November 2022

HS2

Air Quality and Dust Monitoring Monthly Report - November 2022 Lichfield District Council

© HS2 Ltd. gov.uk/hs2



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.

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.

High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2021, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v2.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-governmentlicence/version/2 **OGL** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: psi@nationalarchives.gsi.gov.uk. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



Printed in Great Britain on paper containing at least 75% recycled fibre.

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 November 2022.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring locations for November 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, 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.

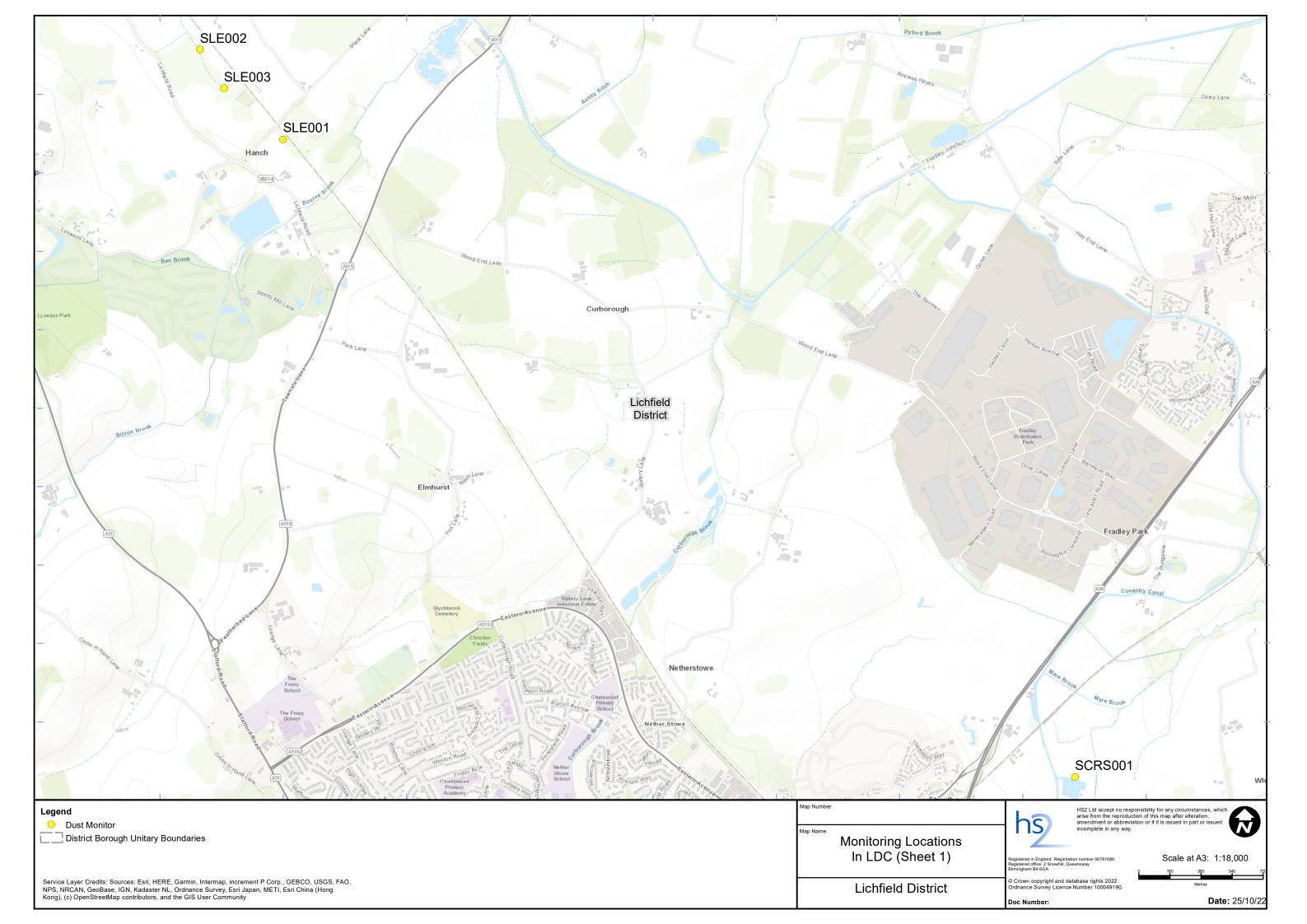
Streethay Cutting Retaining Structure (Sublot 8.3)

- Site clearance:
- Earthworks; and
- Construction works (piling, concrete deliveries).
- 1.1.5 Four (4) dust monitors are installed at worksites, where works are currently 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_{10} concentrations of 190 μ g/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 2 dust trigger alerts recorded during the monitoring period (November 2022).
 All results are presented in Table 3.
- 1.1.9 Data capture was below 90% for multiple monitors due to power supply issues. Batteries have been replaced to prolong operational periods, and a long-term solution is currently being investigated.
- 1.1.10 No (0) complaints were received during the reporting period (November 2022).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and monitoring locations within the LDC



Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and November 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 ₁₀ concentration (µg/m³)	Minimum 1- hour PM ₁₀ concentration (µg/m³)	Maximum 1- hour PM ₁₀ concentration (µg/m³)	Number of 1- hour periods exceeding trigger level of 190 µg/m³	Data capture for Month (%)
SLE001	410383, 314185	Spinney Nurseries, Shaw Lane Embankment	L	Yes	No	15.6	1.0	900.9	2	100.0
SLE002	409903, 314705	New Farm Produce 1, Shaw Lane Embankment	L	Yes	No	3.6	0.1	98.8	0	82.5
SLE003	410041, 314481	New Lane Produce 2, Shaw Lane Embankment	L	Yes	No	3.7	0.1	63.1	0	93.9
SCRS001	414913, 310498	Streethay Cutting Retaining Structure, King's Orchard Marina	L	Yes	No	9.4	0.1	91.5	0	59.4

Table 2: Summary of exceedances during period (November 2022)

Monitoring Site ID	Period of trigger alert &	Investigation	Outcomes / Resolution / Remedial measures
	Concentration recorded		implemented
SLE001	06/11/2022: 00:00 – 00:59; 371.7 μg/m ³ 01:00 – 01:59; 900.9 μg/m ³	There were no construction works within the vicinity of the monitor during this time period, and it is considered that these exceedances are due to smoke generated from fireworks and bonfires within the vicinity of the monitor. Monitoring indicates elevated PM10 concentrations starting at about 20:00 on the 5th November, and continuing until approximately 11:00 on the 6th November.	N/A

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

