

Air Quality and Dust Monitoring Monthly Report – September 2022

Stratford-on-Avon 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 Stratford-on-Avon District (SoADC) during September 2022.
- 1.1.2 Figures 1 and 2 in Appendix A indicate the current worksites together with the dust monitoring locations for September 2022.
- 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 and 2, include:

Long Itchington Wood North Portal site (Sublot 1A)

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

Fosse Way Compound site (Sublot 2A2)

- Topsoil stripping,
- Haul roads construction, and
- Earthworks cutting (transporting material to River Leam embankment via haul road).

Southam worksite

- Installation of drainage and culverts, excavation of ponds
- Topsoil stripping and material movement
- Further establishment of the site access road
- Bulk earthworks on Windmill Hill and Ladbroke Cutting
- Earthworks and piling platform for A423 overbridge, Ladbroke Grove FAOB, Lower Radbourne FAOB.
- Earthworks and abutment works for Kineton Road Overbridge

Kineton road worksite

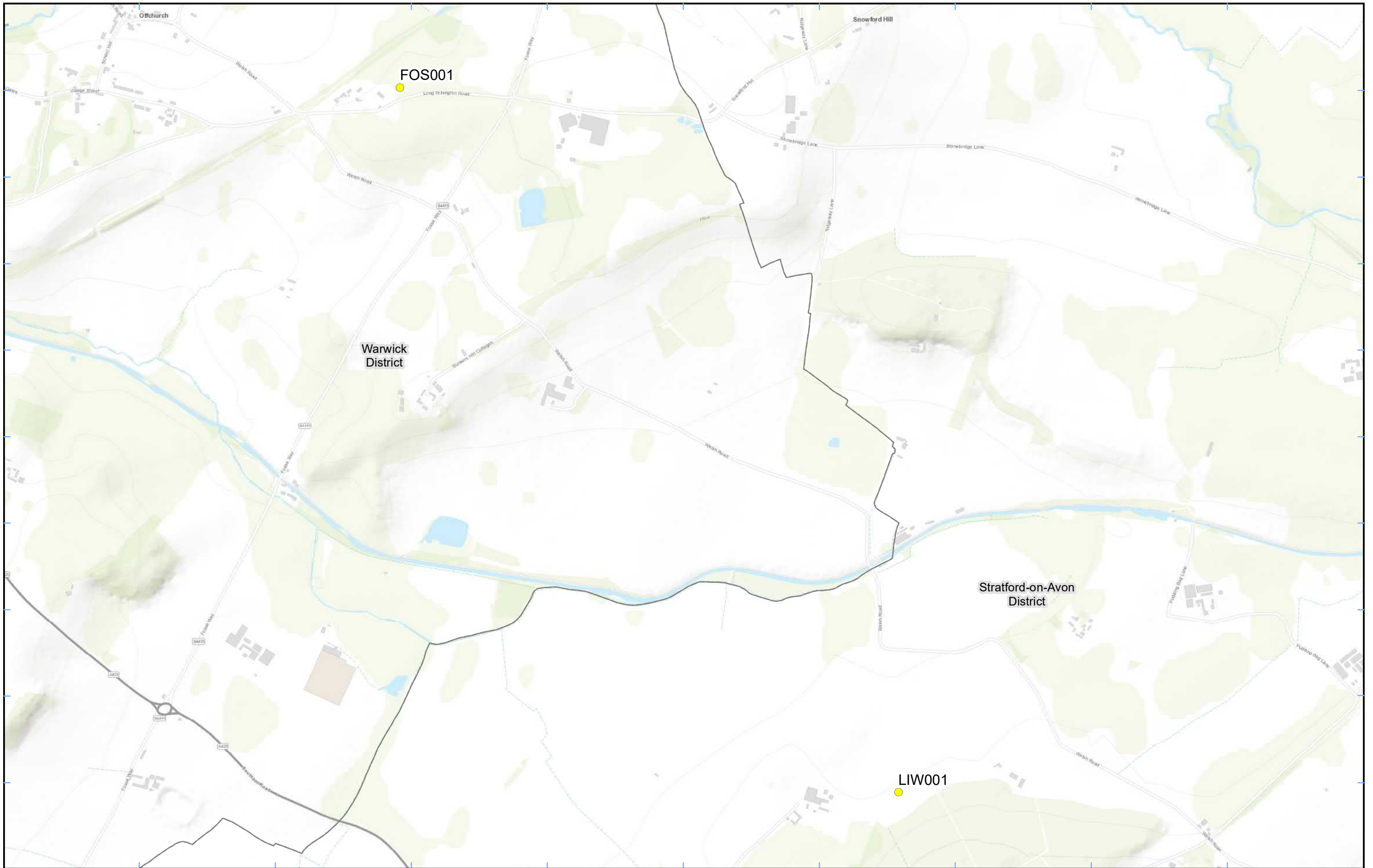
- Piling works and preparation of piling mats
- Bulk earthworks for cutting
- Landscape fill for embankments
- Stockpiling and Stockpile maintenance

- Site Traffic
- Drainage – ditches and ponds, general maintenance

- 1.1.5 Four (4) dust monitors are installed at worksites, where works are underway. These sites returned a low dust risk rating.
- 1.1.6 Dust monitoring location and results are presented in Appendix B, Table 1, together with line charts of monthly data from the dust monitor presented 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 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 There were no (0) dust trigger alerts recorded during the monitoring period (September 2022).
- 1.1.9 There were no (0) complaints received during this reporting period (September 2022).

Appendix A – Worksites and Monitoring Locations

Figure 1 and 2: Worksites and monitoring locations within the SoADC



Legend
 ● Dust Monitor
 □ District Borough Unitary Boundaries

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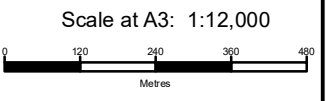
Map Number
 Map Name
**Worksite and Monitoring Locations
 In SoADC (Sheet 1)**
 Stratford-on-Avon District Council



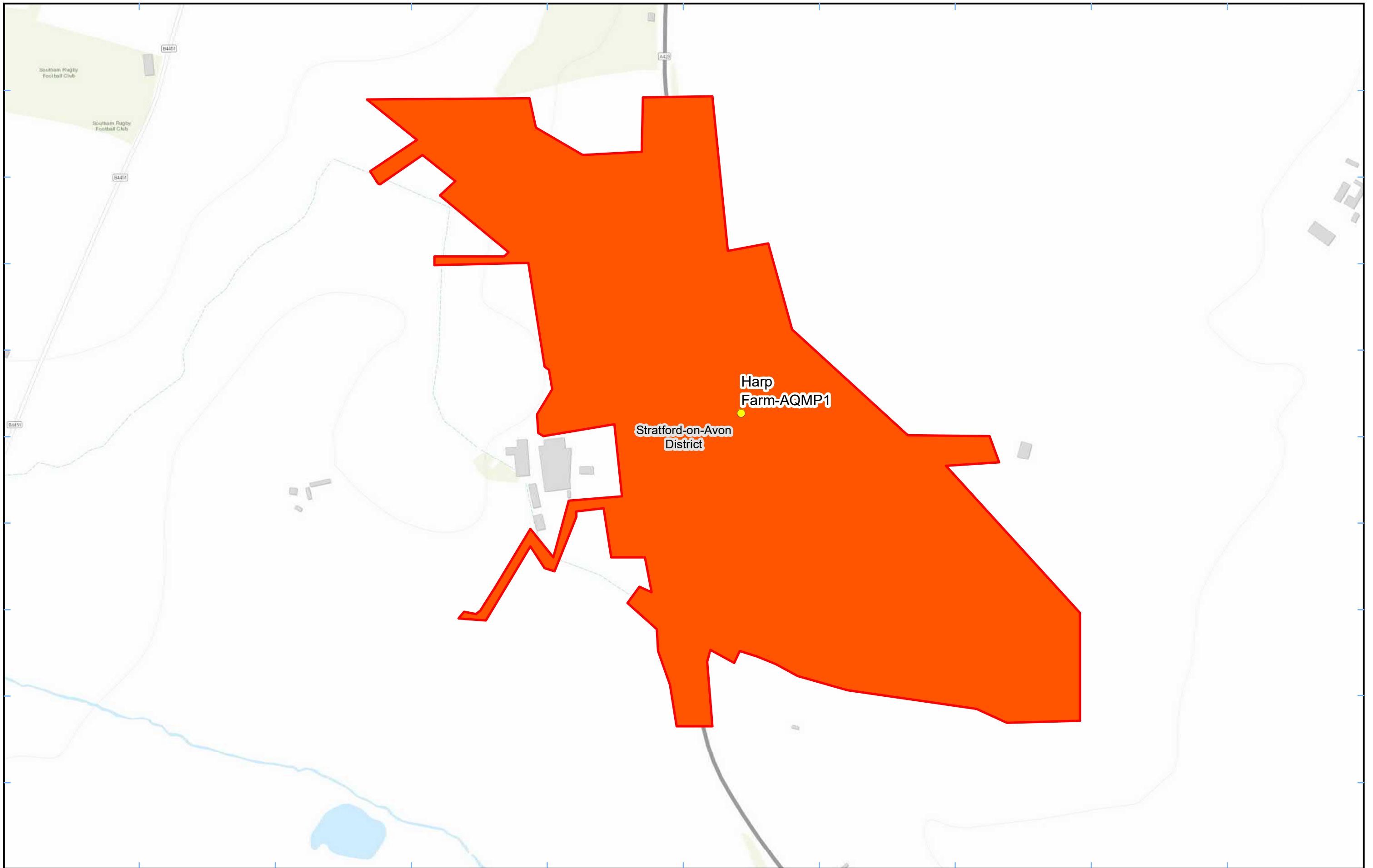
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- Legend**
- Dust Monitor
 - Worksite
 - District Borough Unitary Boundaries

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

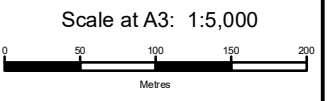


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Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and September 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	Data capture (%)
LIW001	438656, 263180	Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI.	M	Yes	No	5.9	0.1	41.8	0	100.0
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	5.5	0.4	36.9	0	100.0
Harp Farm-AQMP1	441738, 260075	Site boundary adjacent property on Harp Farm	M	Yes	Yes	6.1	1.0	129.0	0	99.9
Kineton Rd	441092, 260808	Adjacent to Kineton Road roundabout	M	Yes	Yes	5.4	1.0	34.0	0	99.9

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

