

Air Quality and Dust Monitoring Monthly Report – January 2022

Warwick District 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 Warwick District Council (WDC) during January 2022.
- 1.1.2 Figures 1 and 2 in Appendix A indicate 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, 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 phase of works commenced in April 2021 and is expected to be completed by 2024. The current worksites, as presented in Appendix A, Figure 1 and 2, include:

Sublot 2B2

- Construction of the haul road and compound;
- Earthworks; and
- Removal of tree roots and vegetation.

Sublot 2AS

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

Sublot 2B1

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

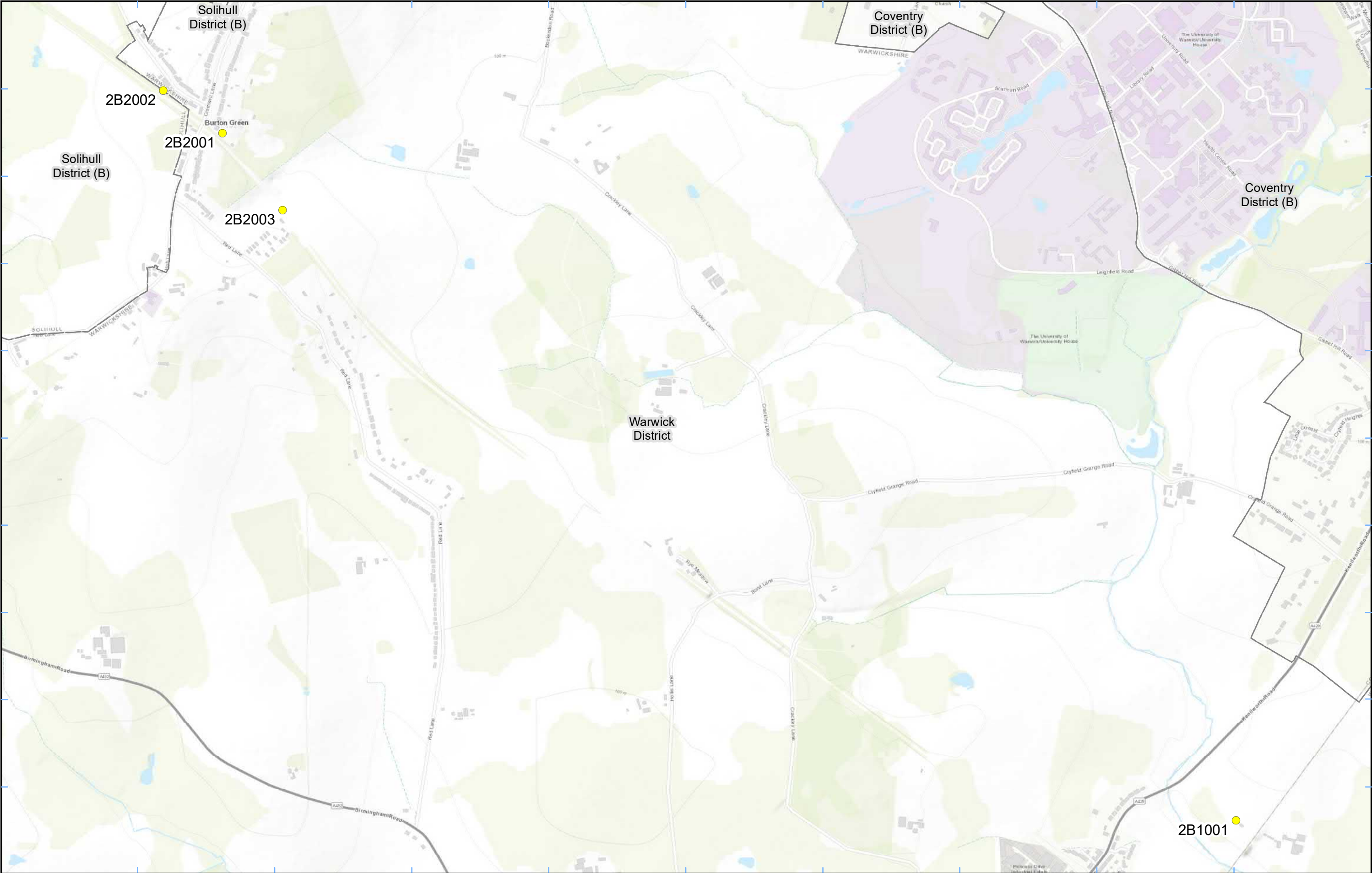
- 1.1.5 Five (5) dust monitors have been installed around worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from the dust monitors presented in Figures 3 and 4. 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 Dust trigger alerts were recorded during the monitoring period (January 2022) as presented in Table 2.
- 1.1.9 Data capture was below 90% for multiple monitors in January 2022 due to power supply issues.
- 1.1.10 There were no (0) complaints received during the reporting period.


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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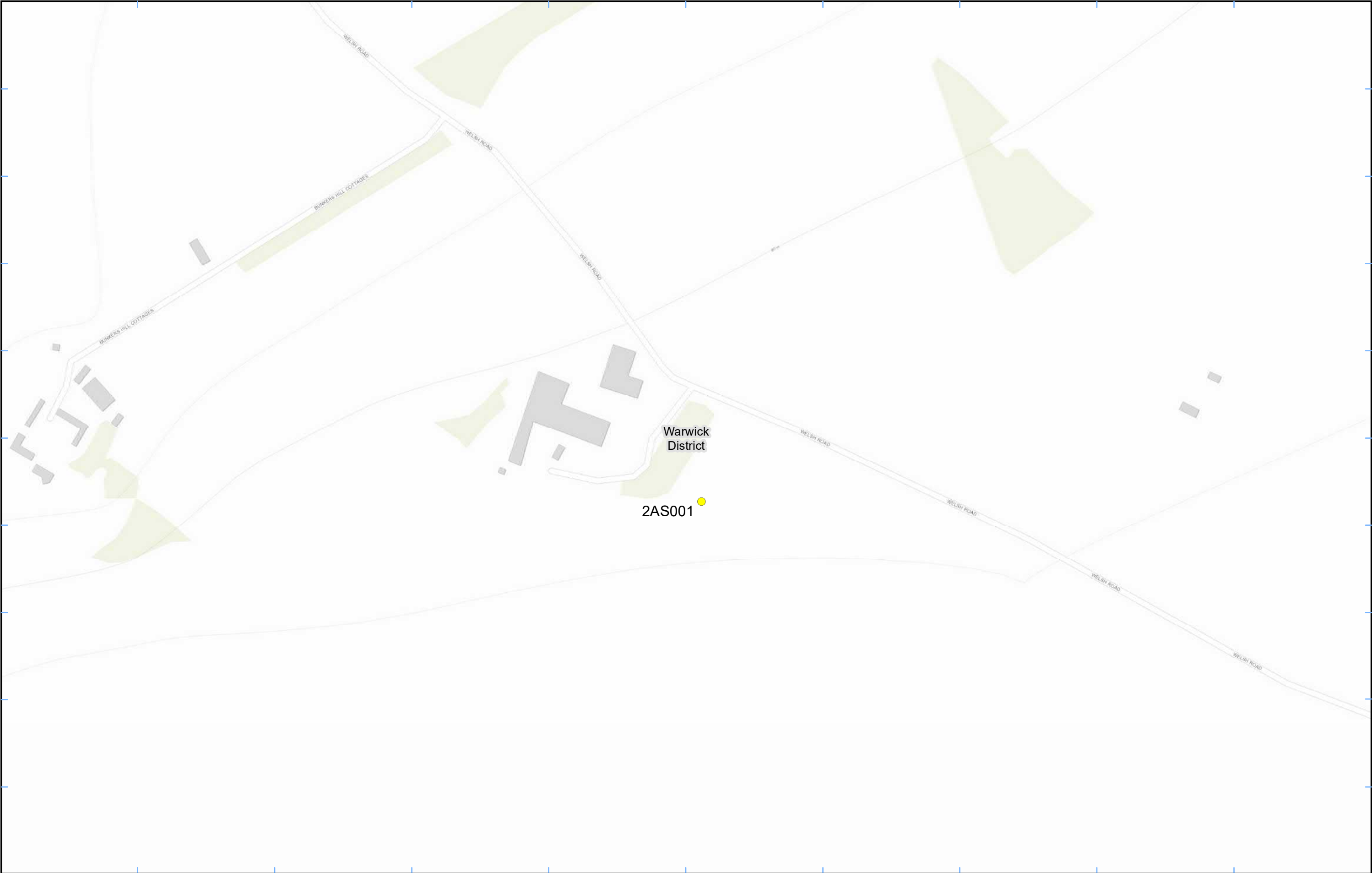
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Date: 30/11/21




Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number
Map Name Worksite and Monitoring Locations In WDC (Sheet 2)
Warwick District Council




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Date: 30/11/21

Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and January 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 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 (%)
2B1001	430183, 273698	Sublot 2B1, at nearest sensitive receptor, Brookview Farm, Millburn Grange	M	Yes	No	6.9	0.1	33.3	0	65.9
2B2001	426960, 275882	Sublot 2B2, at nearest sensitive receptor on Cromwell Lane	M	Yes	No	17.1	0.9	195.3	1	85.3
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	3.0	0.1	212.9	1	81.0
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	18.3	1.1	128.5	0	91.8
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	No	6.2	0.8	36.0	0	14.7

Table 2: Summary of exceedances of trigger level in January 2022

Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
2B2001	12/01/2022 22:01 – 23:00; 195.3 µg/m ³	There were no site works active at the times of the monitored exceedances. Taken together with the relatively low PM ₁₀ concentrations monitored at these locations at other times during January 2022 and previous periods, it is considered unlikely that these exceedances were caused by construction dust associated with the Burton Green tunnel works.	N/A
2B2002	13/01/2022 23:01 – 00:00; 212.9 µg/m ³		

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

