

## Air Quality and Dust Monitoring Monthly Report – September 2024

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 air quality and dust monitoring undertaken in Stratford-on-Avon District (SoADC) during September 2024.
- 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](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, Figure 1, include:

## **Southam worksite**

- Compound maintenance
- Site access road and haul road construction/maintenance
- Utilisation of haulage road for moving material
- Drainage and temporary ponds
- Water management
- General earthworks (bulk and topsoil strip)
- Stockpile management
- Utilities (HDD and Opencut)
- Vegetation clearance and maintenance
- General structures (viaducts, green tunnels, overbridges, culverts).

## **Harp Farm**

- Bulk earthworks
- Structures
- Utilities
- Installation of drainage and culverts
- Pond maintenance and water management
- Topsoil stripping and material movement
- Further establishment of the site access road and haul road
- Embankment fill
- Kineton Road & Radbourne Formworks
- Oxford Canal Viaduct – south side piling

- River Itchen piling platform.

### **Kineton Road**

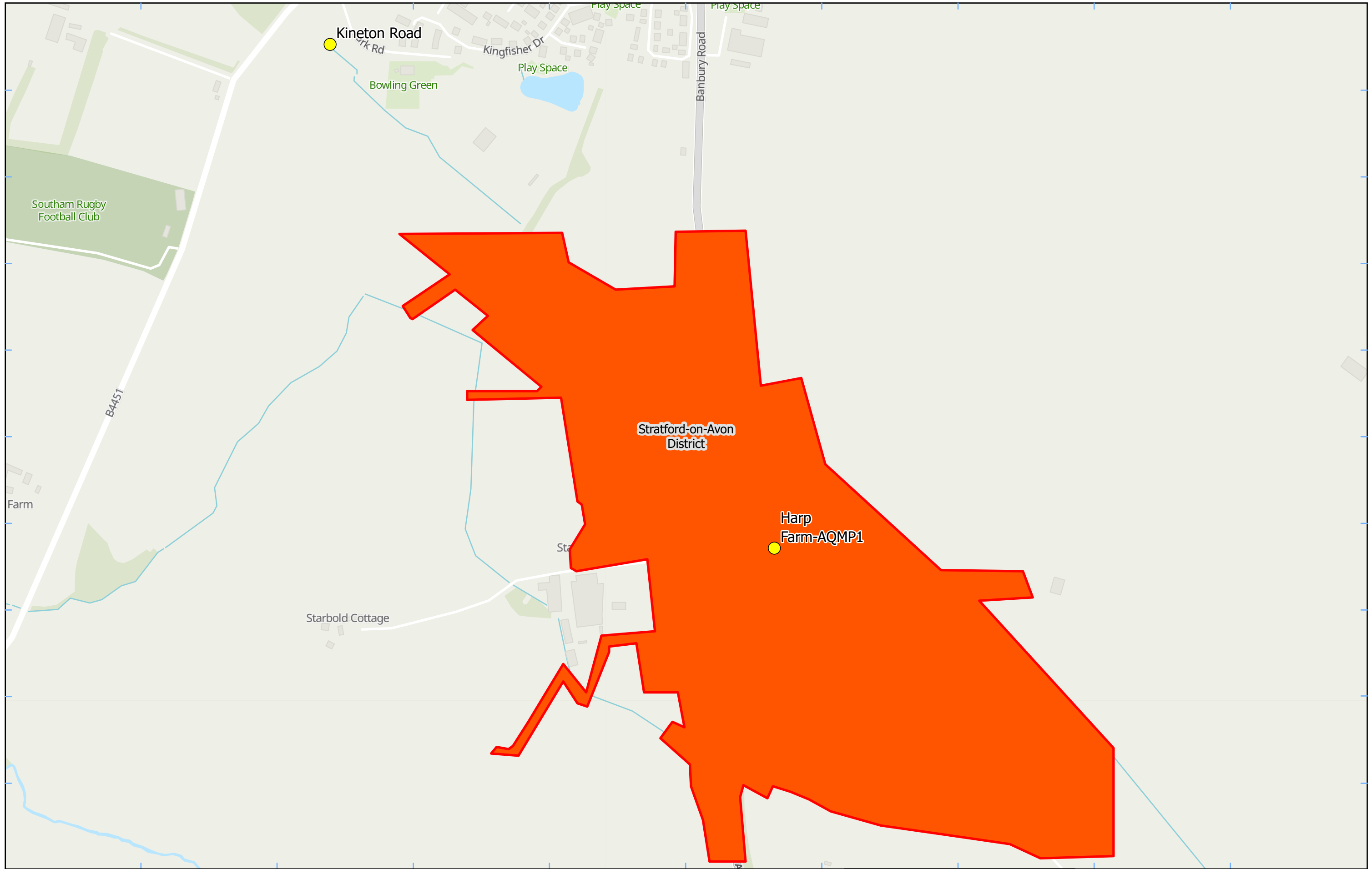
- Bulk earthworks
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- River Itchen piling platform.

- 1.1.5 Two (2) 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 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 No (0) dust trigger alerts were recorded during the monitoring period (September 2024).
- 1.1.9 Data capture was below 90% for the Kineton Road monitor due to missing data from 11<sup>th</sup> to 18<sup>th</sup> September as a result of a communications cable fault. This was replaced on 18<sup>th</sup> September.
- 1.1.10 There were no (0) complaints received during the reporting period (September 2024).

# 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
<b>Worksite and Monitoring Locations In SoADC (Sheet 1)</b>
<b>Stratford-on-Avon District Council</b>

**hs2**

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Scale at A3: 1:5,000

Metres

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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 (%)
Harp Farm-AQMP1	441738, 260075	Site boundary adjacent property on Harp Farm	M	Yes	Yes	10.6	1.0	70.0	0	99.4
Kineton Rd	441092, 260808	Adjacent to Kineton Road roundabout	M	Yes	Yes	12.1	1.0	60.0	0	77.2

Figure 2: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors

