

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

Stratford-on-Avon 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.

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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 dust monitoring undertaken in the Stratford-on-Avon District Council (SoADC) during March 2023.

1.1.2 Figure 1 and 2 in Appendix A present the current worksite together with the dust monitoring location for March 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 and 2, include:

## **Southam worksite**

- Installation of drainage and culverts, excavation of ponds
- Topsoil stripping and material movement
- Further establishment of the site access road
- Bulk earthworks Southam Cutting, Windmill Hill & Ladbrooke Cutting
- Embankment fill.
- Earthworks for piling platform works at Ladbrooke Grove FAOB.
- Piling platform construction at Kineton Road OB.
- Piling at Kineton Road OB.
- Lower Radbourne River Diversion
- Frameworks at A423 OB.
- Earthworks and abutment works for Kineton Road Overbridge
- Kineton Road surveys
- Oxford Canal Bridge works

## **Long Itchington Wood North Portal (Sublot 1A)**

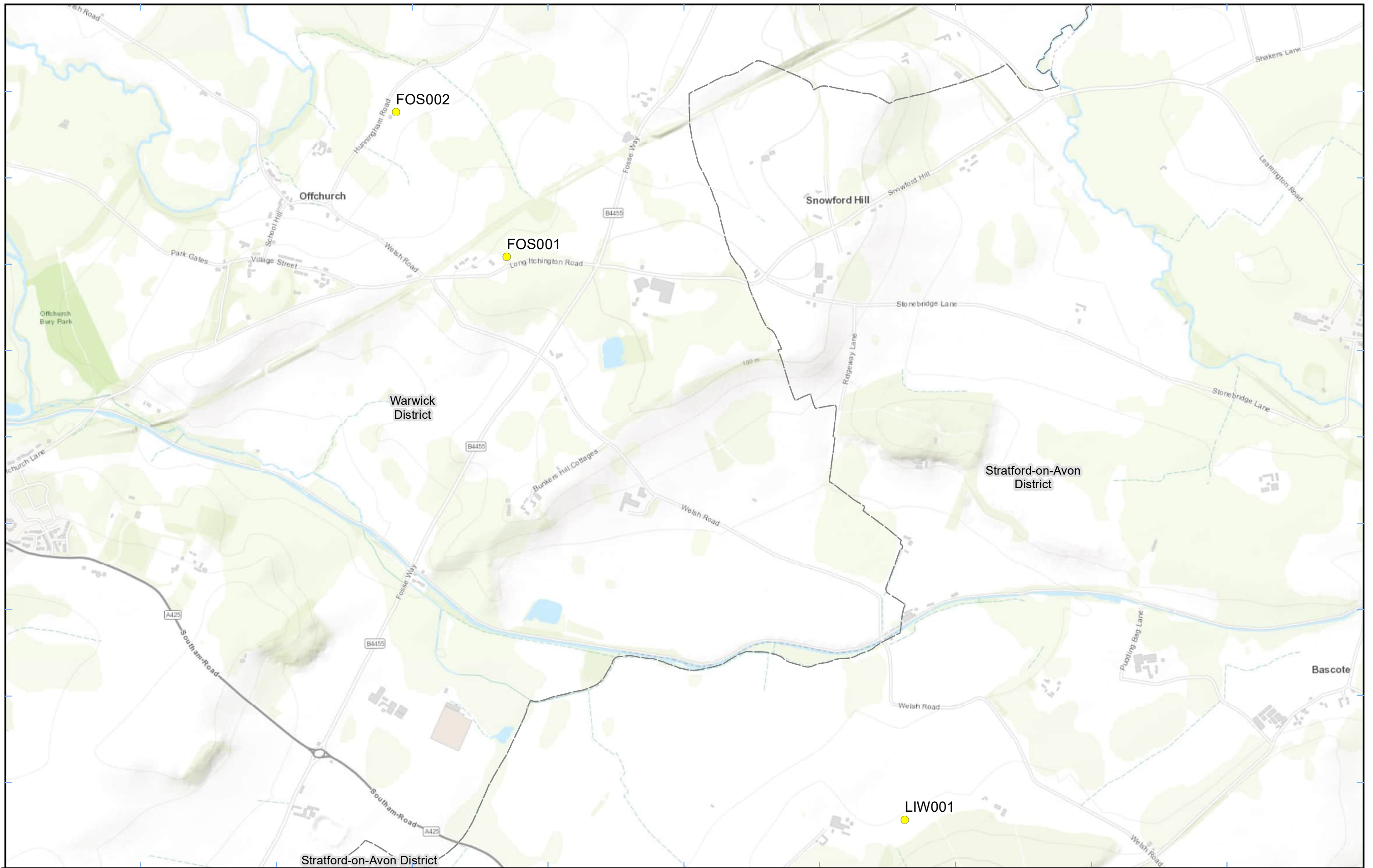
- Earthworks.
- Site Maintenance.
- Tunnelling.

1.1.5 Five (5) dust monitors are installed at 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 the dust monitors 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 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 Data capture was below 90% for FOS002 due to a power supply issue.
- 1.1.9 No (0) dust alerts were recorded during the monitoring period.
- 1.1.10 No (0) complaints were received during the reporting period (March 2023).

# Appendix A –Monitoring Locations

Figures 1 and 2: Worksite and Monitoring locations within the SoADC



**Legend**

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name  
**Worksite & Monitoring Locations  
 In SoADC (Sheet 1)**

**Stratford-on-Avon District Council**

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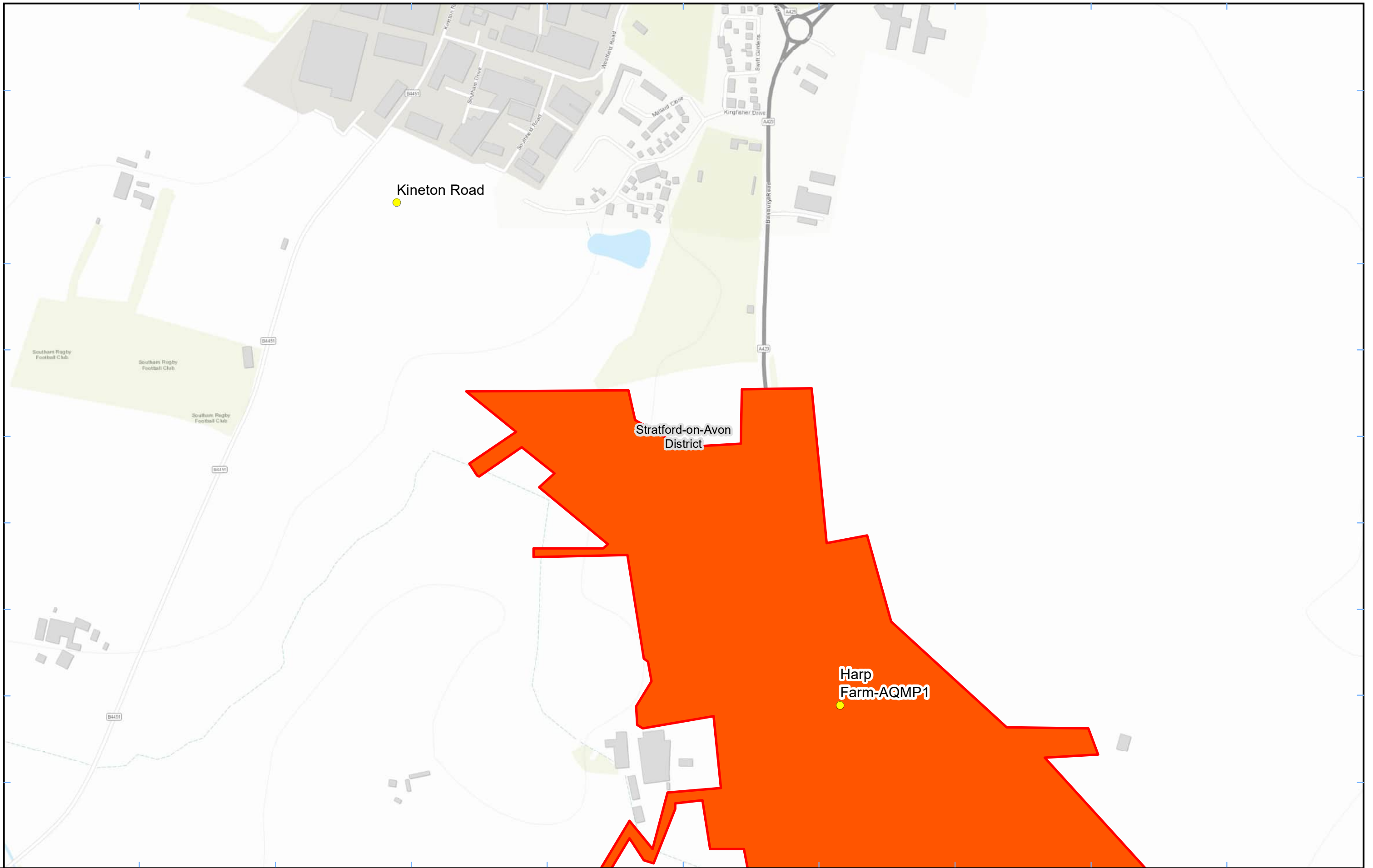
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Scale at A3: 1:15,000

0 150 300 450 600  
 Metres

**Doc Number:**

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**Legend**

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

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Map Name  
**Worksite & Monitoring Locations  
 In SoADC (Sheet 2)**

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## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and March 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 (%)
Harp Farm-AQMP1	441738, 260075	Site boundary adjacent property on Harp Farm	M	Yes	Yes	6.1	1.0	32.0	0	99.1
Kineton Rd	441092, 260808	Adjacent to Kineton Road roundabout	M	Yes	Yes	5.7	1.0	25.0	0	97.7
LIW001	438656, 263180	Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI.	M	Yes	No	4.5	0.1	25.5	0	99.6
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	L	Yes	No	4.7	0.1	27.2	0	99.6
FOS002	436429, 266276	Valley Fields, Fosse Way Main	L	Yes	No	1.1	0.1	16.1	0	76.3



Figure 3: Continuous dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors



FOS002

