

## Air Quality and Dust Monitoring Monthly Report – July 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](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 within Warwick District Council (WDC) during July 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](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 to 3, include:

## **Sublot 2A2**

### Fosse Way Main – Long Itchington Road

- Operation of Roadhead at Fosse Way Compound.
- Temporary works platforms and bulk excavation by earthworks for Greenway Green Bridge.
- Concrete blinding to east abutment base of Greenway Green Bridge.
- Base (abutment AB3) reinforcement, formwork and concrete to Offchurch Green Bridge.
- Base (abutment AB0) reinforcement.
- Reinforcement to Pier 2 and concrete to pier at Fosse Way Overbridge.
- Concrete finishing and remedials to Abutments and concreting of bearing base plates at Fosse Way Overbridge.
- Trial holes and surveys around Welsh Road crossroads for new underpass.
- Maintenance of haul roads and footpaths around Fosse Way Overbridge.

### Stoneleigh Park – East Lodge

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

- Installation of temporary fencing including hoardings.
- Earthworks.
- Structures.

#### Cubbington Compound Worksite

- No works occurred here.

#### **Burton Green Tunnel (Sublot 2B2)**

- Tunnel excavation using diggers.
- SB3 (joint venture between Bachy Soletanche and Balfour Beatty Ground Engineering) Hydrofraise piling works.
- Concrete pour.

#### **Sublot 2AS**

##### Offchurch Cutting – Welsh Road Farm

- Welsh Road Underbridge Blackjack to wingwalls and backwashing to soffit of deck.
- Installation of permanent drainage pipes and chambers to Grand Union Canal Embankment.
- Earthworks to Welsh Road realignment construction and ongoing laying of capping stone layer.
- Pile breakdown at Longhole Viaduct north and south side of canal.
- Concrete blinding to internal base of cofferdams.
- Commence steel reinforcement to South AB3 abutment.

##### Offchurch Cutting – Valley Fields

- Bulk earthworks to River Leam Embankment area.
- Installation of permanent drainage pipes and manholes at River Leam Embankment.
- Dig and replace and soil stabilisation to Ash beds cutting.
- Divert footpath W129y and realign haul road.
- Backfill and testing works to new sewer (Severn Trent) north of Hunningham Road.
- Haul road realignment to south side of Hunningham Road.
- Demobilisation of plant and cabins by Severn Trent on completion of water main diversion.
- Construction of steel reinforcement and concrete to protection slab over sewer north of Hunningham Road.

#### **A429 Kenilworth Road Overbridge (Sublot 2B1)**

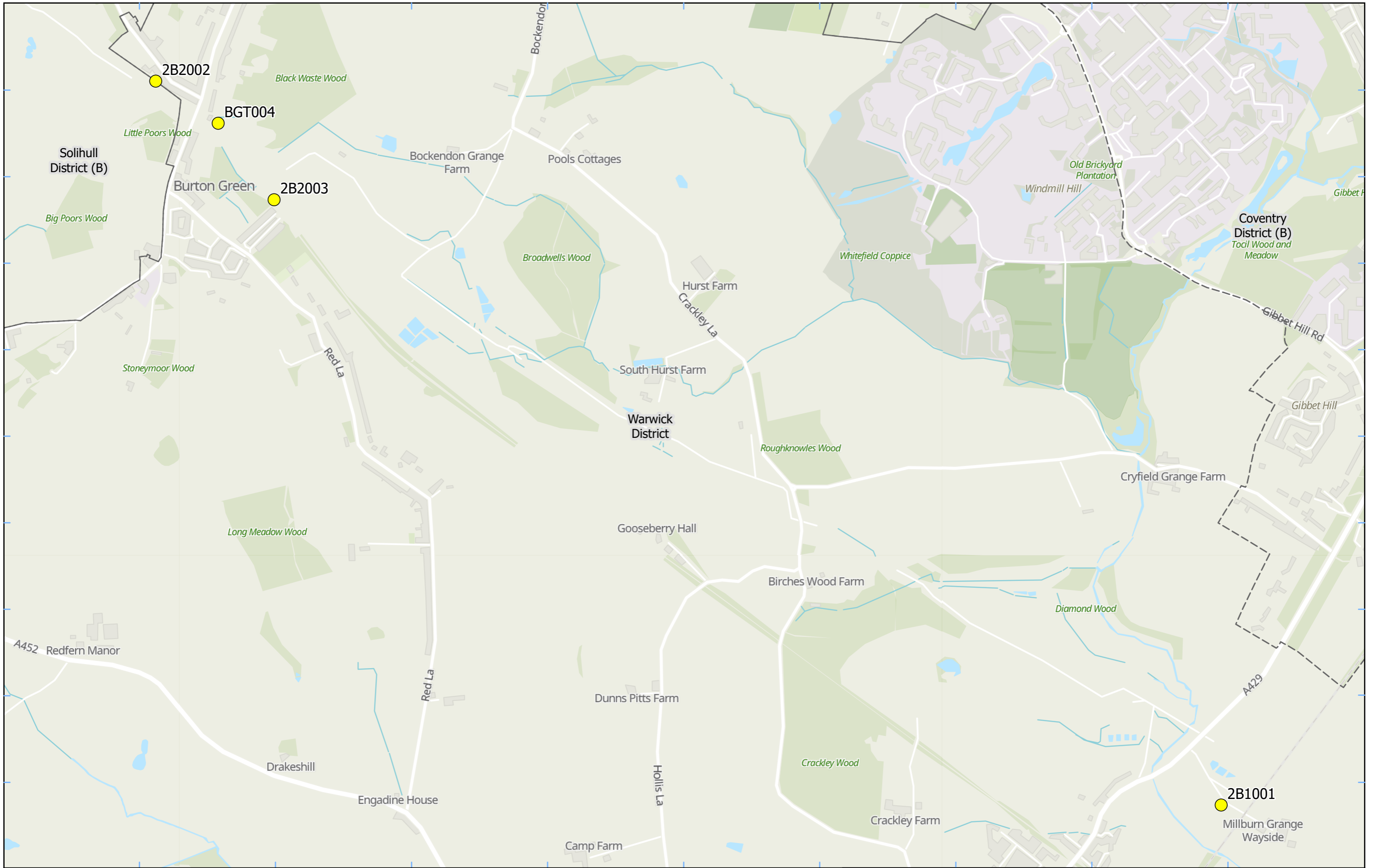
- No works occurred here.

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 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 No (0) dust trigger alerts were recorded during the monitoring period (July 2024).
- 1.1.9 Data capture was below 90% for multiple monitors:
- 2B1001 was showing low data capture, so monitor calibration was performed on 24<sup>th</sup> July 2024. The monitor is scheduled to be moved on 13<sup>th</sup> August 2024.
  - The low data capture at monitor FOS002 was caused by an issue with the monitor. A battery refresh is scheduled for 9<sup>th</sup> August 2024, and a field calibration is scheduled for 28<sup>th</sup> August 2024.
  - A full calibration was performed on monitors 2B2003, 2B1001 and CUB001 on the 23<sup>rd</sup>, 24<sup>th</sup> and 25<sup>th</sup> July 2024 respectively, which limited data capture during the process.
- 1.1.10 There were no (0) complaints received during the reporting period (July 2024).

# Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within WDC



**Legend**

- Dust Monitor
- District Borough Unitary Boundaries

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Contains data from OS Zoomstack

Map Number

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

**Warwick District Council**

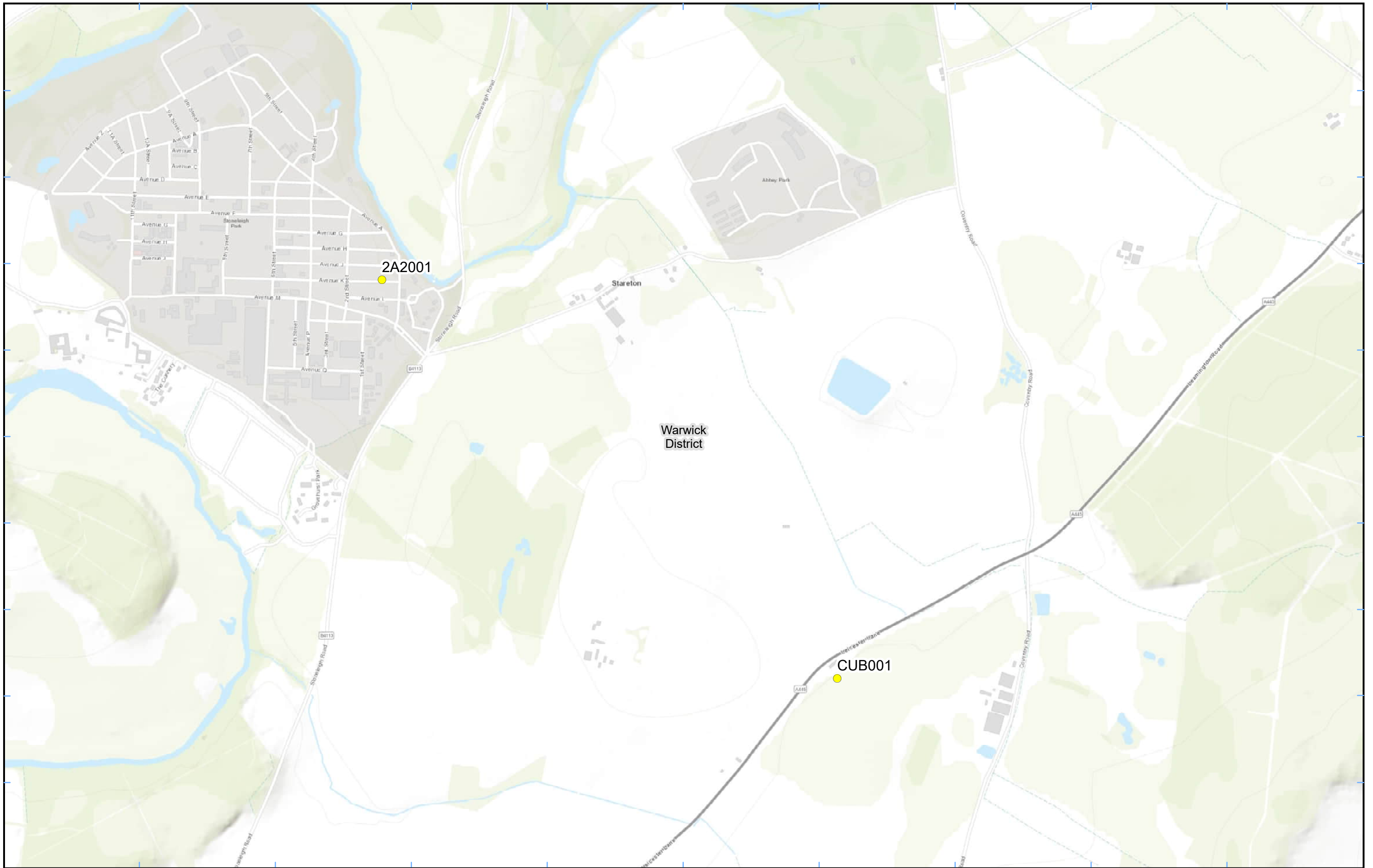
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**Legend**  
 Dust  
 District Borough Unitary Boundaries

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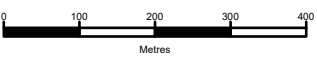
Map Number  
 Map Name  
**Monitoring Locations  
 In WDC (Sheet 2)**  
 Warwick District Council

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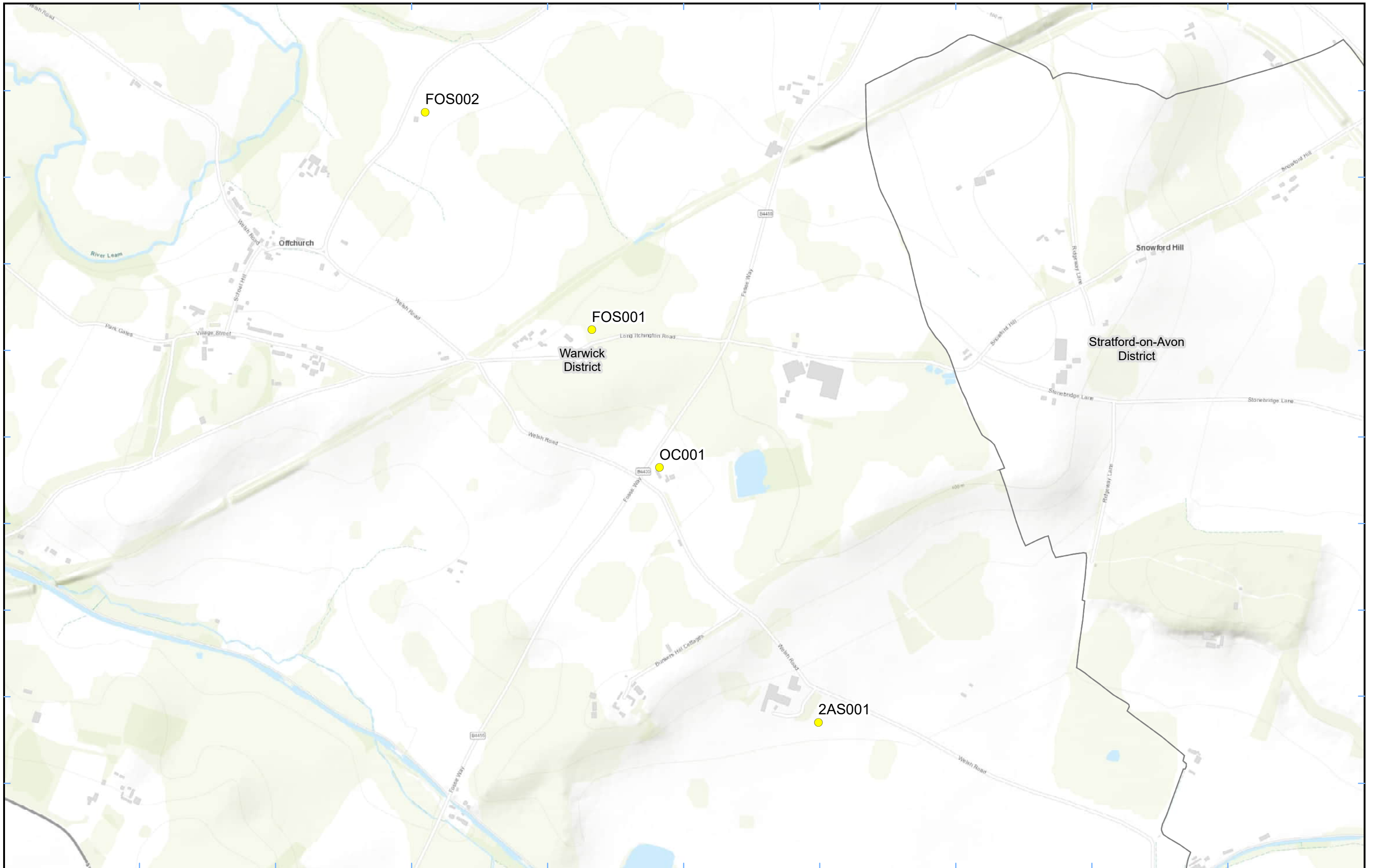
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**Legend**  
 Dust  
 District Borough Unitary Boundaries

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Map Number  
 Map Name  
**Monitoring Locations  
 In WDC (Sheet 3)**  
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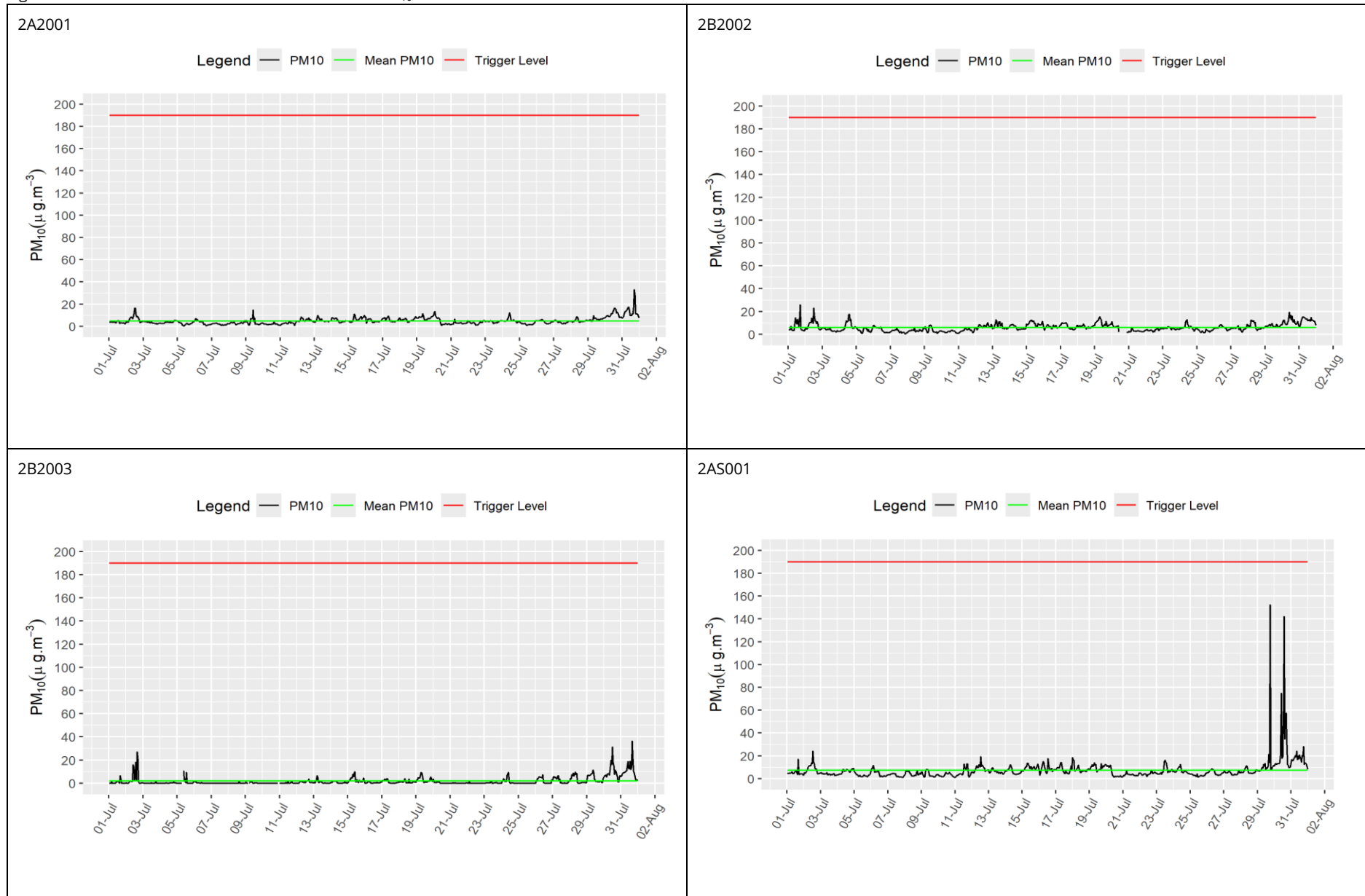
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## Appendix B – Dust Monitoring Results

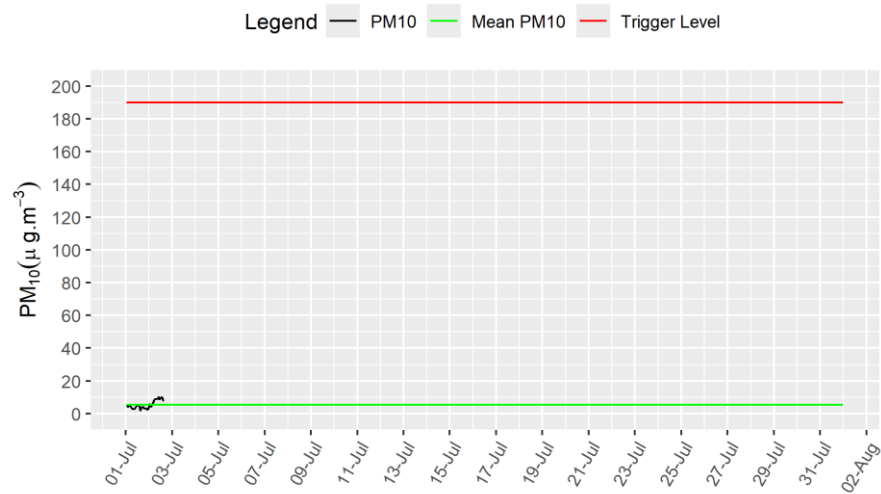
Table 1: Dust Monitoring Locations and Results

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 <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 (%)
2A2001	432798, 271434	East Lodge, Stoneleigh Park	M	Yes	No	4.9	0.2	33.1	0	100.0
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	6.1	0.4	25.8	0	98.7
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	1.8	0.1	36.5	0	68.3
2B1001	430183, 273698	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	No	5.5	2.1	10.3	0	5.2
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	No	7.4	1.2	152.3	0	100.0
OC001	437111, 265242	Springhill Cottages, Offchurch Cutting	M	Yes	No	5.5	0.8	23.1	0	100.0
CUB001	434124, 270273	Sublot 2A2, at Furzon Hill Cottages	L	Yes	No	1.1	0.1	22.8	0	97.8
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	4.9	0.1	25.5	0	98.8
FOS002	436429, 266276	Valley Fields, Fosse Way Main	M	Yes	No	3.9	0.1	16.9	0	60.8
BGT004	426972, 275882	301 Cromwell Lane, Burton Green	M	Yes	No	8.0	0.8	44.2	0	100.0

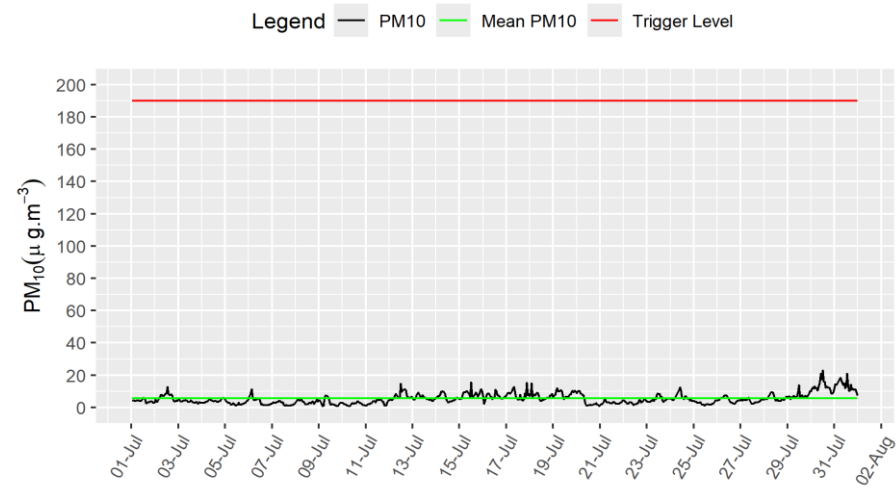
Figure 4: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors



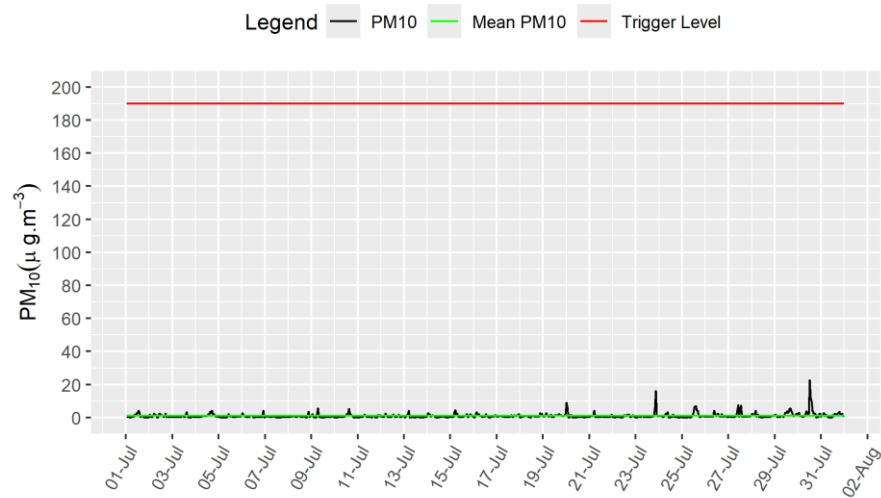
2B1001



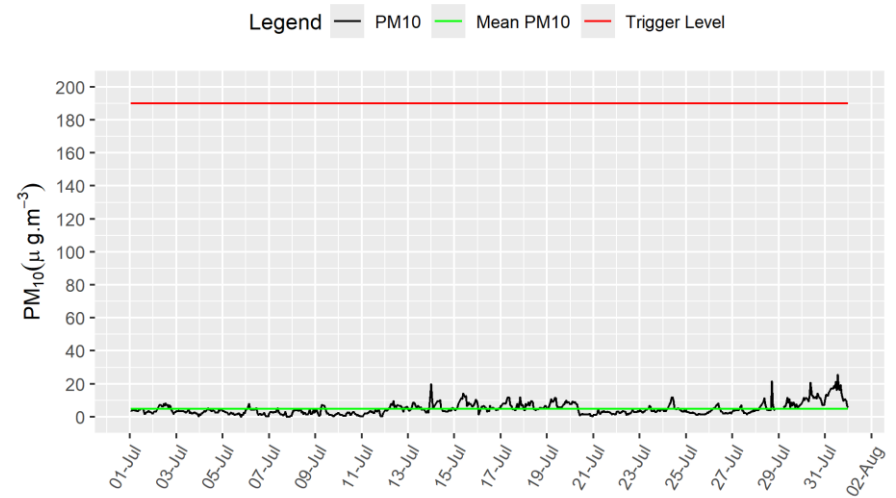
OC001



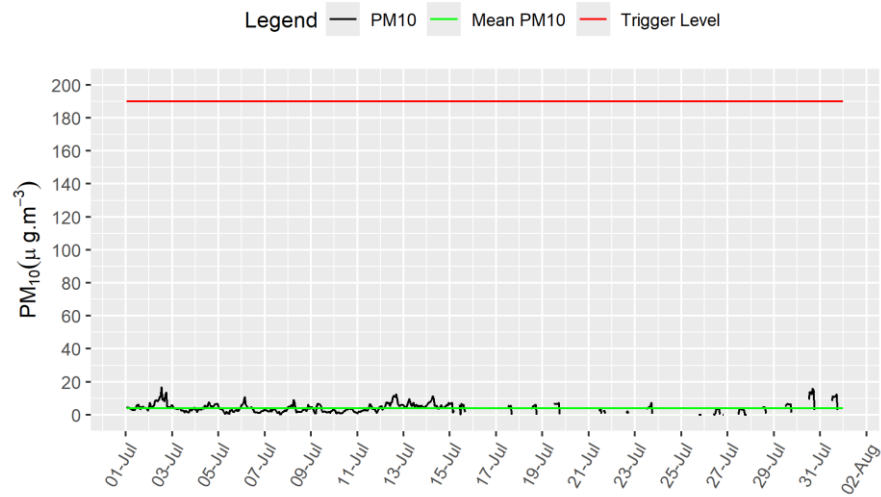
CUB001



FOS001



FOS002



BGT004

