

Air Quality and Dust Monitoring Monthly Report – May 2023

Stratford-on-Avon 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 Stratford-on-Avon District (SoADC) during May 2023.

1.1.2 Figure 1 in Appendix A indicate the current worksites together with the dust monitoring locations for May 2023.

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, Figure 1, include:

Long Itchington Wood North Portal site (Sublot 1A)

- Earth works.
- Site maintenance.

Southam worksite

- Installation of drainage and culverts
- Pond maintenance
- Topsoil stripping and material movement
- Further establishment of the site access road
- Bulk earthworks Southam Cutting, Windmill Hill & Ladbroke Cutting
- Southam Embankment bulk earthworks
- Embankment fill
- Earthworks for piling platform works at Ladbroke Grove Farm AOB.
- Earthworks for piling platform works at Lower Radbourne Farm AOB.
- Pouring of pilecap at Lower Radbourne Farm AOB
- Earthworks for piling platform works at Lower and Upper Radbourne viaducts
- Southam Culvert excavations

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

1.1.6 The dust monitoring location and results are presented in Appendix B, Table 1, together with a line chart of monthly data from the dust monitor presented in Figure 2. All continuous dust monitoring is undertaken using indicative monitors. Despite being

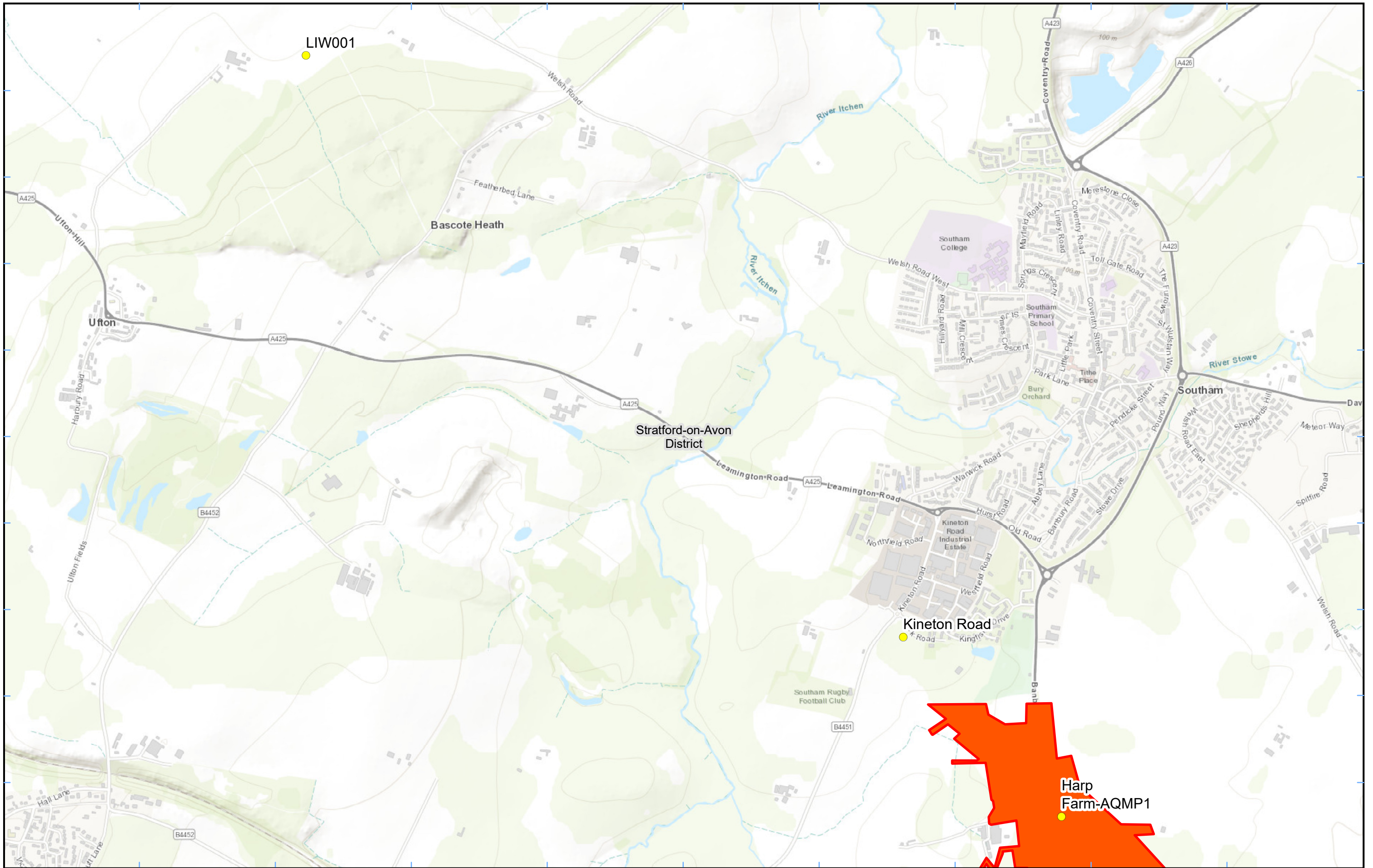
Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of 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 (May 2023).
- 1.1.9 There were no (0) complaints received during this reporting period (May 2023).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring Locations within SoADC





Legend
 ● Dust Monitor
 □ District Borough Unitary Boundaries
 ■ Worksite

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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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Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and May 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 (%)
LIW001	438656, 263180	Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI.	M	Yes	No	7.2	0.1	22.8	0	97.6
Harp Farm-AQMP1	441738, 260075	Site boundary adjacent property on Harp Farm	M	Yes	Yes	7.3	1.0	32.0	0	98.9
Kineton Rd	441092, 260808	Adjacent to Kineton Road roundabout	M	Yes	Yes	7.5	1.0	24.0	0	97.8

Figure 2: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors

