

# HS2

July 2023

## Air Quality and Dust Monitoring Monthly Report – July 2023 Lichfield District Council



## Department for Transport

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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 during July 2023.

1.1.2 Figures 1 in Appendix A indicates the current worksites together with the dust monitoring locations for July 2023.

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](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 Subplot 8.3**

- Pile breaking;
- Capping beam construction;
- Installing track matting; and
- Bridge deck move.

1.1.5 Five (5) 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 each dust monitor, 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*

1.1.8 One dust monitor (SCRS001) is installed at King's Orchard Marina following complaints of dust at this location.

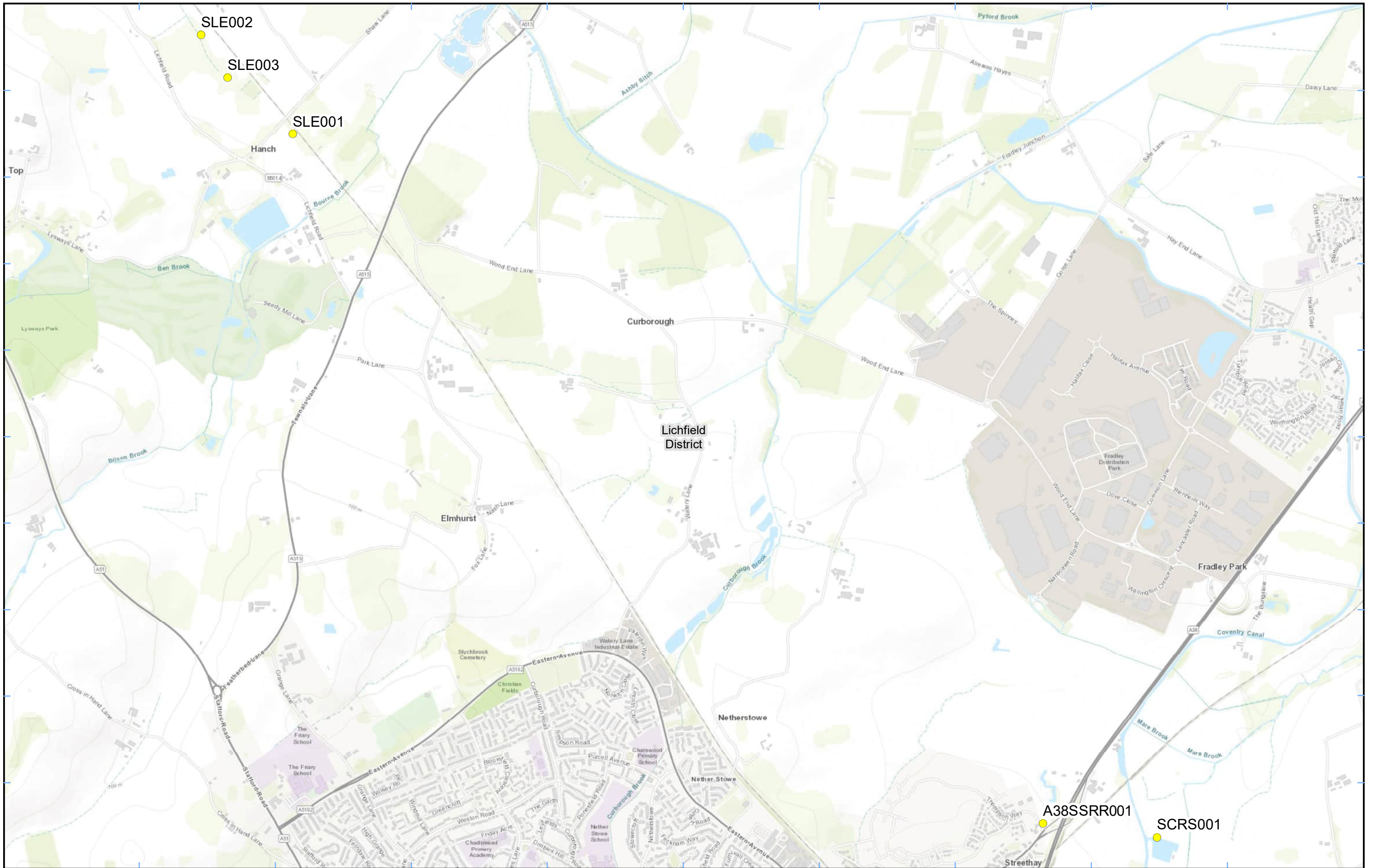
1.1.9 No (0) dust trigger alerts recorded during the monitoring period (July 2023).

- 1.1.10 Data capture was below 90% for monitor SCRS001 due to a fault with the monitor resulting in the collection of invalid data from 20<sup>th</sup> July 2023 onwards. A site visit is planned to investigate the issue.
- 1.1.11 There were no (0) complaints received during this reporting period (July 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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## Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and July 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 <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	N	4.6	0.5	19.2	0	100.0
SLE002	409903, 314705	New Farm Produce North, Shaw Lane Embankment	L	Yes	N	4.2	0.2	24.1	0	98.3
SLE003	410041, 314481	New Lane Produce South, Shaw Lane Embankment	L	Yes	N	4.0	0.3	19.5	0	100.0
SCRS001	414913, 310498	Streethay Cutting Retaining Structure, King's Orchard Marina	L	Yes	N	4.3	0.5	20.7	0	62.0
A38SSRR001	414315, 310571	Thompson Way, Streethay, Fradley and Streethay	L	Yes	N	4.6	0.5	17.0	0	100.0

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

