

HS2

April 2023

Air Quality and Dust Monitoring Monthly Report – April 2023 Lichfield 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 Lichfield District (LDC) during April 2023.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring locations for April 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)

- Raw Water Diversion (Security Guard Only).
- Defeature the bat trees at John Gorse woodland.
- Survey of Kings Bromley watercourse and Bourne Brook.
- HC190-CR403 (Swan Lake).
- WCML Surveys.
- Shaw Lane Access - GS6 Installation.
- Swan Lake - GS6 Installation.
- Bund along watercourses.
- Haul road maintenance at the Bournbrook area.
- Electrical Remedial Works.
- Swan Lake GI access - Lift in slabs.
- Street lighting ducting.
- SSW Water connection.
- Container Ducting.

Streethay Cutting Retaining Structure (Sublot 8.3)

- Site clearance;
- Earthworks; and
- Construction works (piling, concrete deliveries).

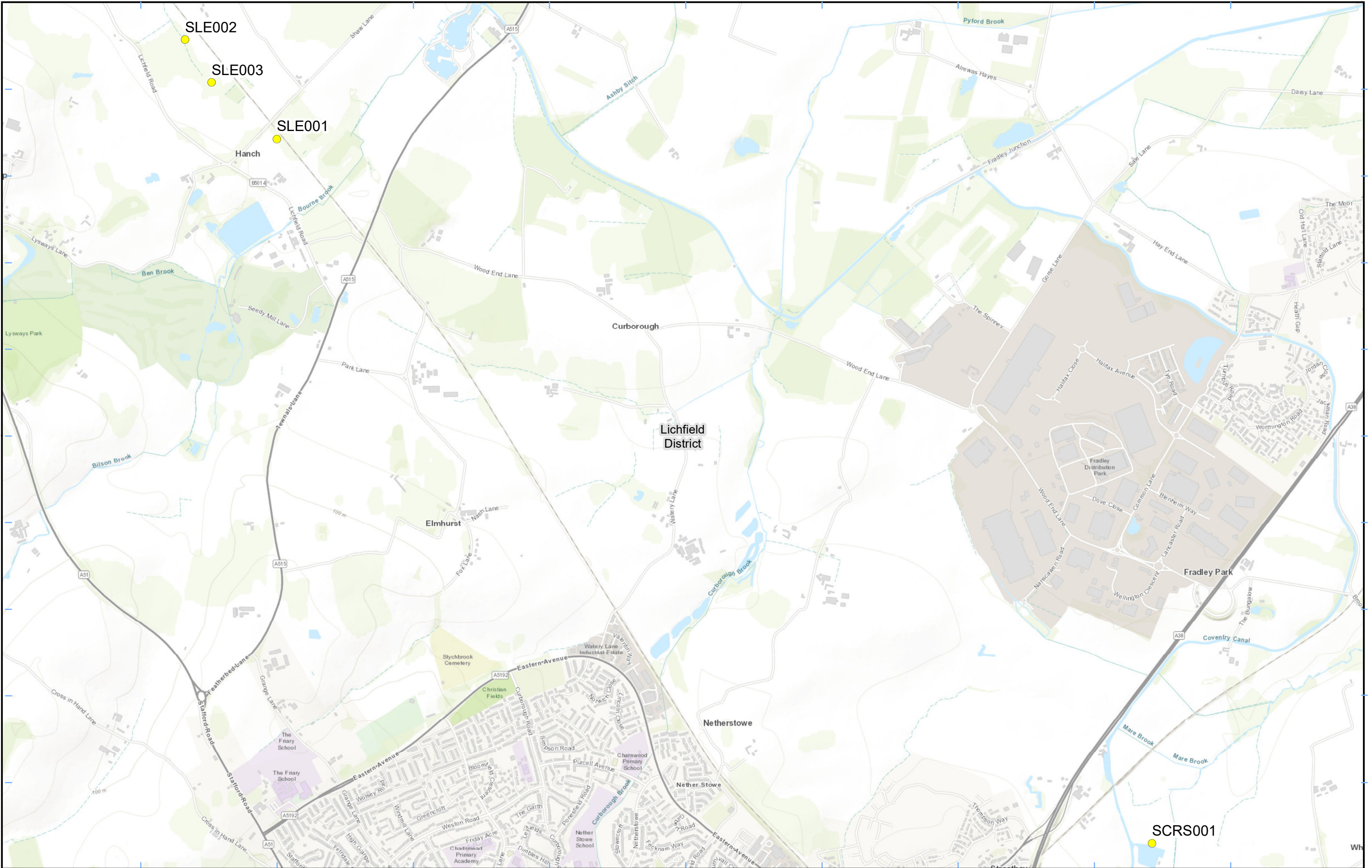
- 1.1.5 Four (4) dust monitors are installed at the worksites, where works are underway. These sites returned a low dust risk rating.

- 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 There were no (0) dust trigger alerts recorded during the monitoring period (April 2023).
- 1.1.9 There were no (0) complaints received during this reporting period (April 2023).
- 1.1.10 Monitors SLE002 and SCRS001 have recorded unusually low readings during the monitoring period (April 2023). A site visit will be planned to investigate if these monitors are operating correctly.

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

Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and April 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	410383, 314185	Spinney Nurseries, Shaw Lane Embankment	L	Yes	No	15.7	0.9	149.9	0	100.0
SLE002	409903, 314705	New Farm Produce 1, Shaw Lane Embankment	L	Yes	No	1.0	0.1	8.2	0	85.6
SLE003	410041, 314481	New Lane Produce 2, Shaw Lane Embankment	L	Yes	No	10.8	0.7	29.3	0	100.0
SCRS001	414913, 310498	Streethay Cutting Retaining Structure, King's Orchard Marina	L	Yes	No	2.1	0.1	33.6	0	92.6

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

