

## Air Quality and Dust Monitoring Monthly Report – June 2023

Warwick District Council



## Department for Transport

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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 during June 2023.
- 1.1.2 Figure 1 to Figure 3 in Appendix A indicates the current worksites together with the dust monitoring locations for June 2023.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report 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 Figure 3, include:

## **Sublot 2A2**

### Severn Trent:

- Trenching works for water main diversion
- Complete earthworks embankment for piling works at Hunn Rd
- Piling works to Hunn Rd OB
- Pile testing
- Trenching works for sewer diversion at River leam
- Move stockpiles for STW diversion works
- Bulk earthworks to River leam Embankment area
- Excavate around completed piles

### **East Lodge Stoneleigh Park site**

- Operational haul road.
- Asbestos removal.
- Variable head testing.
- Haul road maintenance.
- Excavation works.
- Construction of north accommodation overbridge.

### Cubbington:

- Welsh Rd UB Installation of reinforcement to wing wall bases, concrete of bases and concrete repairs

- Placement of fill from Conveyor belt (from SL1) to form Grand Union Canal (GUC) embankment
- Construction concrete slab to south side of canal
- Offchurch Cutting topsoiling and drainage blanket
- Tarmac roadways to Fosse Way Road head

### **Sublot 2AS**

#### Severn Trent:

- Trenching works for water main diversion
- Complete earthworks embankment for piling works at Hunn Rd
- Piling works to Hunn Rd OB
- Pile testing
- Trenching works for sewer diversion at River leam
- Move stockpiles for STW diversion works
- Bulk earthworks to River leam Embankment area
- Excavate around completed piles

### **Sublot 2B1**

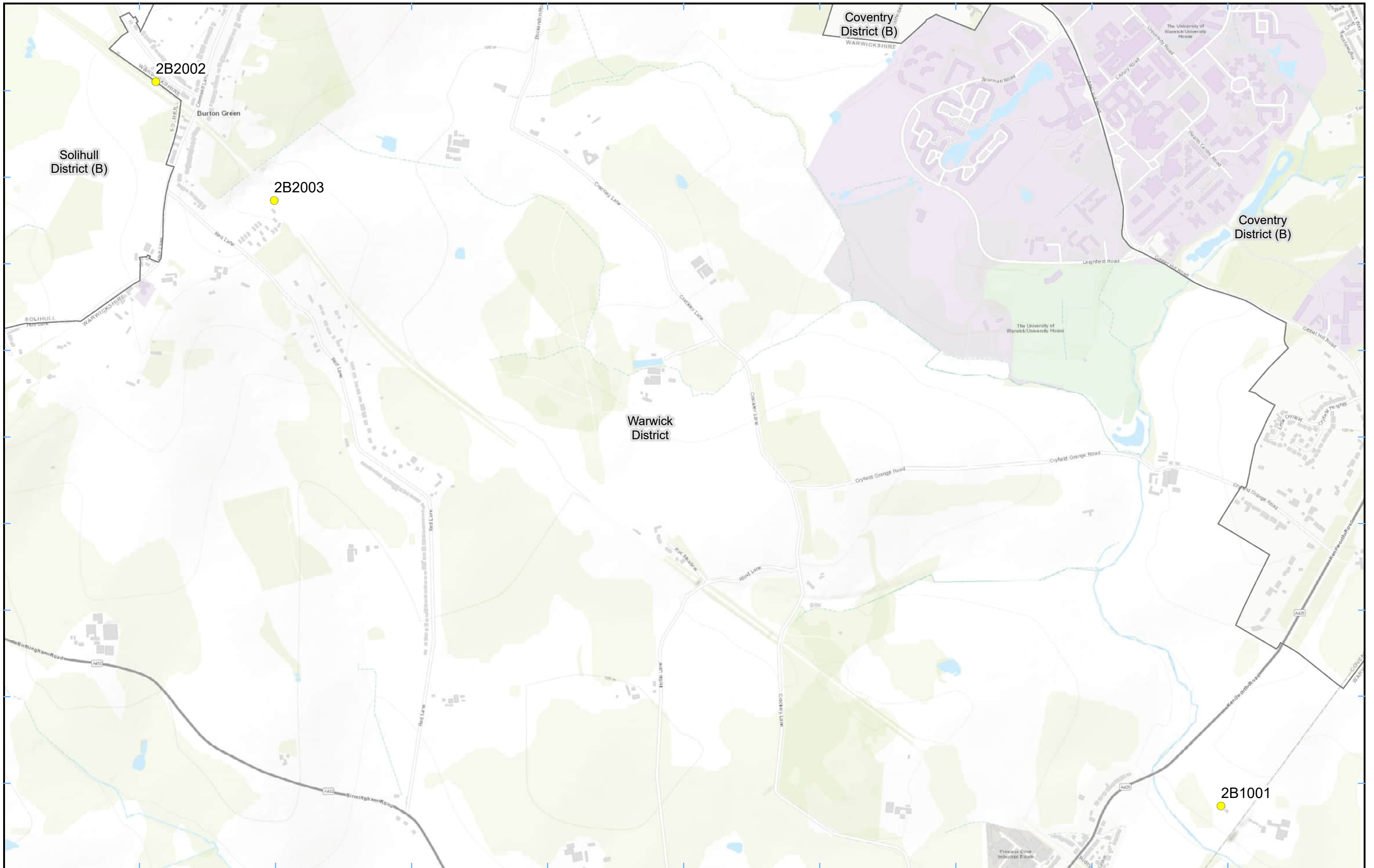
- Earthwork excavation, excavators, ADTs, rollers, dumpers.
- De-vegetation works.
- Vehicle movement on haul road and excavation works 200 metres away.

- 1.1.5 Nine (9) dust monitors are installed around 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, 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 (June 2023).
- 1.1.9 Data capture was below 90% for multiple monitors in June 2023 due to monitor relocation, monitor replacement, and vegetation cover.

1.1.10 There were no (0) complaints received during this reporting period (June 2023).

# Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 3: Worksites and Monitoring Locations within WDC



**Legend**  
 Dust  
 District Borough Unitary Boundaries

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

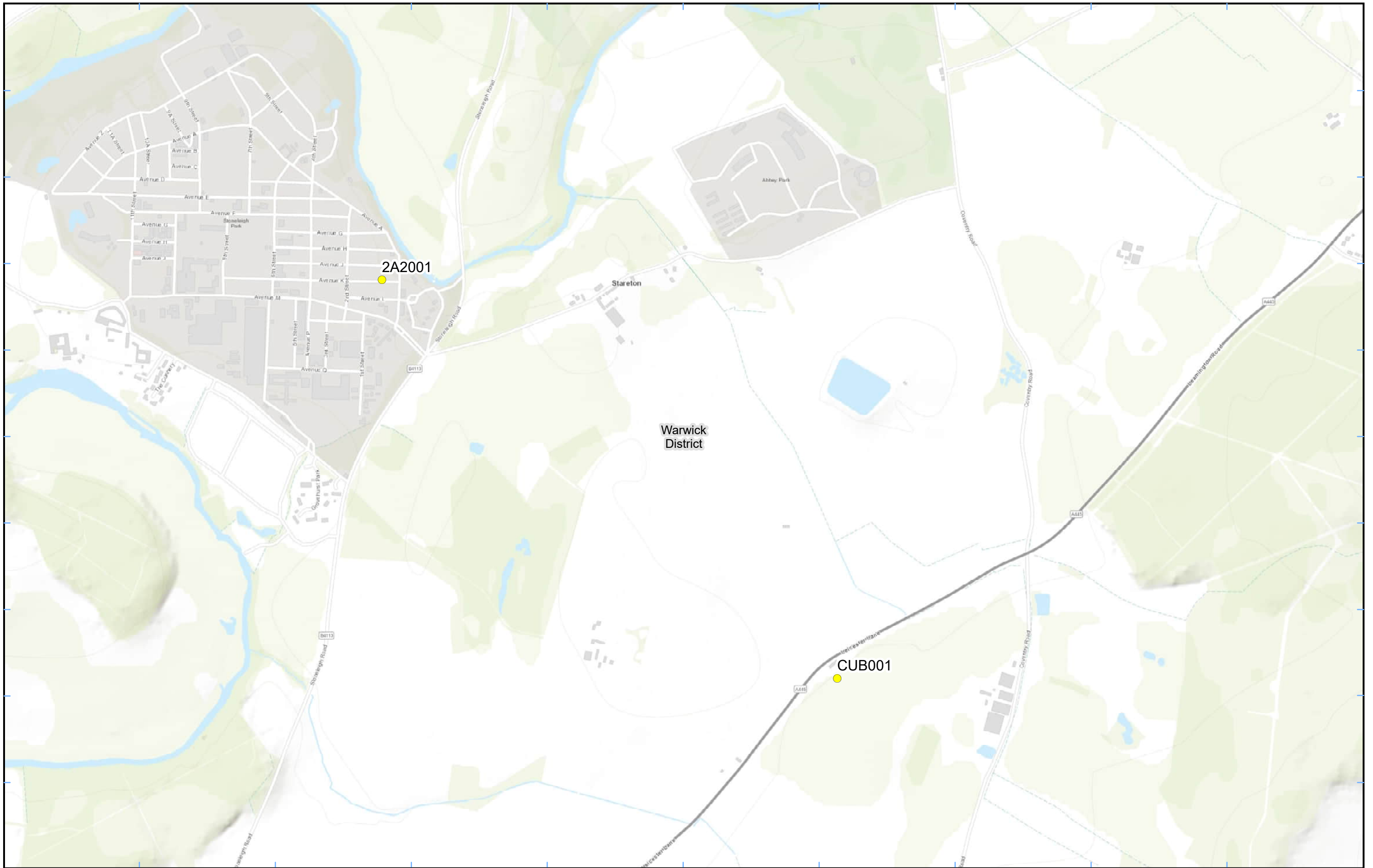
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**Legend**  
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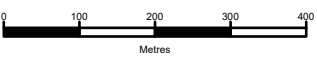
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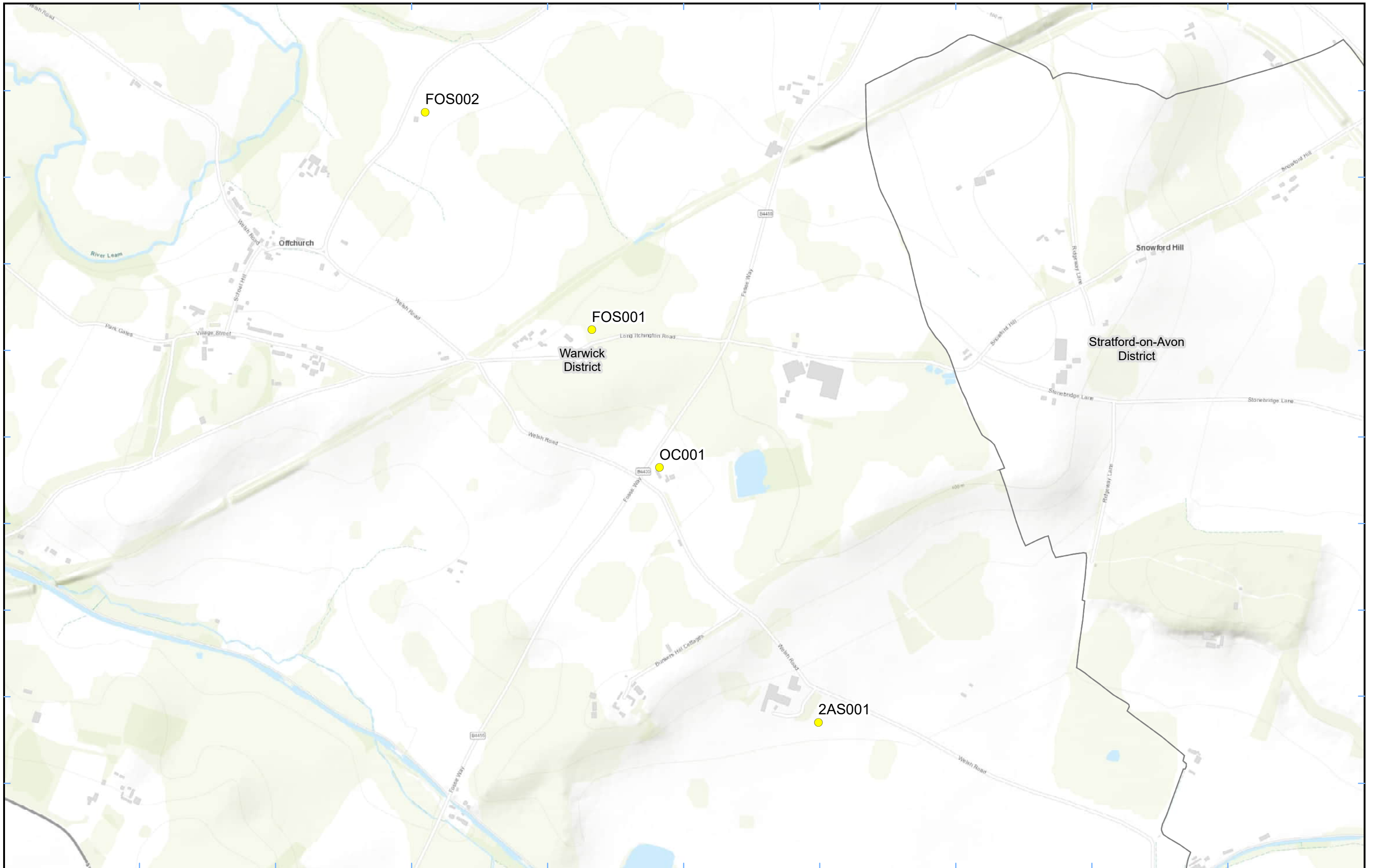
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Map Number  
 Map Name  
**Monitoring Locations  
 In WDC (Sheet 3)**  
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## Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and June 2023 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	N	7.7	0.0	95.1	0	100.0
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	N	5.0	0.0	25.0	0	59.9
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	N	10.7	1.5	171.8	0	100.0
2B1001	430183, 273698	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	N	9.9	1.0	47.6	0	100.0
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	N	6.3	1.3	16.8	0	34.4
OC001	437111, 265242	Springhill Cottages, Offchurch Cutting	M	Yes	N	10.8	2.2	73.7	0	100.0
CUB001	434124, 270273	Sublot 2A2, at Furzon Hill Cottages	M	Yes	N	5.7	1.7	14.6	0	35.1
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	L	Yes	N	9.7	1.6	55.6	0	100.0
FOS002	436429, 266276	Valley Fields, Fosse Way Main	L	Yes	N	10.2	1.6	39.7	0	100.0

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

