

Air Quality and Dust Monitoring Monthly Report – August 2023

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 August 2023.
- 1.1.2 Figure 1 to Figure 3 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 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, Figure 1 to Figure 3 include:

Sublot 2A2

East Lodge Stoneleigh Park

- Operational haul road, borehole monitoring, Stareton lane road realignment works, commenced construction of piling platform on south side of Stoneleigh road; and
- Steel fixing and shuttering at the north accommodation overbridge, Stoneleigh north pump test, installation of temporary bridge at river avon, general site maintenance.

The Cubbington Compound

- Earthworks: Cutting batters at Cubbington cutting; and
- Structures: General site maintenance; haul road construction, testing dewatering wells at river leam, vegetation clearance, fencing.

Sublot 2B2

- Monitor awaiting relocation; and
- Excavation and utility works.

Sublot 2AS

- Welsh Rd UB Installation of reinforcement to Wall 1 and 2 and install scaffold access;
- Welsh Rd underbridge - repair to concrete bases 1B and 4;
- Placement of fill around Welsh Rd Underbridge to top of base level;
- Veg clearance to south side of canal;
- Offchurch Cutting topsoiling and drainage blanket;
- Install cabins to Road Head;
- Fencing and drainage to Road head;
- Bulk excavation and construction of piling platforms and access roads to Fosse Way Overbridge;
- Piling works to Fosse Way OB;
- Severn Trent - trenching works and pipe install for water main diversion;
- Construct protection slabs over water main;
- Pile cap construction and concrete of bases P1 and P2;
- Earthworks to embankments construction at Hunningham Rd OB;
- Move stockpiles and re-align haul road for STW diversion works;
- Bulk Earthworks to River Leam Embankment area; and
- Veg clearance to Hunningham Rd Verges.

Sublot 2B1

- Excavation of Kenilworth Curring. Box push preparation including large volumes of material haulage and stockpiling
- 24h: Box push using hydraulics. Large volumes of plant movements. Excavation of existing railway. Material haulage.
- Drainage system clearance using a small excavator. Road head and laydown maintenance.

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.

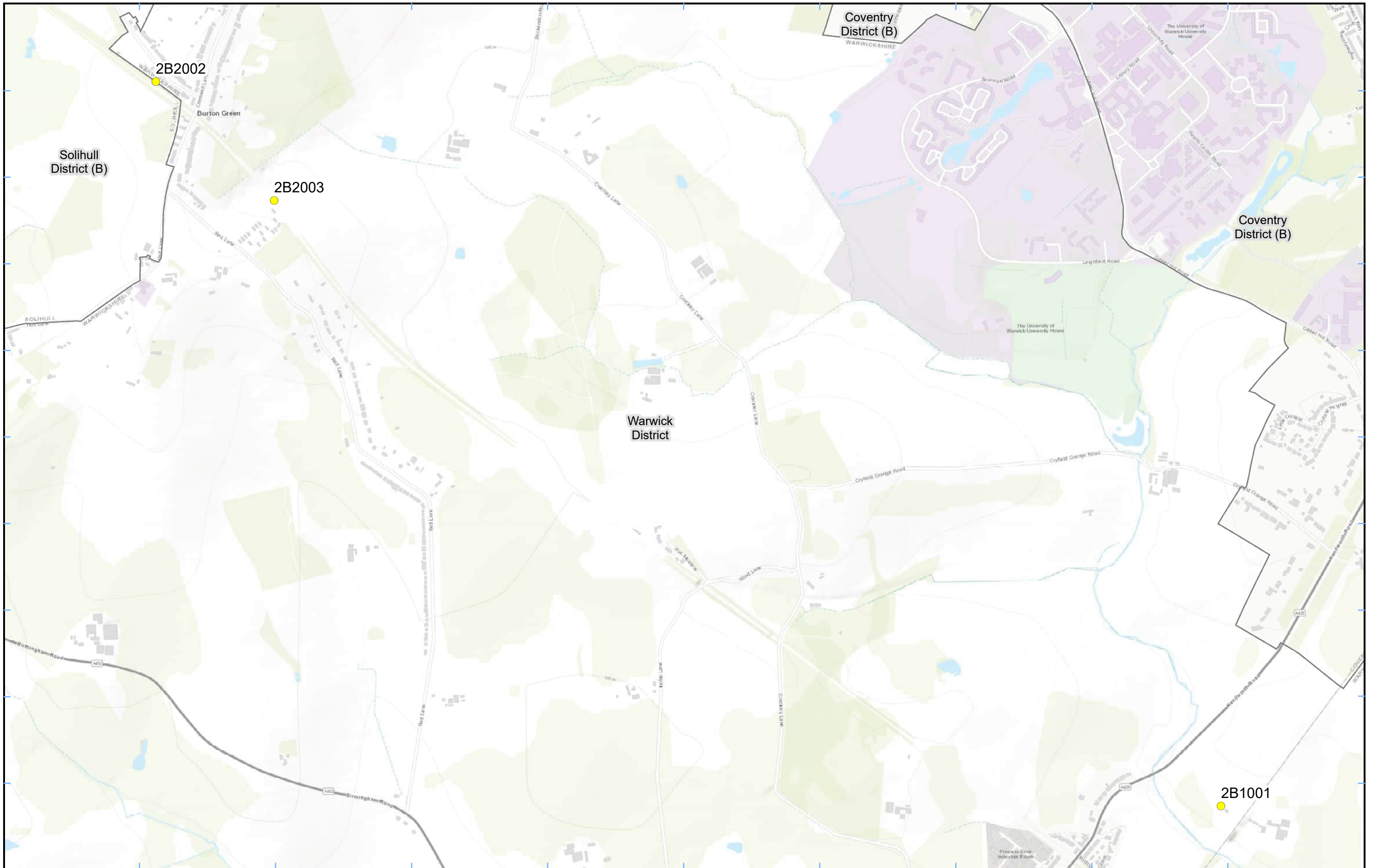
1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, in Figure 4. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency

(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 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 No (0) dust trigger alerts were recorded during the monitoring period (August 2023).
- 1.1.9 Data capture was below 90% for monitor 2B1001 due to an issue with the solar controller, which was rectified on 24th August. Data capture for monitor 2B2003 was affected by a power supply issue, which was rectified on 4th August.
- 1.1.10 There were no (0) complaints received during this reporting period.

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

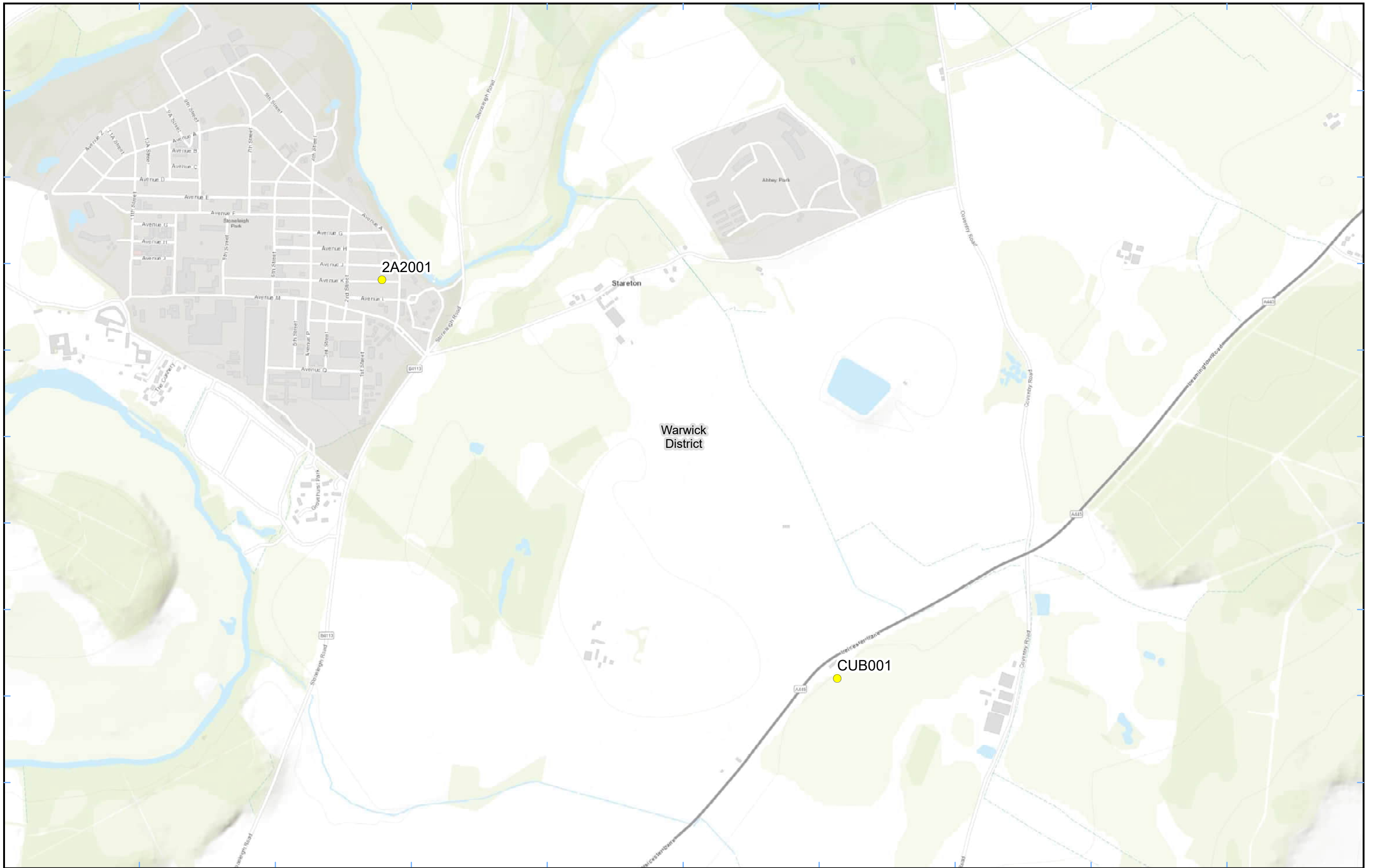
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Legend
 ● Dust
 - - - District Borough Unitary Boundaries

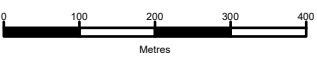
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Map Number
 Map Name
**Monitoring Locations
 In WDC (Sheet 2)**
 Warwick District Council

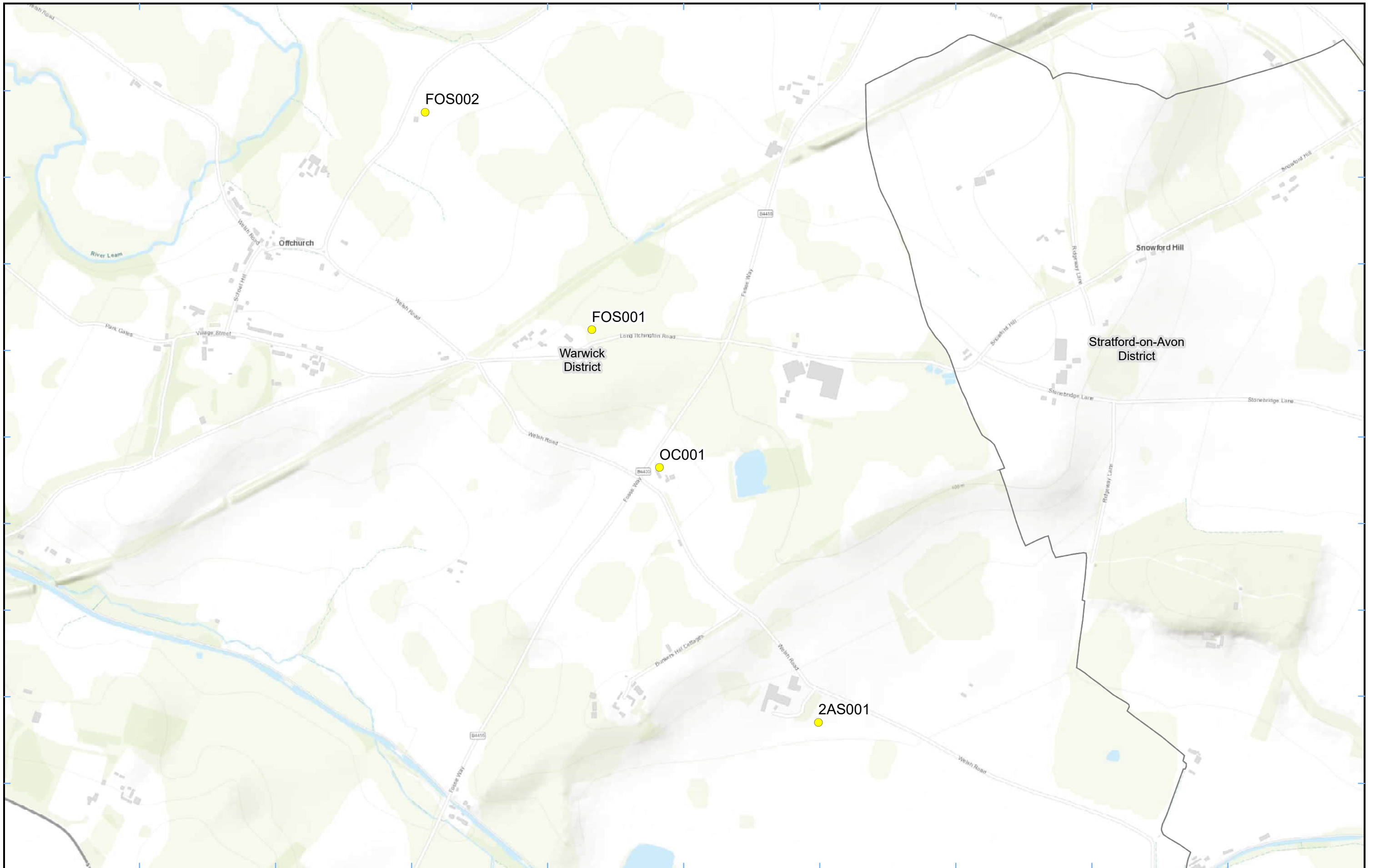

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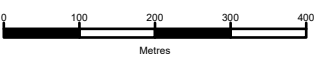
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Map Number
 Map Name
**Monitoring Locations
 In WDC (Sheet 3)**
 Warwick District Council


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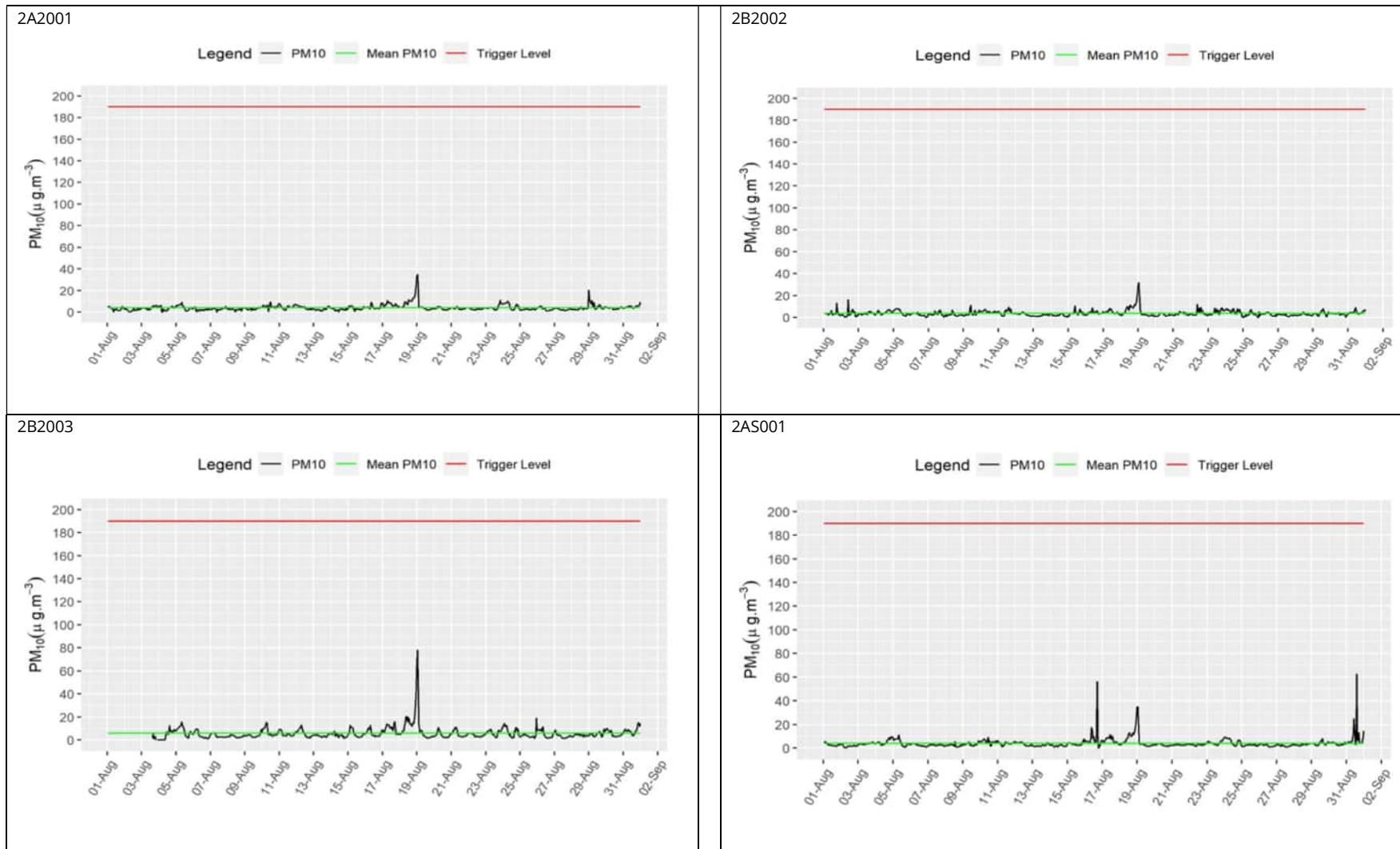
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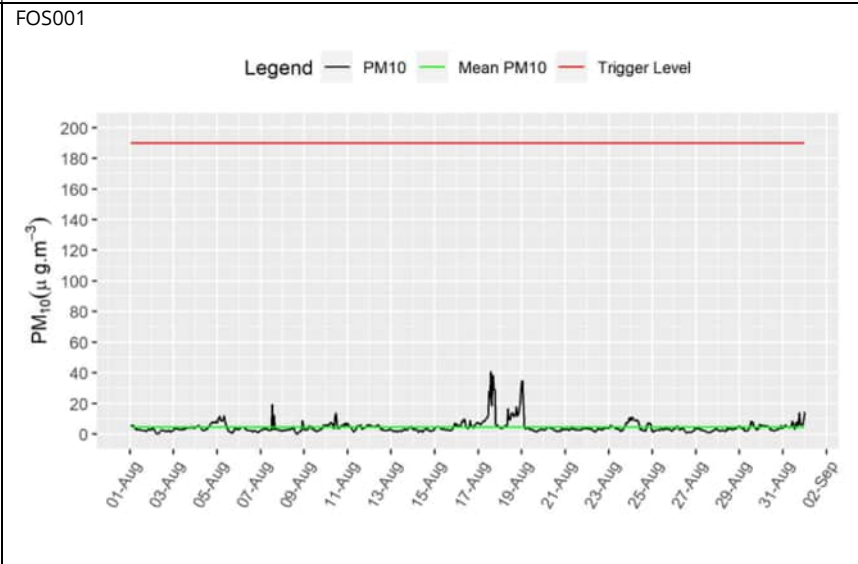
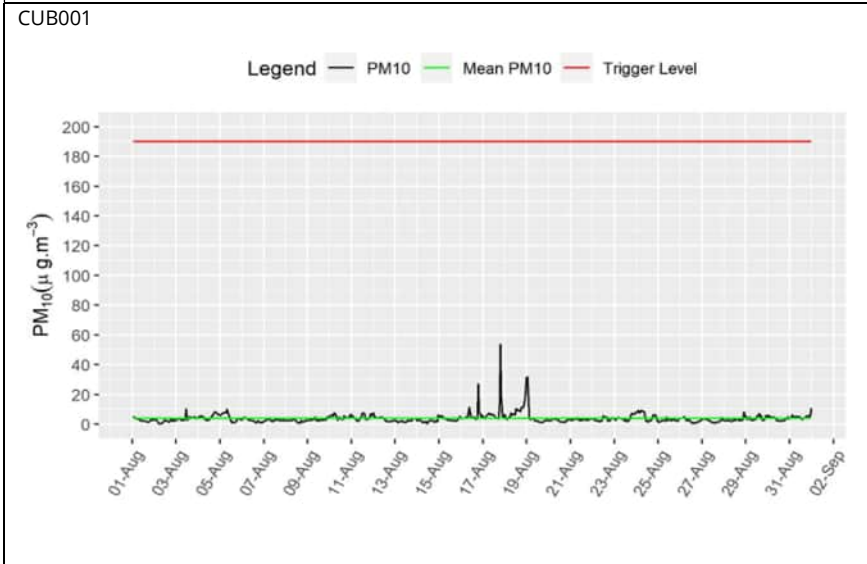
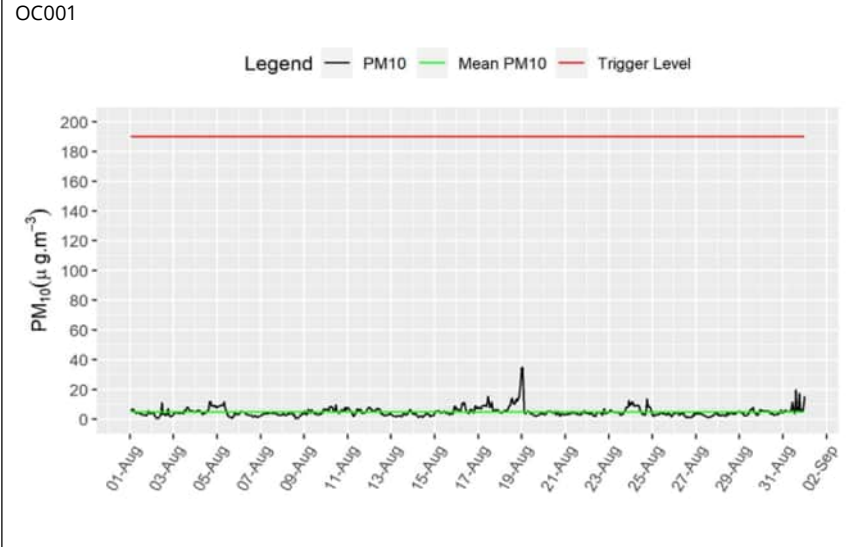
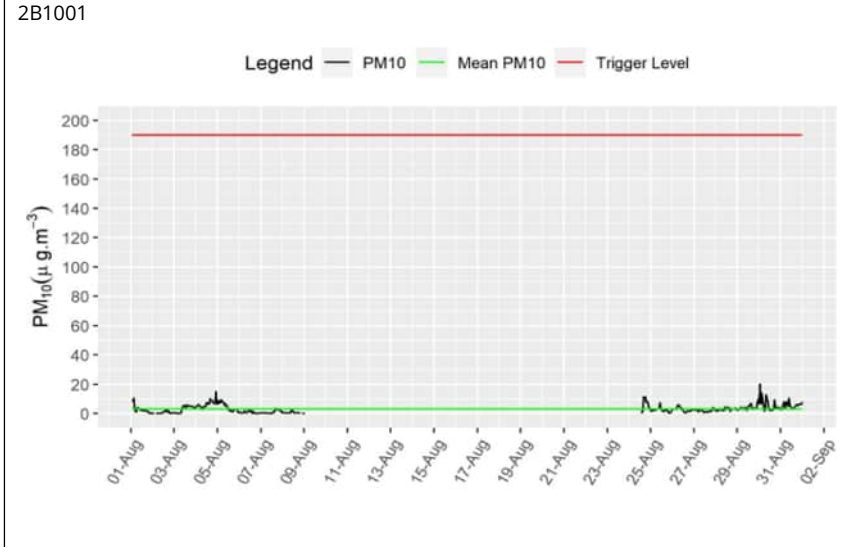
Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and August 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 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	N	4.0	0.1	34.8	0	100.0
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	N	3.7	0.0	31.7	0	100.0
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	N	5.8	0.0	78.1	0	91.7
2B1001	430183, 273698	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	N	3.1	0.0	20.0	0	50.1
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	M	Yes	N	4.1	0.0	62.6	0	100.0
OC001	437111, 265242	Springhill Cottages, Offchurch Cutting	M	Yes	N	4.9	0.5	34.8	0	100.0
CUB001	434124, 270273	Sublot 2A2, at Furzon Hill Cottages	M	Yes	N	3.9	0.1	53.7	0	100.0
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	L	Yes	N	4.5	0.1	40.7	0	100.0
FOS002	436429, 266276	Valley Fields, Fosse Way Main	L	Yes	N	4.1	0.0	34.7	0	95.0

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





FOS002

