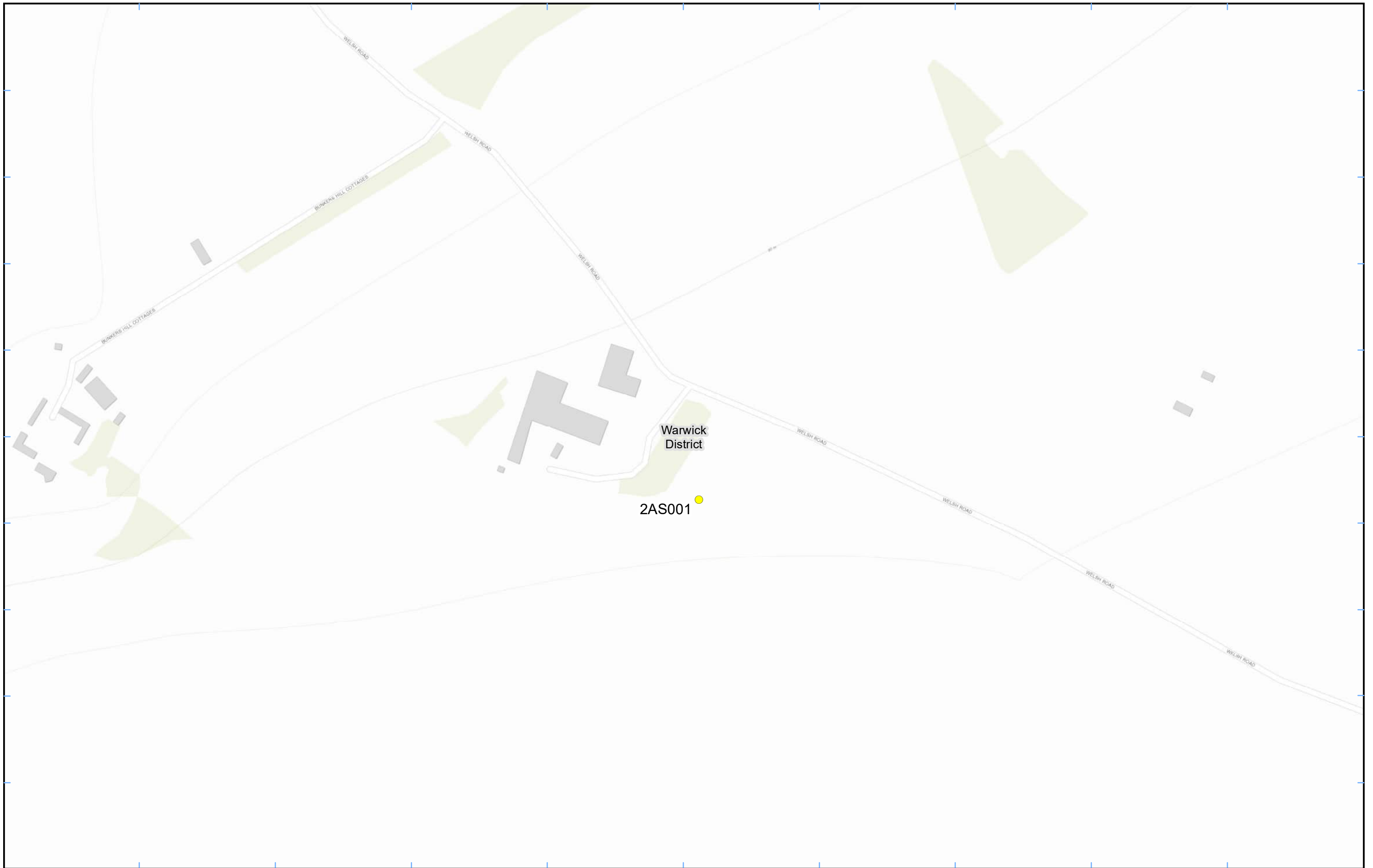
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**Legend**

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

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Map Name  
**Worksite and Monitoring Locations  
 In WDC (Sheet 2)**

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**Warwick District Council**

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## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and May 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 (%)
2B1001	430183, 273698	Sublot 2B1, at nearest sensitive receptor, Brookview Farm, Millburn Grange	M	Yes	No	0.4	0.1	3.7	0	35.8
2B2001	426960, 275882	Sublot 2B2, at nearest sensitive receptor on Cromwell Lane	M	Yes	No	10.6	1.3	1000.1	2	100.0
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	1.2	0.1	53.4	0	93.3
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	8.2	1.0	43.6	0	100.0
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	No	5.6	0.4	35.8	0	100.0



Table 2: Exceedance of 1-hour PM<sub>10</sub> concentration at dust monitoring locations.

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
2B2001	31/05/2022  11:01 – 12:00; 1000.1 µg/m <sup>3</sup>  12:01 – 13:00; 326.7 µg/m <sup>3</sup>	No construction activities were undertaken in close vicinity of the monitor. Wind conditions during this time were from the north west, away from the construction site, and it is considered that the source is likely to be from the residential properties or other source, and very unlikely to be construction related. It is noted that there was no significant rise in PM <sub>10</sub> levels at 2B2002 at the same time as this exceedance, confirming that the source is unlikely to be from the construction site.	N/A

Figure 4: Construction dust 1-hour mean indicative PM10 concentration for all monitors

