

Air Quality and Dust Monitoring Monthly Report – March 2022 **Stratford-on-Avon District** Council



Department for Transport

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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.

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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 dust monitoring undertaken in the Stratford-Upon-Avon District Council (SoADC) area during March 2022.

1.1.2 Figure 1 to Figure 2 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 phase of works commenced in July 2021 and is expected to be completed by 2025. The current worksites, as presented in Appendix A, Figure 1 to Figure 2 include:

Southam Worksite (Harp Farm)

- Further establishment of the main site compound;
- Installation of drainage and culverts, excavation of ponds;
- Topsoil stripping and material movement;
- Establishment of the site access road; and
- Plant crossing (A423 Banbury Road).

Sublot 1A

- 24/7 tunnel boring works;
- Operation of the Slurry Treatment Plant; and
- Operation of the Water Treatment Plant.

Sublot 2A2

- Topsoil Stripping;
- Haul road construction; and
- Earthworks cutting.

1.1.5 Three (3) dust monitors are installed around worksites, where works are underway. These sites returned a medium dust risk rating.

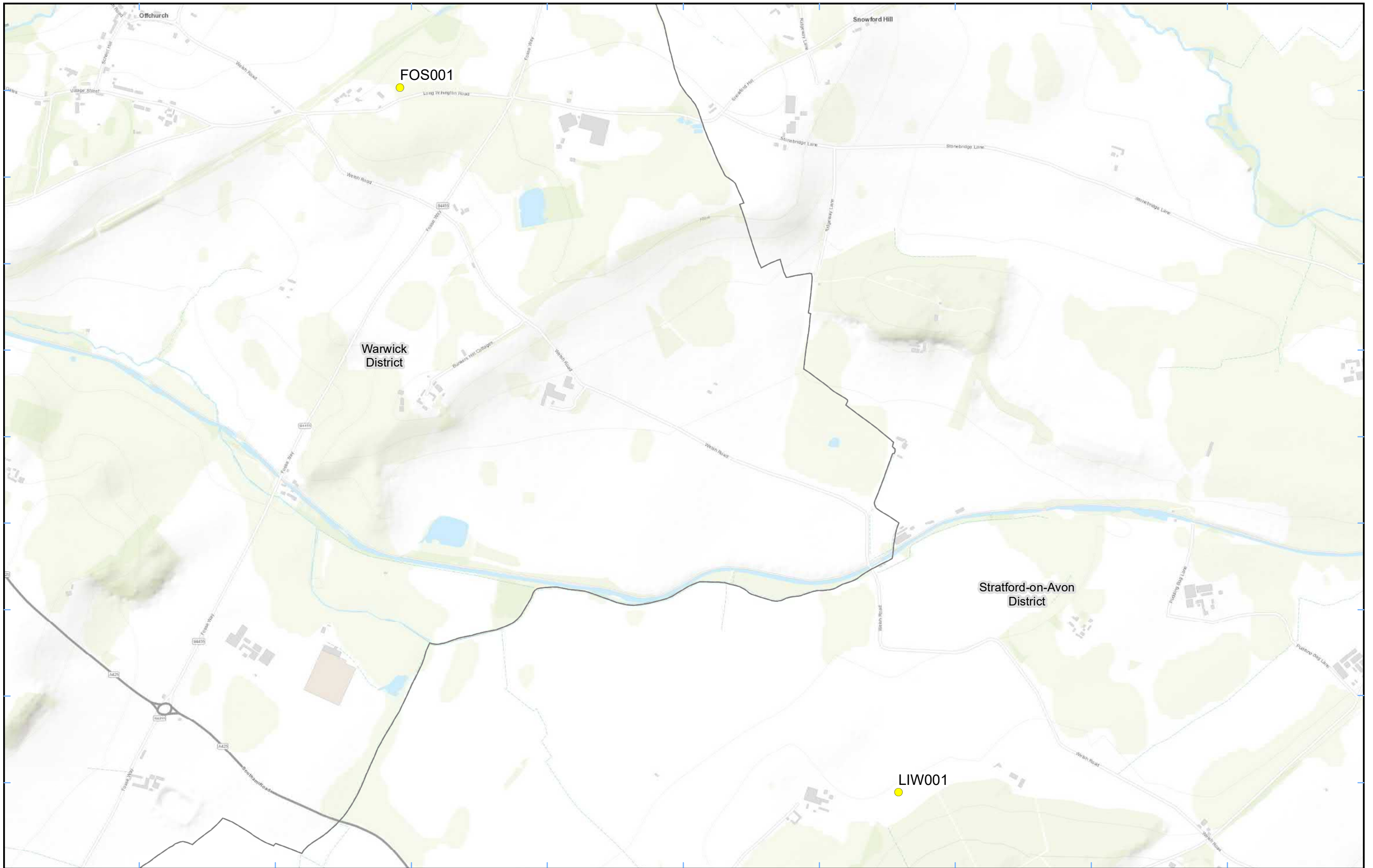
1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, in Figure 3. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors 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 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 (March 2022).
- 1.1.9 Data capture was below 90% for monitor AQMP1 in March 2022 due to power supply issues and adverse weather conditions.
- 1.1.10 There were no (0) complaints received during this reporting period.

Appendix A –Monitoring Locations

Figure 1 to Figure 2: Worksite and monitoring locations within the SoADC



Legend
 ● Dust Monitor
 □ District Borough Unitary Boundaries

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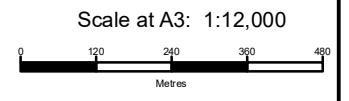
Map Number
 Map Name
**Worksite and Monitoring Locations
 In SoADC (Sheet 1)**
 Stratford-on-Avon District Council



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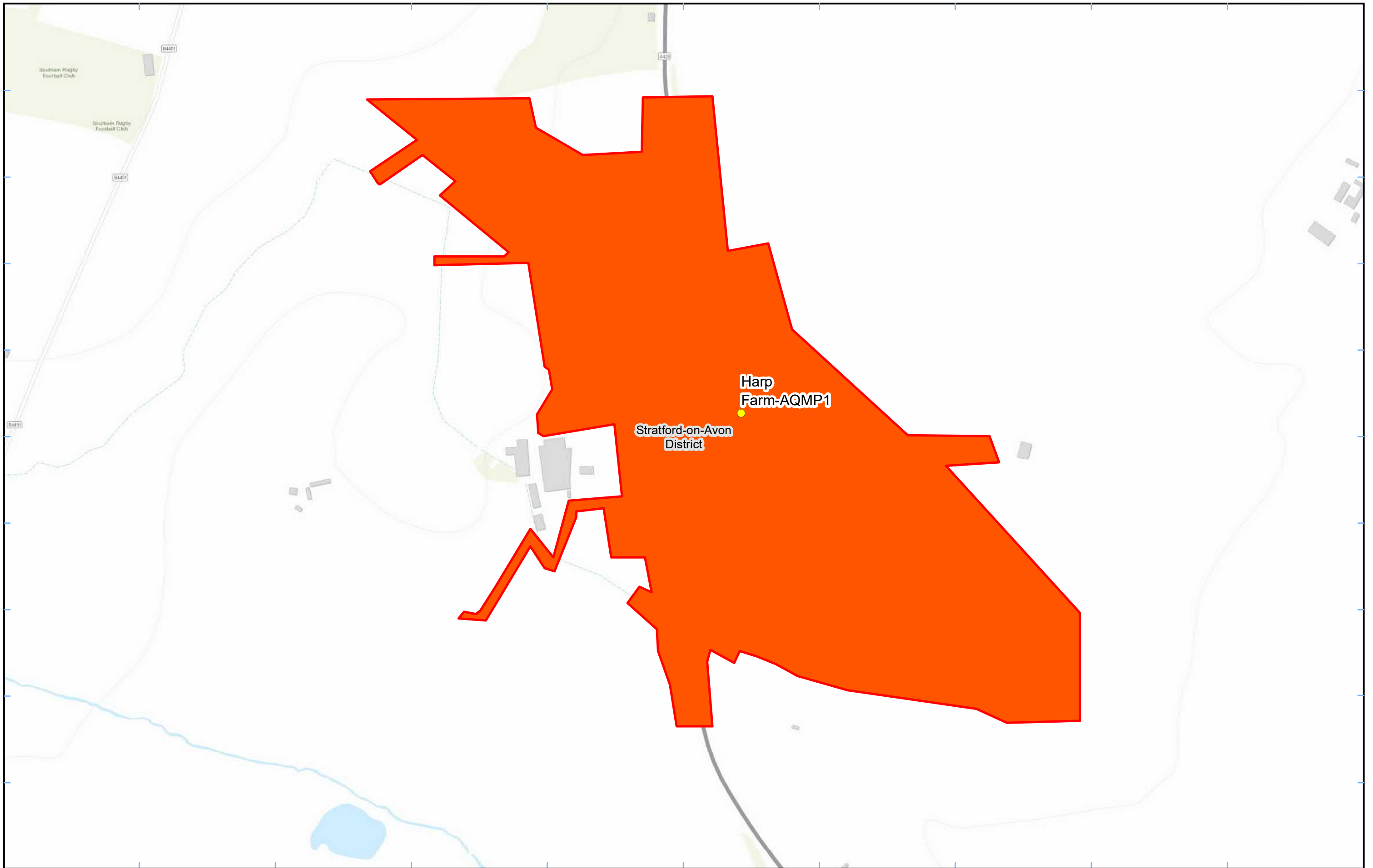
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- Legend**
- Dust Monitor
 - Worksite
 - District Borough Unitary Boundaries

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Map Number
Map Name Worksite and Monitoring Locations In SoADC (Sheet 2)
Stratford-on-Avon District Council

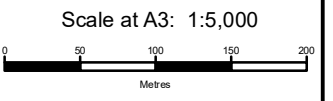


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Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and March 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	1-hour data capture (%)
Harp Farm-AQMP1	52.23729, -1.39022	Site boundary adjacent property on Harp Farm	M	Yes	Y	21.6	1.0	148.0	0	43.2
LIW001	438656, 263180	Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI.	M	Yes	N	1.5	0.1	23.2	0	96.6
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	N	16.2	0.3	73.1	0	99.9

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

