

## Air Quality and Dust Monitoring Monthly Report – October 2022 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](mailto:HS2enquiries@hs2.org.uk)

Website: [www.gov.uk/hs2](http://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 (LDC) during October 2022.

1.1.2 Figure 1 in Appendix A indicate the current worksites together with the dust monitoring locations for October 2022.

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:

## **Shaw Lane Embankment and Underbridge (Sublot 8.2)**

- Construction of the haul road land clearance; and
- Construction of the embankment.

## **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.

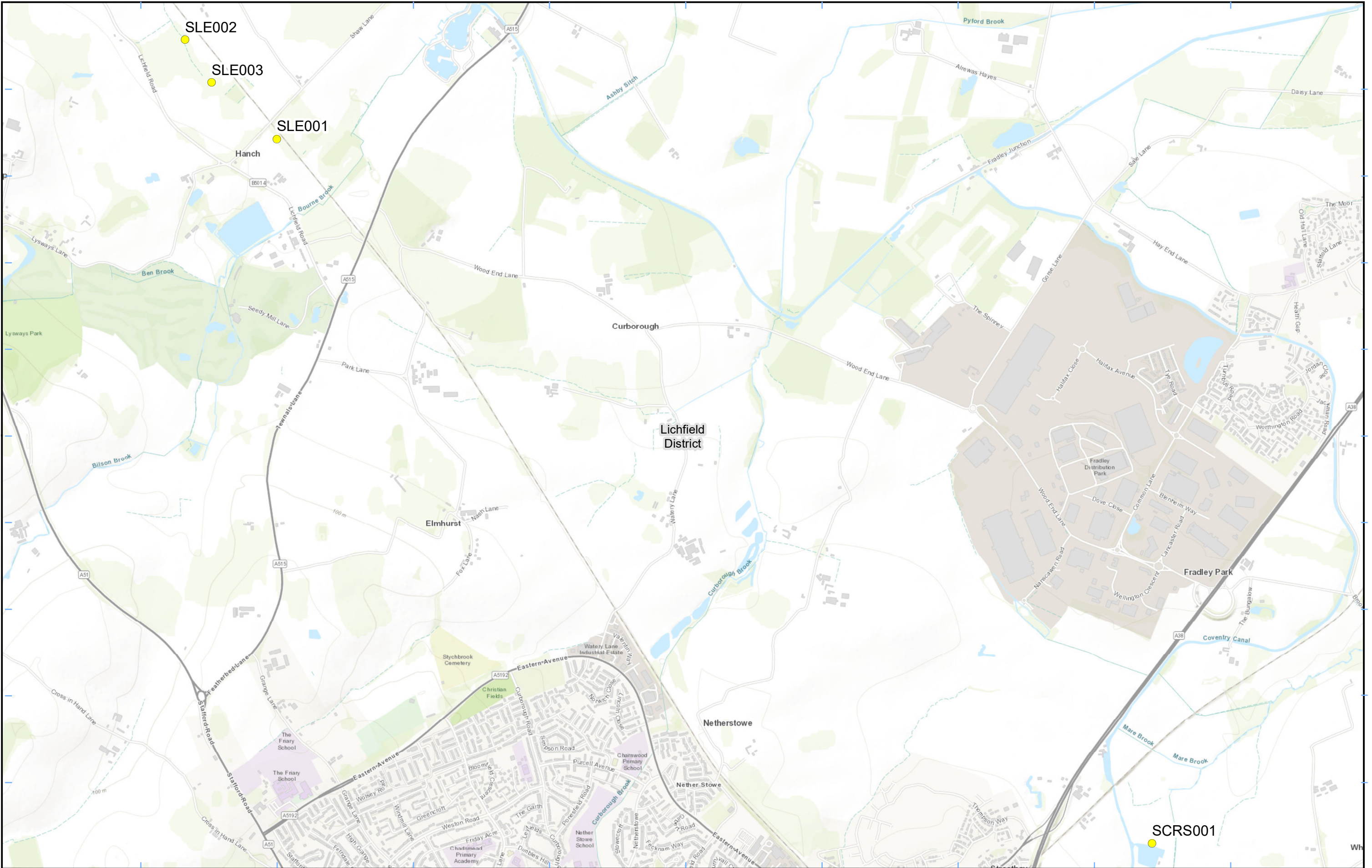
- 1.1.7 The trigger level for PM<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.
- 1.1.8 There were no (0) dust trigger alerts recorded during the monitoring period (October 2022).
- 1.1.9 There were no (0) dust complaints received during the monitoring period.

# Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and monitoring locations within the 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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## Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and October 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 <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 (%)
SLE001	410383, 314185	Spinney Nurseries, Shaw Lane Embankment	L	Yes	No	6.0	0.3	40.8	0	99.9
SLE002	409903, 314705	New Farm Produce 1, Shaw Lane Embankment	L	Yes	No	0.9	0.1	50.7	0	95.0
SLE003	410041, 314481	New Lane Produce 2, Shaw Lane Embankment	L	Yes	No	3.6	0.1	15.6	0	99.9
SCRS001	414913, 310498	Streethay Cutting Retaining Structure, King's Orchard Marina	L	Yes	No	8.0	0.6	98.9	0	99.9

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

