

Air Quality and Dust Monitoring Monthly Report – September 2023

Lichfield District Council



Department for Transport

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High Speed Two (HS2) Limited,
Two Snowhill
Snow Hill Queensway
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

A report prepared by EWCs and MWCCs on behalf of HS2 Ltd.

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Monthly Summary

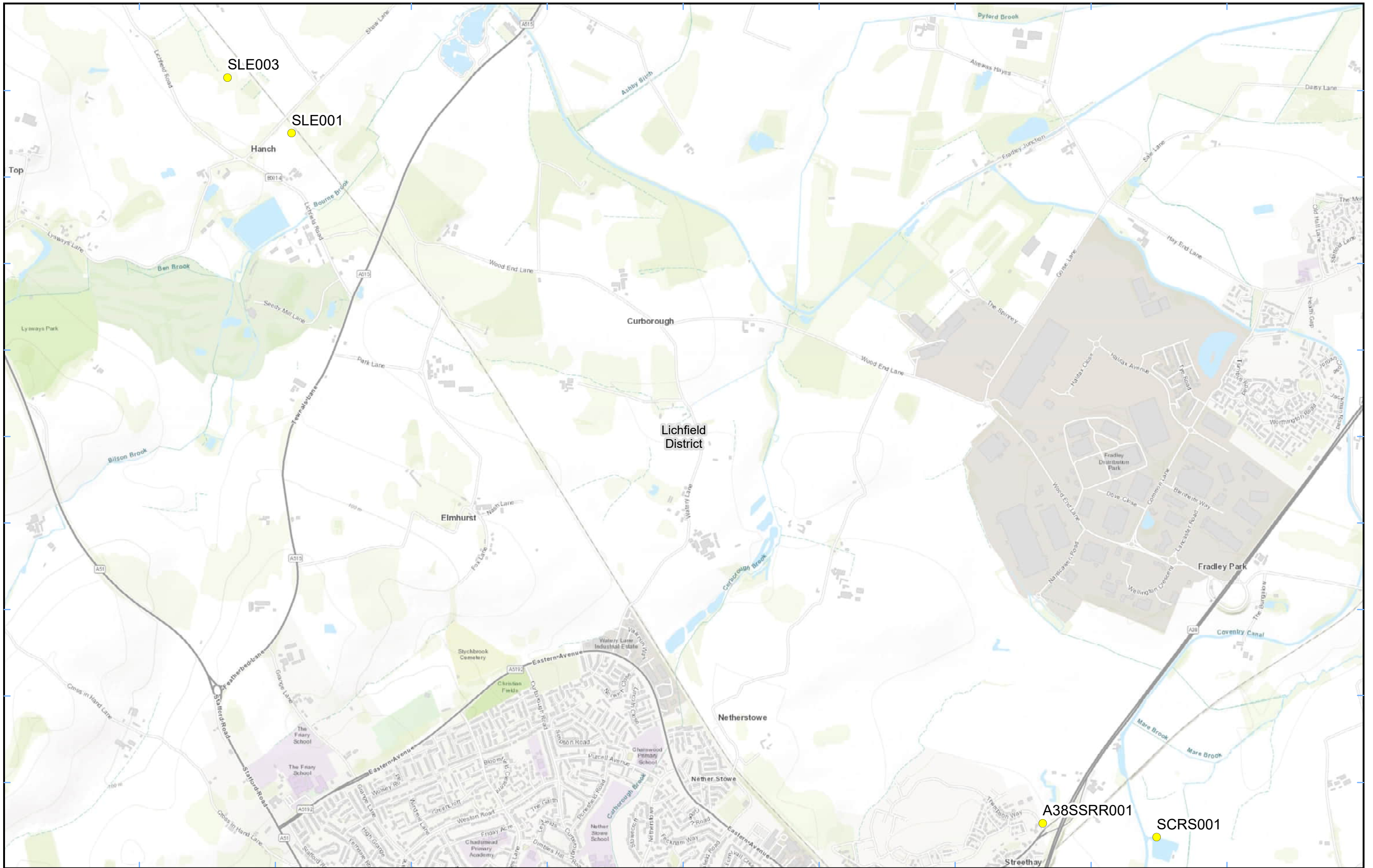
- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality and dust monitoring undertaken in Lichfield District Council (LDC) during September 2023.
- 1.1.2 Figure 1 in Appendix A indicate the current worksites together with the dust monitoring locations for September 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:
- Shaw Lane Embankment and Underbridge (Sublot 8.2)**
- No works are currently taking place
- Streethay Cutting Retaining Structure (Sublot 8.3)**
- Capping beam and propping beam construction.
- 1.1.5 Four (4) dust monitors are installed at worksites, where works are underway. These sites returned a low 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 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 No (0) dust trigger alerts were recorded during the monitoring period (September 2023).

- 1.1.9 Data capture was below 90% for the monitor at SLE001 due to the monitor being decommissioned on the 5th September due to a slow-down in works.
- 1.1.10 Field calibrations were performed on monitor SCRS001 on 5th September 2023 and on monitor A38SSRR001 on 6th September 2023.
- 1.1.11 There were no (0) complaints received during this reporting period (September 2023).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring Locations within LDC





Legend
 Dust Monitor
 District Borough Unitary Boundaries

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Map Number
 Map Name
**Monitoring Locations
 In LDC (Sheet 1)**
 Lichfield District

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Scale at A3: 1:18,000

Doc Number: Date: 12/10/23

Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and September 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 for Month (%)
SLE001	410377, 314190	Spinney Nurseries, Shaw Lane Embankment	L	Yes	Yes	15.6	2.8	128.6	0	14.9
SLE003	410041, 314481	New Lane Produce South, Shaw Lane Embankment	L	Yes	No	9.8	0.3	62.7	0	100.0
SCRS001	414913, 310498	Streethay Cutting Retaining Structure, King's Orchard Marina	L	Yes	No	8.9	0.1	67.5	0	100.0
A38SSRR001	414315, 310571	Thompson Way, Streethay, Fradley and Streethay	L	Yes	No	11.2	0.4	69.7	0	100.0

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

