

Air Quality and Dust Monitoring Monthly Report – November 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 dust monitoring undertaken in the Stratford-Upon-Avon District Council (SoADC) during November 2022.
- 1.1.2 Figures 1 and 2 in Appendix A present the current worksite together with the dust monitoring location for November 2022.
- 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, 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 on Windmill Hill and Ladbroke Cutting;
- Earthworks and piling platform at Ladbroke Grove FAOB, Lower Radbourne FAOB;
- Piling at A423 OB;
- Earthworks and abutment works for Kineton Road Overbridge;
- Kineton Road surveys; and
- Oxford Canal Bridge installation works.

The 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.

The Fosse Way Compound site (Sublot 2A2)

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

- 1.1.5 Five (5) dust monitors are installed at the worksite, where works are underway. These sites returned a medium dust risk rating.

- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with a line chart 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 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 Data capture was below 90% for FOS002 due to the monitor being under calibration.
- 1.1.9 No (0) dust trigger alerts were recorded during the monitoring period (November 2022).
- 1.1.10 No (0) complaints were received during the reporting period.

Appendix A –Monitoring Locations

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

Placeholder for Fig 1



Placeholder for Fig 2



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and November 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	1-hour data capture (%)
Harp Farm-AQMP1	441738, 260075	Site boundary adjacent property on Harp Farm	M	Yes	Yes	7.8	1.0	62.0	0	93.1
Kineton Rd	441092, 260808	Adjacent to Kineton Road roundabout	M	Yes	Yes	6.8	1.0	50.0	0	91.0
LIW001	438656, 263180	Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI.	M	Yes	No	5.6	0.1	23.5	0	98.8
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	L	Yes	No	5.1	0.1	23.3	0	99.4
FOS002	436429, 266276	Valley Fields, Fosse Way Main	L	Yes	No	1.2	0.1	23.8	0	68.3

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



