

Air Quality and Dust Monitoring Monthly Report – May 2024

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.

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

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

A report prepared by EWCs and MWCCs on behalf of HS2 Ltd.

High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2024, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v2.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-government-licence/version/2 **OGI** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: psi@nationalarchives.gsi.gov.uk. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



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 within Warwick District Council (WDC) during May 2024.
- 1.1.2 Figures 1 to Figure 3 in Appendix A present 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 worksites, as presented in Appendix A, Figures 1 to 3, include:

Sublot 2A2

Fosse Way Main – Long Itchington Road

- Preparation of temporary stockpiles and material storage.
- Topsoil removal.
- Installation of drainage.
- Installation of temporary bridges, culverts, and headwalls.
- Contestable utility diversions, removal, and protection.
- Earthworks.
- Structures.
- Structures in extended hours.
- General site duties.
- Operation of concrete batching plant.
- Generator.

Stoneleigh Park – East Lodge

- Mobilisation of satellite compounds.
- Installation of site access points and plant crossing.
- Installation of temporary drainage.
- Haul road construction.
- Excavation of flood compensation area.
- Contestable utility diversions, removal, and protection.
- General site duties.
- Installation of temporary fencing including hoardings.

- Earthworks.
- Structures.
- Bentonite batching plant.

Cubbington Compound Worksite

- Preparation of temporary stockpiles and material storage.
- Topsoil removal.
- Installation of drainage.
- Installation of temporary bridges, culverts, and headwalls.
- Contestable utility diversions, removal, and protection.
- Earthworks.
- Structures.
- Structures in extended hours.
- General site duties.
- Operation of concrete batching plant.
- Generator.

Burton Green Tunnel (Sublot 2B2)

- Tunnel excavation/diggers.
- Bachy Soleteche Balfour Beatty Ground Engineering joint venture (SB3) Hydrofraise piling works.
- Concrete pour.

Sublot 2AS

Offchurch Cutting – Welsh Road Farm

- Preparation of temporary stockpiles and material storage.
- Topsoil removal.
- Installation of drainage.
- Installation of temporary bridges, culverts, and headwalls.
- Contestable utility diversions, removal, and protection.
- Earthworks.
- Structures.
- Structures in extended hours.
- General site duties.
- Operation of concrete batching plant.
- Generator.

Offchurch Cutting – Valley Fields

- Preparation of temporary stockpiles and material storage.
- Topsoil removal.
- Installation of drainage.
- Installation of temporary bridges, culverts, and headwalls.

- Contestable utility diversions, removal, and protection.
- Earthworks.
- Structures.
- Structures in extended hours.
- General site duties.
- Operation of concrete batching plant.
- Generator.

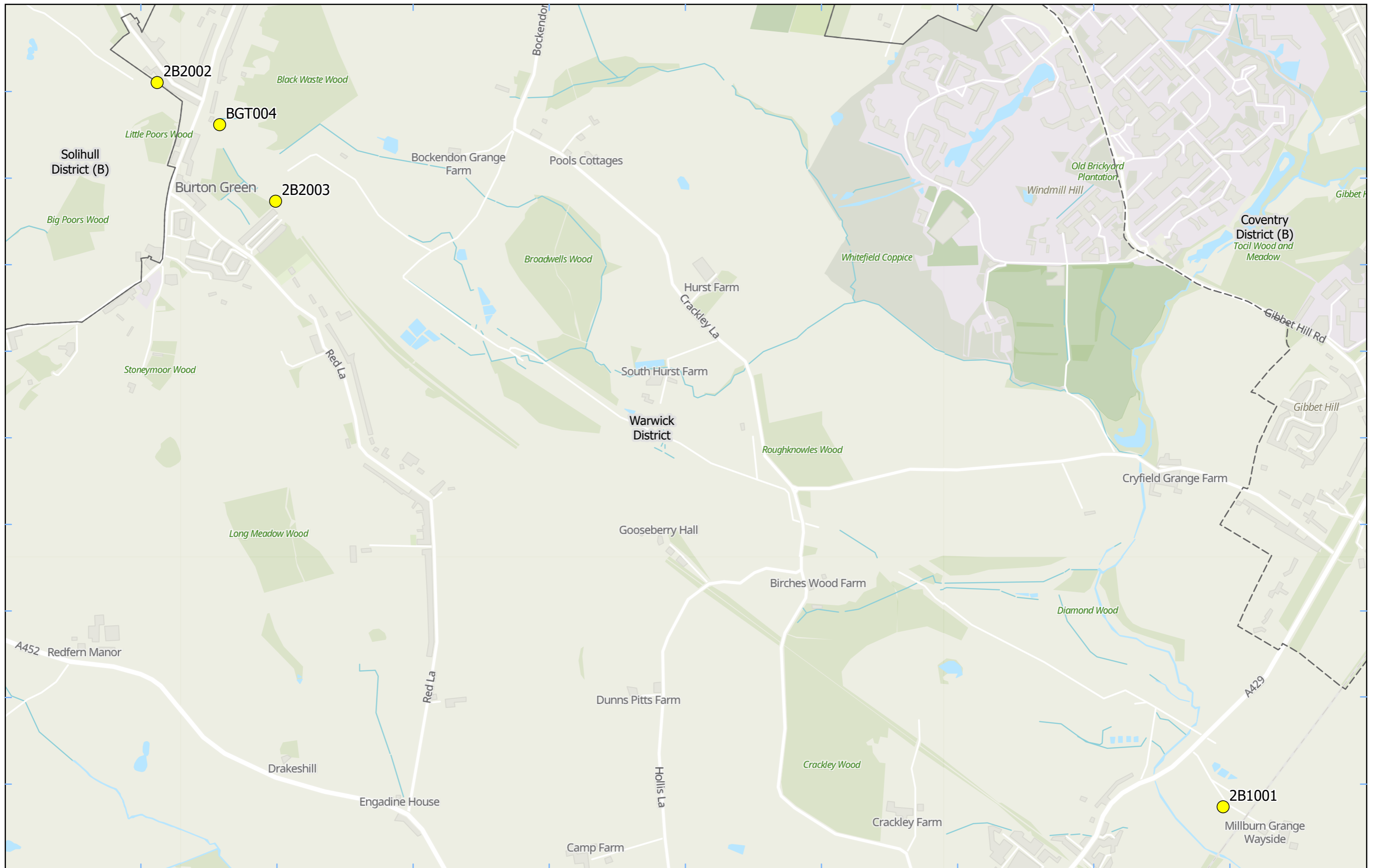
A429 Kenilworth Road Overbridge (Sublot 2B1)

- Trench sheet installation.
- Ongoing excavation of sheet piling works.

- 1.1.5 Ten (10) dust monitors are installed around these worksites, where works are underway. These sites returned a low to 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 each dust monitor, presented in Figure 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 mitigation.
- 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 No (0) dust trigger alerts were recorded during the monitoring period (May 2024).
- 1.1.9 Data capture was below 90% for the 2B2002 monitor due to erroneous readings that were removed. The monitor was swapped out for investigation and a battery refresh occurred on 23rd May 2024.
- 1.1.10 There were no (0) complaints received during the reporting period (May 2024).

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within WDC



Legend

- Dust Monitor
- District Borough Unitary Boundaries

Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2023
Contains data from OS Zoomstack

Map Number

Map Name
**Monitoring Locations
In WDC (Sheet 1)**

Warwick District Council

HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

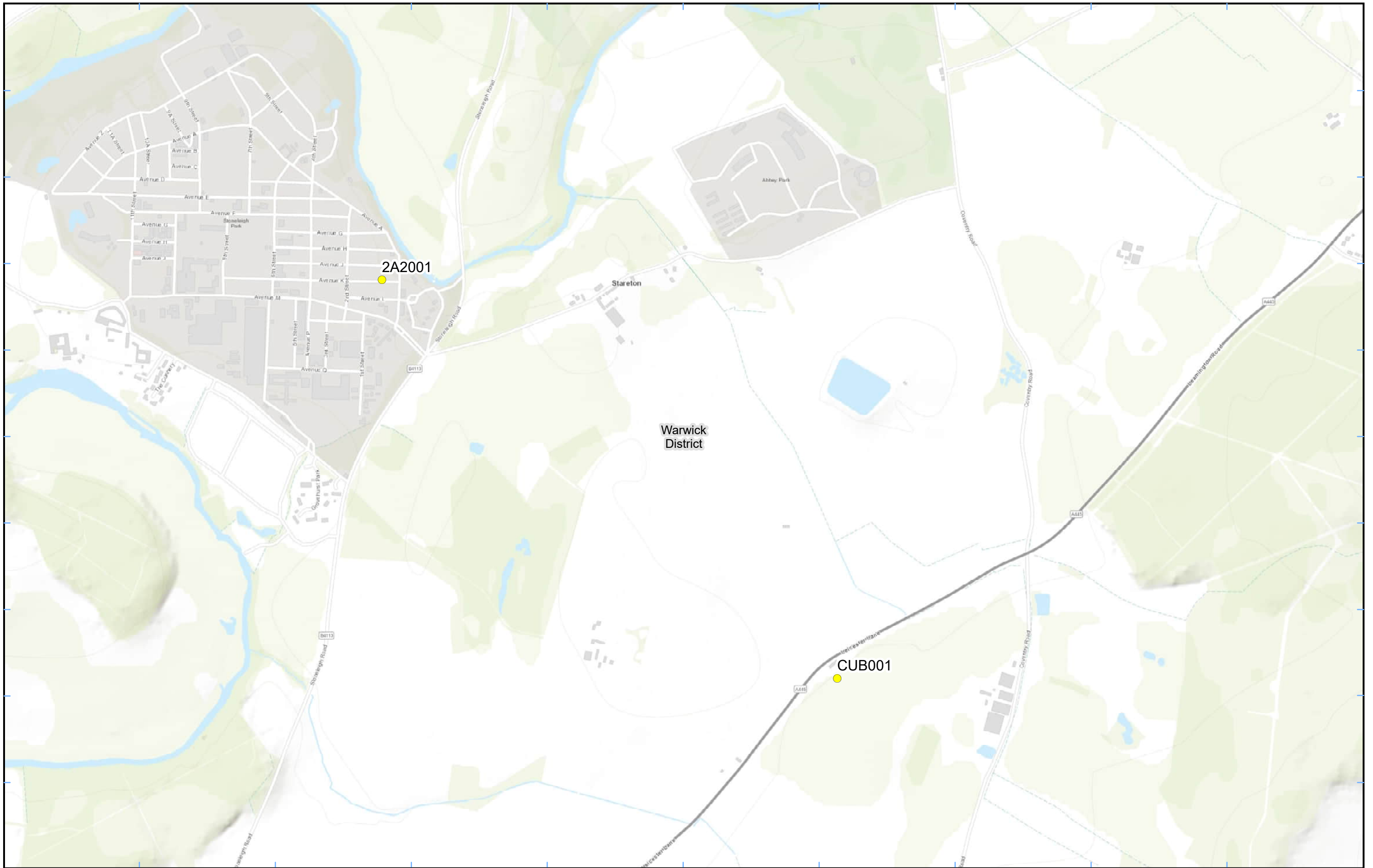
Scale at A3: 1:11,000



Metres

© Crown copyright and database rights 2024.
Ordnance Survey Licence Number 100049190.

Doc Number:


Date: 26/03/24



Legend
 Dust
 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

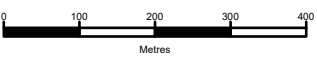
Map Number
 Map Name
**Monitoring Locations
 In WDC (Sheet 2)**
 Warwick District Council

 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

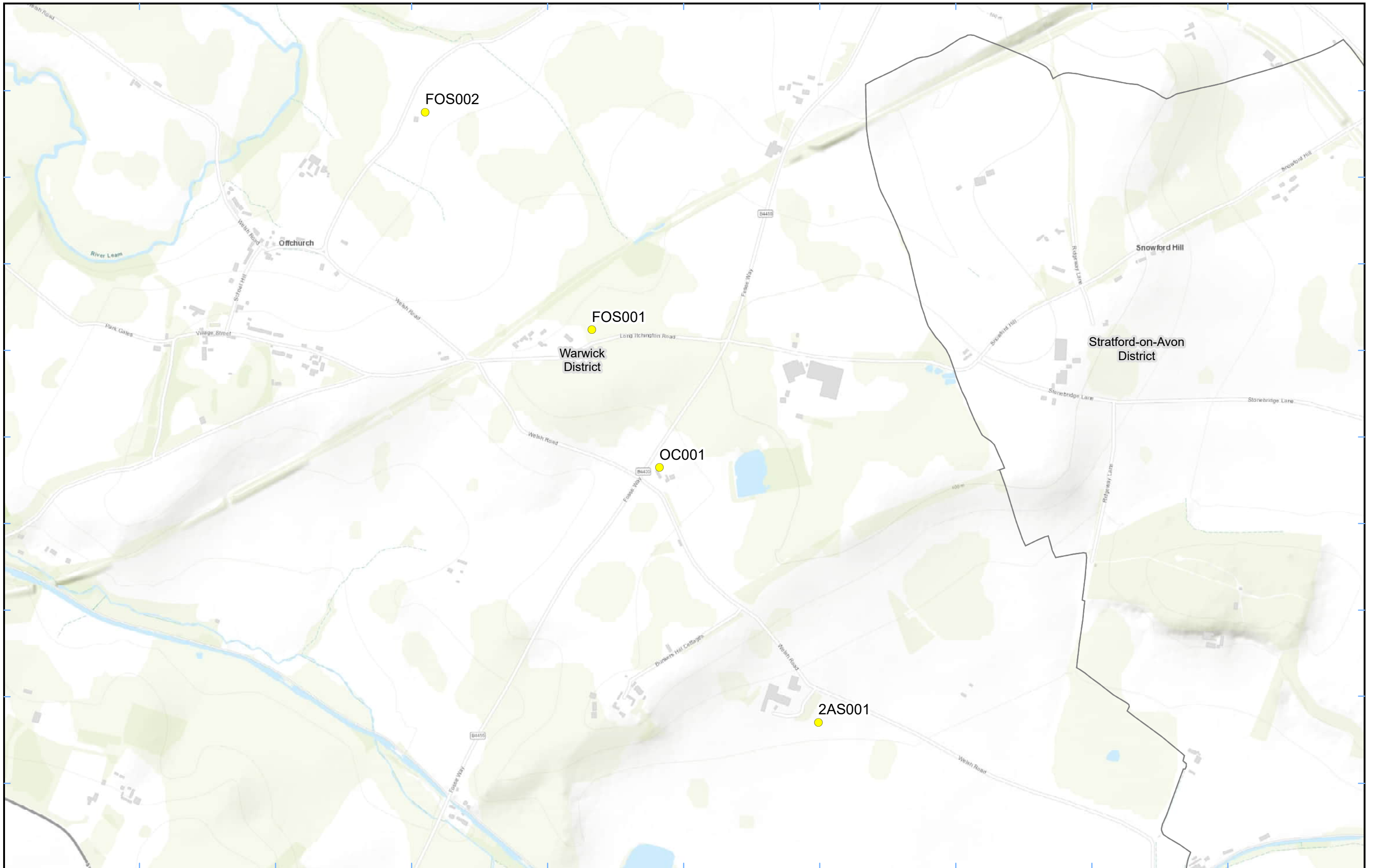
Registered in England. Registration number 06791686.
 Registered office: 2 Snowhill, Queensway,
 Birmingham B4 6GA.



© Crown copyright and database rights 2023.
 Ordnance Survey Licence Number 100049190.

Scale at A3: 1:10,000




Doc Number: Date: 06/07/23



Legend
 Dust
 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
**Monitoring Locations
 In WDC (Sheet 3)**
 Warwick District Council

 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.

Registered in England. Registration number 06791686.
 Registered office: 2 Snowhill, Queensway,
 Birmingham B4 6GA.

© Crown copyright and database rights 2023.
 Ordnance Survey Licence Number 100049190.

Scale at A3: 1:10,000



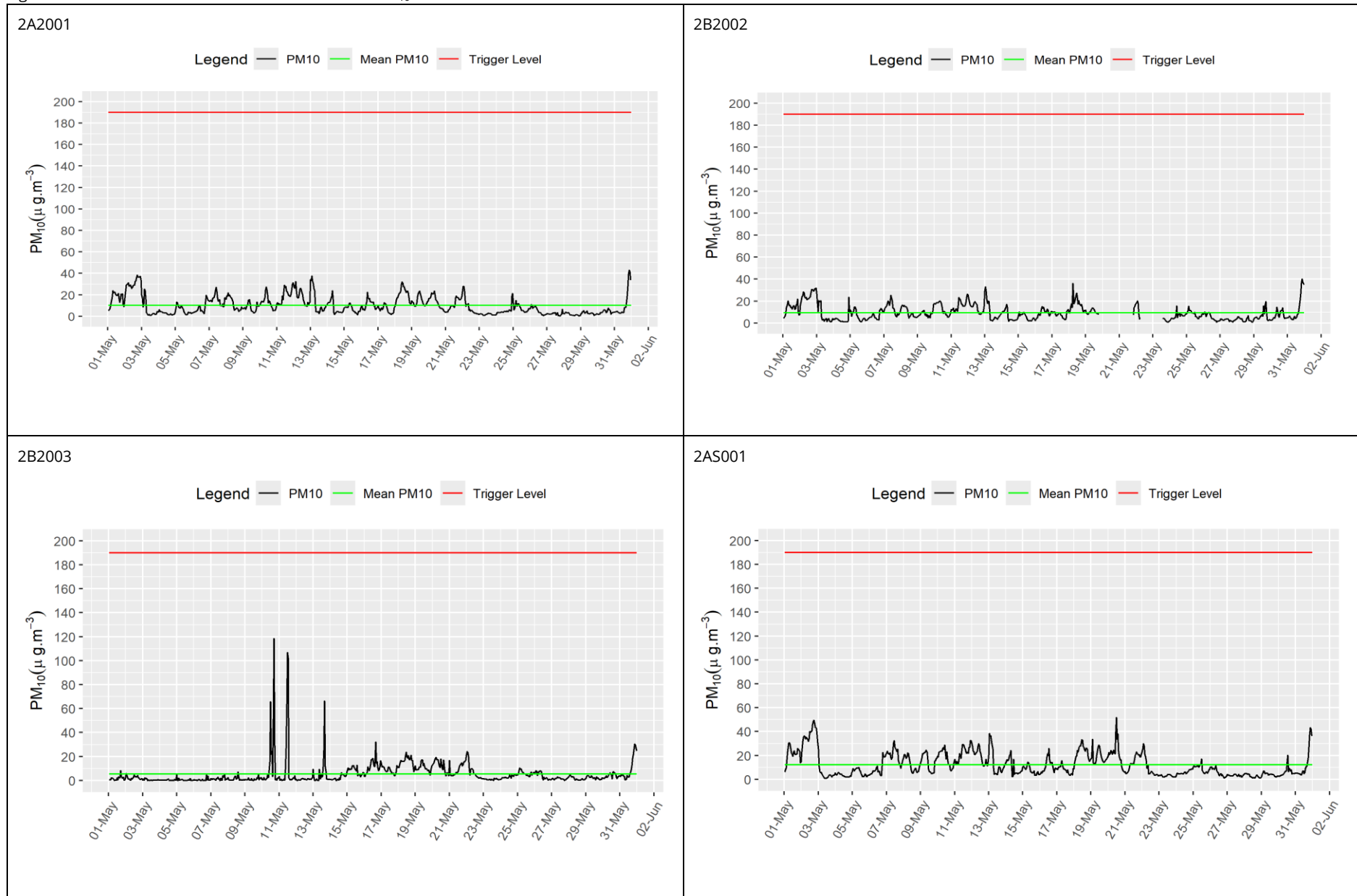
Doc Number: **Date: 06/07/23**

Appendix B – Dust Monitoring Results

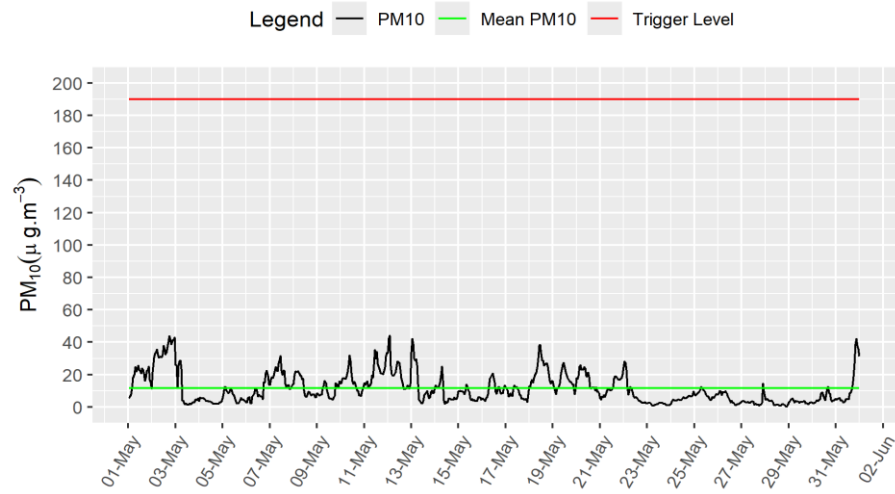
Table 1: Dust Monitoring Locations and Results

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 (%)
2A2001	432798, 271434	East Lodge, Stoneleigh Park	M	Yes	No	10.2	0.2	43.1	0	100.0
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	9.4	0.4	40.3	0	89.5
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	5.5	0.1	118.4	0	98.7
2B1001	430183, 273698	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	No	11.6	0.4	44.3	0	100.0
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	No	12.4	0.9	51.7	0	100.0
OC001	437111, 265242	Springhill Cottages, Offchurch Cutting	M	Yes	No	15.1	1.0	68.8	0	100.0
CUB001	434124, 270273	Sublot 2A2, at Furzon Hill Cottages	L	Yes	No	10.2	0.4	40.6	0	100.0
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	10.0	0.4	43.7	0	100.0
FOS002	436429, 266276	Valley Fields, Fosse Way Main	M	Yes	No	10.5	0.1	40.5	0	100.0
BGT004	426972, 275882	301 Cromwell Lane, Burton Green	M	Yes	N/A	17.1	0.9	61.1	0	100.0

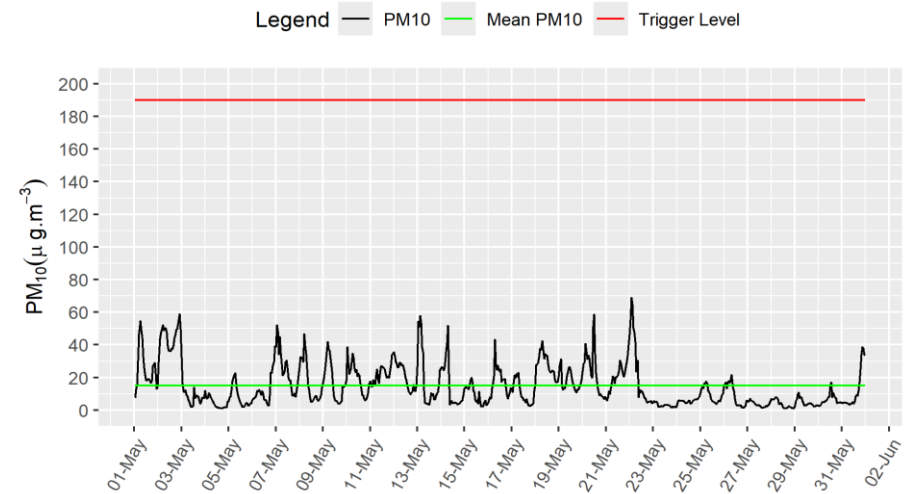
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



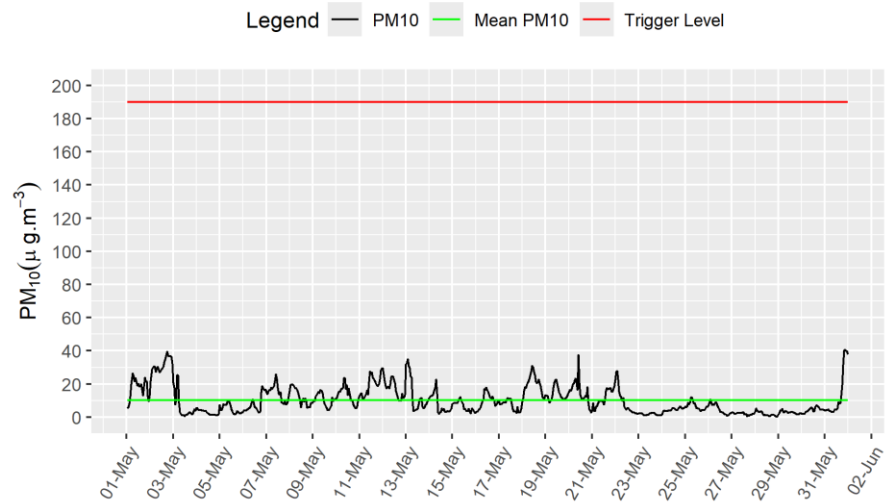
2B1001



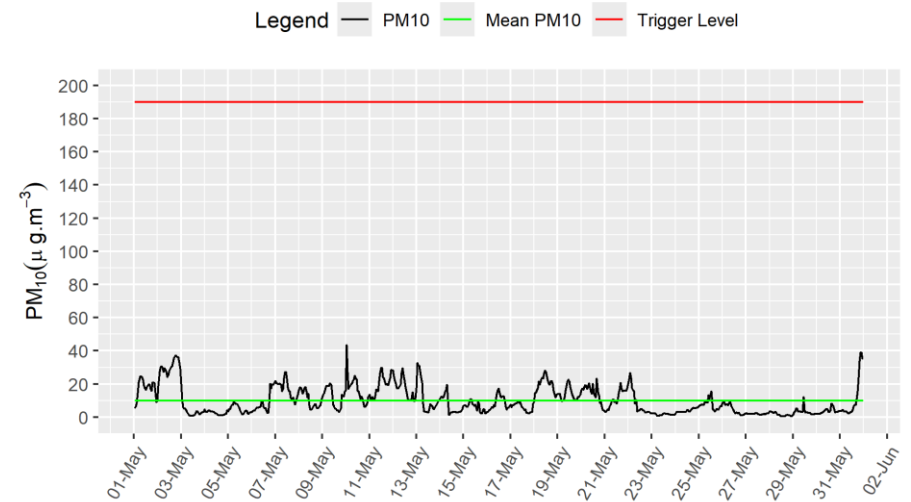
OC001



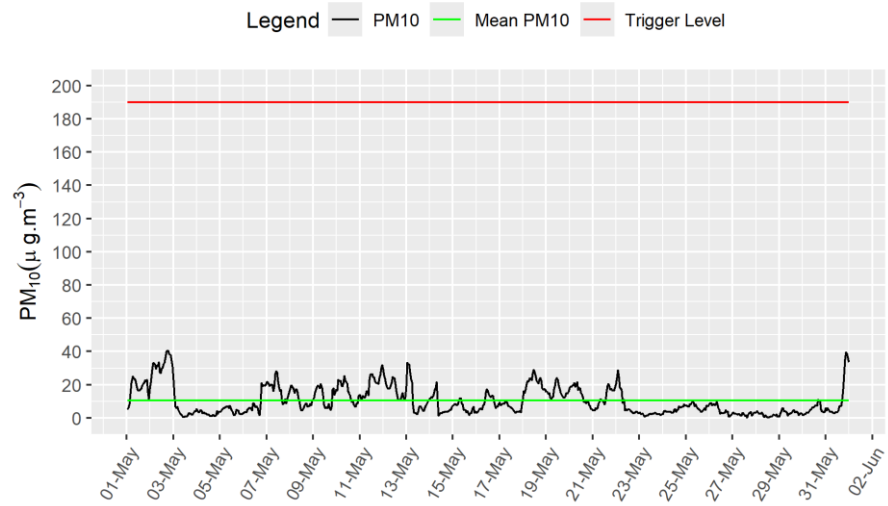
CUB001



FOS001



FOS002



BGT004

