

Air Quality and Dust Monitoring Monthly Report – June 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 June 2022.
- 1.1.2 Figures 1 and 2 in Appendix A indicate the current worksites together with the dust monitoring locations for June 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, 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:

Burton Green Tunnel (Sublot 2B2)

- 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 (Sublot 2AS)

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

A429 Kenilworth Road Overbridge (Sublot 2B1)

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

- 1.1.5 Five (5) dust monitors have been installed around the 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 2, 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.

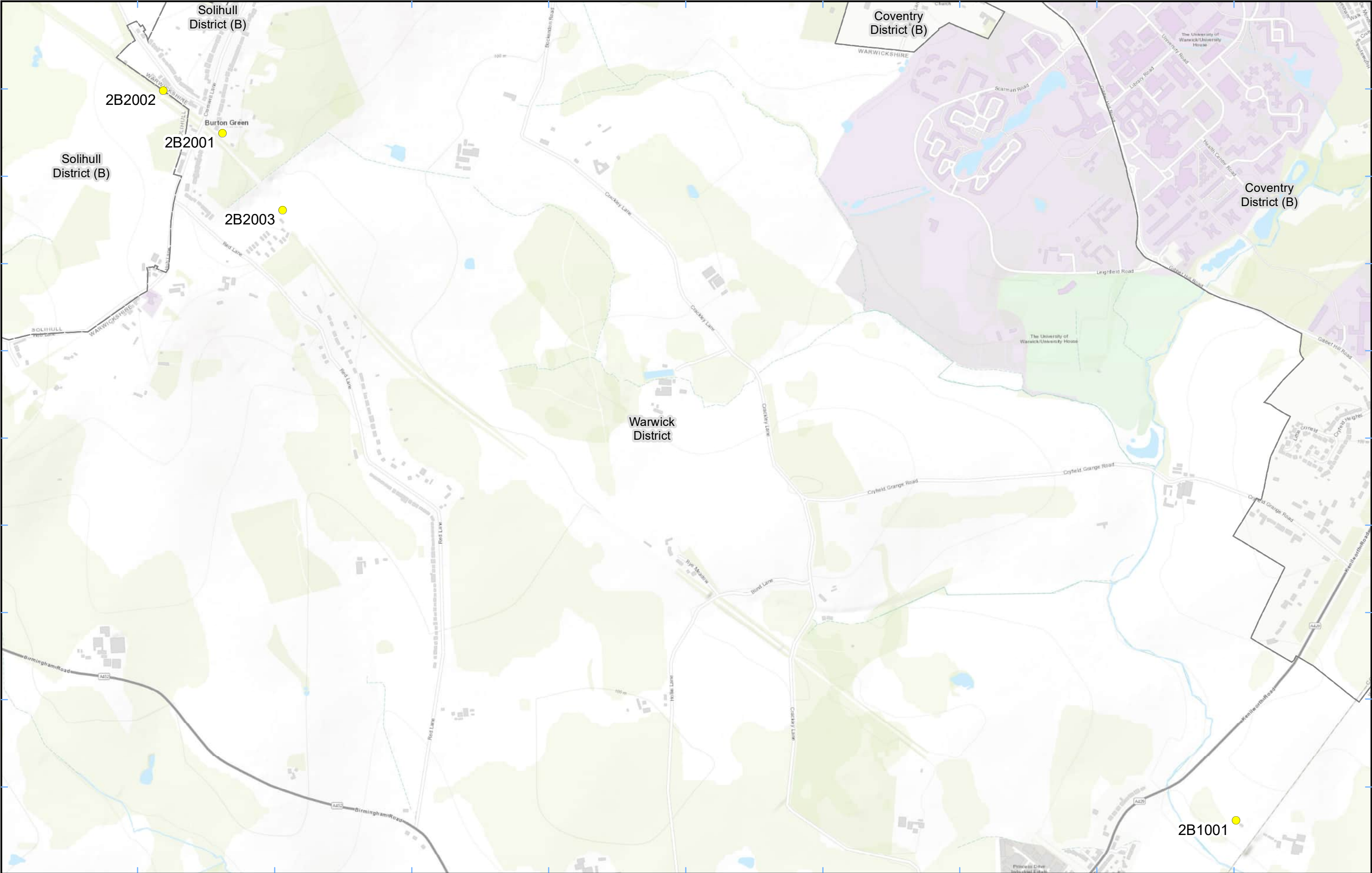
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.
- 1.1.8 There were no (0) dust trigger alerts recorded during the monitoring period (June 2022).
- 1.1.9 Data capture was below 90% for 2B2002 due to the site needing vegetation clearance to clear obstructions to the solar panels so that the battery could charge.
- 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 June 2022 in WDC

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-22-78769-E-C	N/A	Dust from concrete causing issues.	Monitors have now been erected in the general vicinity. In addition the stakeholder is going through a special cases application.

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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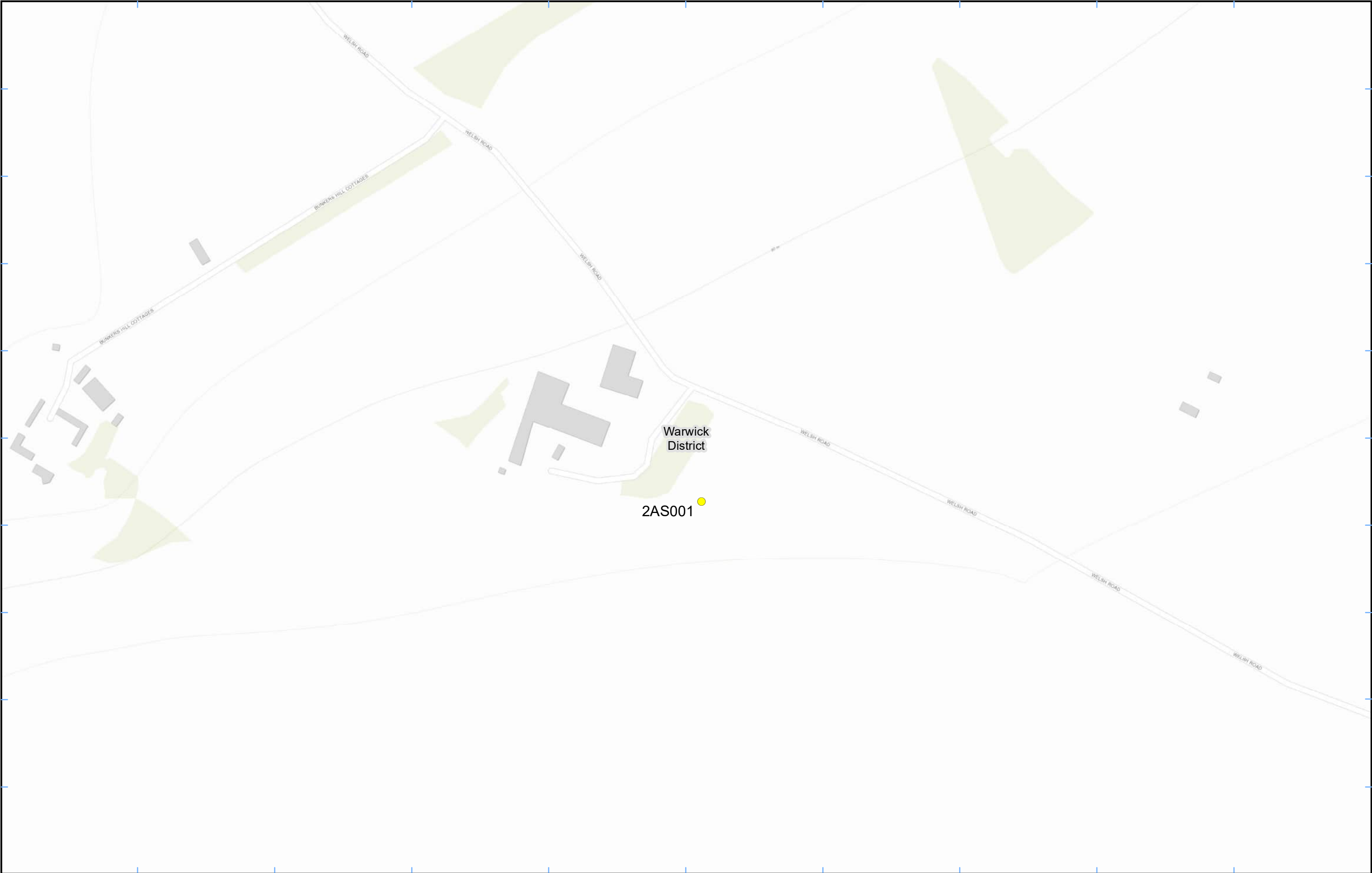
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Metres

Date: 30/11/21




Legend

-  Dust Monitor
-  District Borough Unitary Boundaries


Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Map Number
Map Name
Worksite and Monitoring Locations In WDC (Sheet 2)
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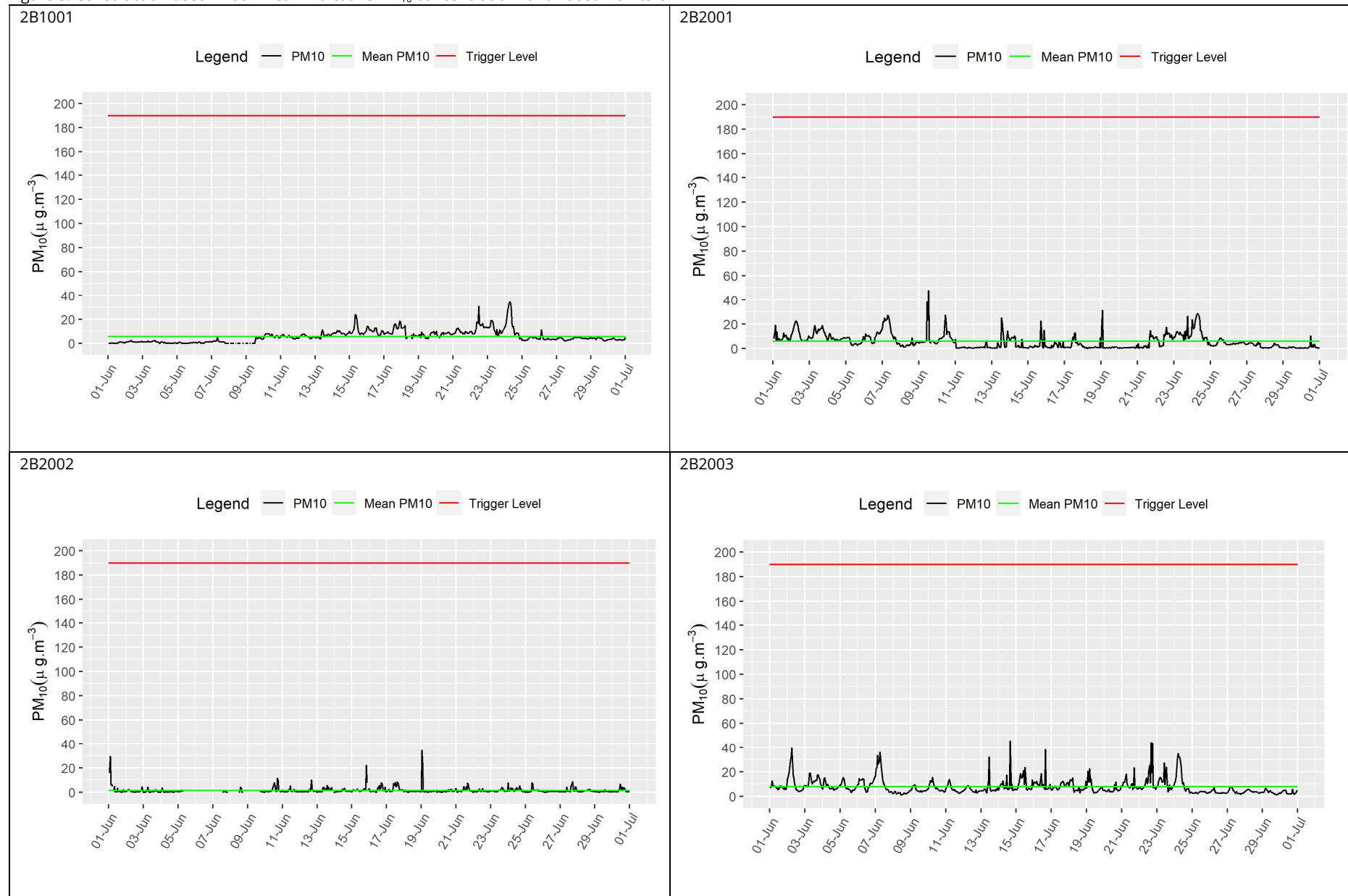
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Appendix B – Dust Monitoring Results

Table 2: Dust monitoring locations and June 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	5.7	0.1	34.7	0	90.8
2B2001	426960, 275882	Sublot 2B2, at nearest sensitive receptor on Cromwell Lane	M	Yes	No	5.8	0.1	47.9	0	99.9
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	1.5	0.1	34.6	0	84.6
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	7.8	1.0	45.7	0	100.0
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	No	4.9	0.2	46.3	0	100.0

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



2AS001

