

Air Quality and Dust Monitoring Monthly Report – December 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 December 2023.
- 1.1.2 Figure 1 in Appendix A present the current worksites together with the dust monitoring locations.
- 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 (Sublot 1A)

- Compound roads – White lining (BBV Surface team).
- CCTV Relocation (MAC electric).
- Install Pit bottom pumps (Service crossing 3).
- Silt Fencing (Sublot 2 Drainage and North Portal (NP) Site team).
- Road/Walkway barrier install/tidy.
- Ridgeway Lane - Road repair.
- Compound - Road repair.
- Tunnel Segment Repair - Phase 2.
- Setting Out or Collars (Control Point 1 and Control Point 2).
- PJ Davidson (PJD) access prep - Cleaning and Ramps.
- PJD - Drainage install.
- Relocate services up and over (No Access to Tunnel during (8 hours)).
- Reinforcement Stage 1.
- Reinforcement Stage 2.
- Excavation for pour.
- Blinding for pour.
- Reinforcement pour.
- Stockpile management.
- ATM planting trees.
- Trial holes for utility diversion works.

Southam worksite

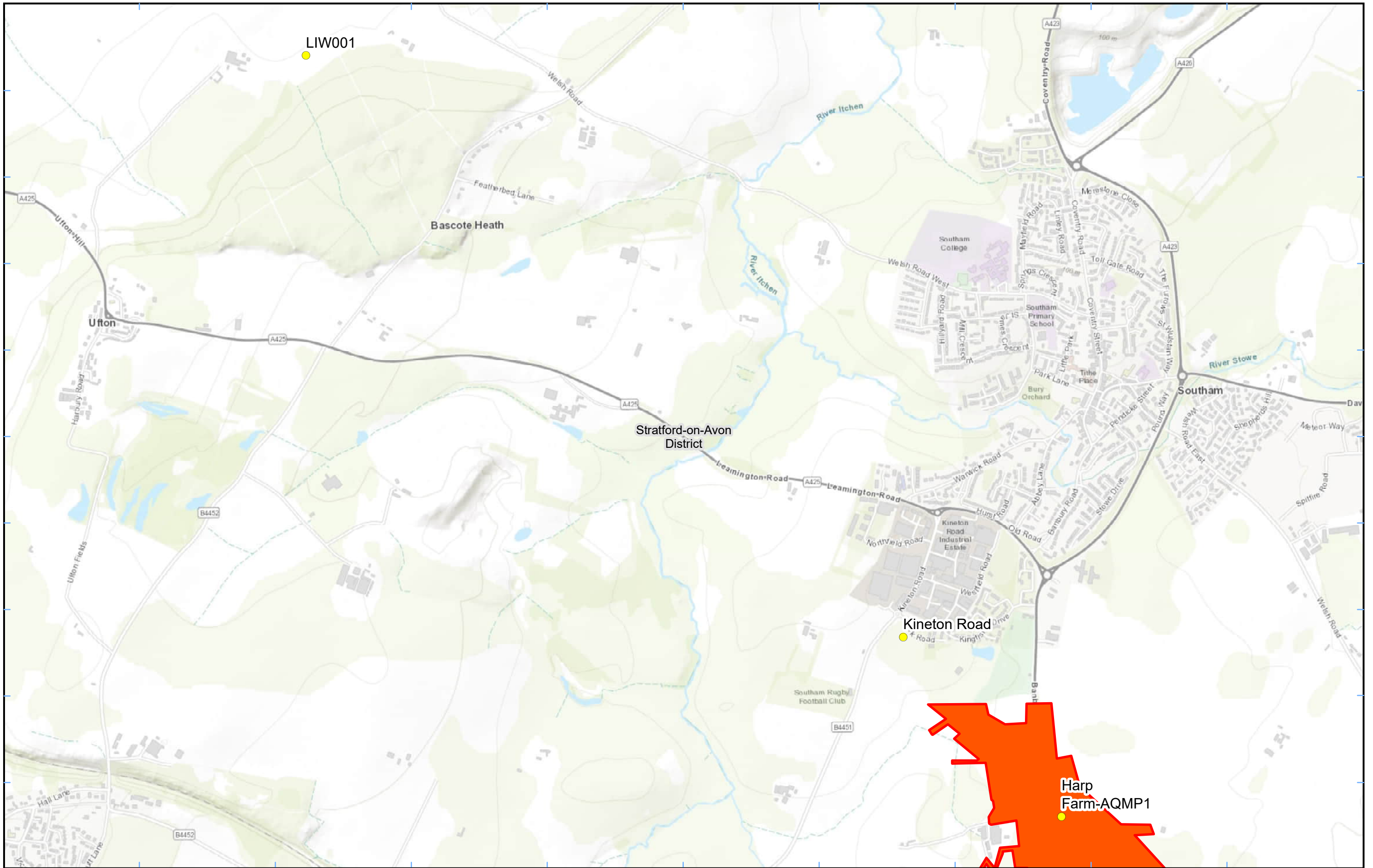
- Installation of drainage and culverts
- Pond maintenance
- Topsoil stripping and material movement
- Further establishment of the site access road
- Deconstruction of inadequate sections of Site Access Road (SAR)
- FRC Formwork at structures including Banbury Road Overbridge, Kineton Road Overbridge, Ladbroke Grove Farm AOB, Lower Radbourne Farm AOB
- Earthworks for Piling Platforms at Windmill Hill Farm AOB
- Concrete pouring at structures for pile caps and formwork pours
- Piling operations at Oxford Canal viaduct
- Southam Culverts precast and cast in situ culverts.

- 1.1.5 Three (3) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 The dust monitoring location and results are presented in Appendix B, Table 1, together with line charts of monthly data from each 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 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 (December 2023).
- 1.1.9 Data capture was below 90% for the LIW001 monitor due to a power supply issue, it was later discovered that the solar panels were stolen on 29th December. The Harp Farm-AQMP1 monitor had low data capture due to a lack of solar charge. Kineton Road monitor had a fault and the monitor was disconnected.
- 1.1.10 There were no (0) complaints received during the reporting period (December 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 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 PM10 concentration (µg/m3)	Minimum 1-hour PM10 concentration (µg/m3)	Maximum 1-hour PM10 concentration (µg/m3)	Number of 1-hour periods exceeding trigger level of 190 µg/m3	Data capture (%)
LIW001	438656, 263180	Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI.	M	Yes	No	4.7	0.1	20.9	0	79.8
Harp Farm-AQMP1	441738, 260075	Site boundary adjacent property on Harp Farm	M	Yes	Yes	6.6	1.0	26.0	0	39.1
Kineton Rd	441092, 260808	Adjacent to Kineton Road roundabout	M	Yes	Yes	9.1	3.0	15.0	0	4.0

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

