

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

**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 Council (LDC) during March 2024.
- 1.1.2 Figure 1 in Appendix A presents 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:
- Streethay Cutting Retaining Structure (Sublot 8.3)**
- Deliveries and collections;
  - Road Sweepers;
  - Drainage Installation;
  - Formwork installation;
  - Ongoing deliveries and collections;
  - Construction of the new road; and
  - Installation of the slip road involving excavations and backfill.
- 1.1.5 Three (3) dust monitors are installed around these 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 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 (March 2024).

1.1.9 There were no (0) complaints received during the reporting period (March 2024).

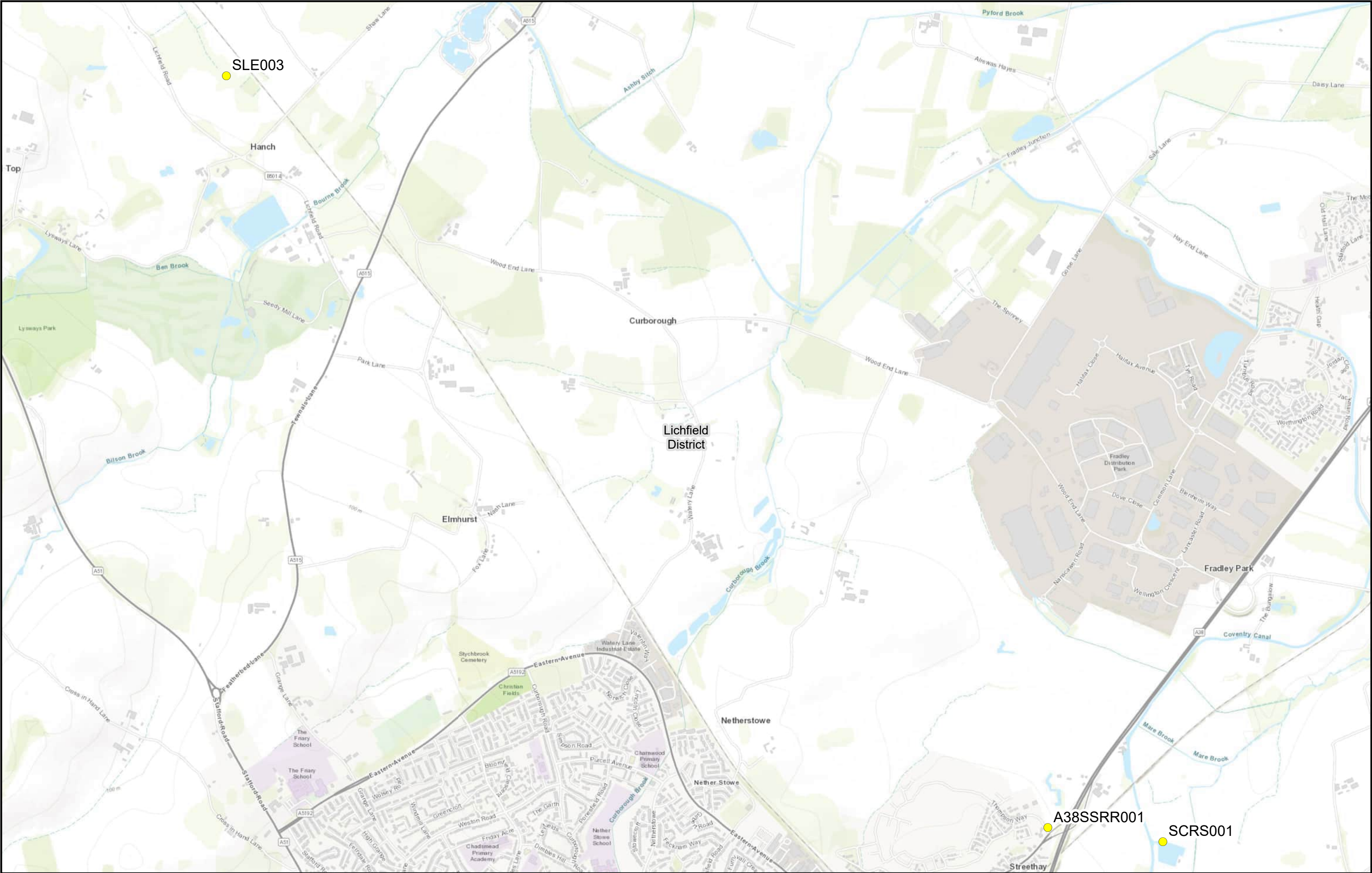


## Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring Locations within LDC







**Legend**

- Dust Monitor
- District Borough Unitary Boundaries

Service Layer Credits: World Topographic Map: Esri UK, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA

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

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Metres

Date: 22/11/23



## 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 PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1- hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture for Month (%)
SLE003	410041, 314481	New Lane Produce South, Shaw Lane Embankment	L	Yes	No	1.0	0.0	23.7	0	99.7
SCRS001	414913, 310498	Streethay Cutting Retaining Structure, King's Orchard Marina	M	Yes	No	12.9	0.2	128.3	0	99.7
A38SSRR001	414315, 310571	Thompson Way, Streethay, Fradley and Streethay	M	Yes	No	10.7	0.4	55.2	0	98.1



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

