

## Air Quality and Dust Monitoring Monthly Report – June 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 June 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:

## **Whittington Common Cutting (Sublot 8.1)**

- Stockpiling material hauled in from Watling Street.
- Road sweeping on Lichfield Road.
- Tidying up site.

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

- No works at this location.

## **Streethay Cutting Retaining Structure (Sublot 8.3)**

### Streethay Area 1 works:

- Deliveries and collections.
- Road sweepers.
- Drainage installation.

### Streethay Area 3/4/5 works:

- Construction of the new road including excavation and backfill.
- Drainage installation for the slip road.
- Tarmac installation.
- Asphalt deliveries.
- Maintenance activities and preparation for the next stage (including stone delivery and concrete activities).

Streethay Area 7 works:

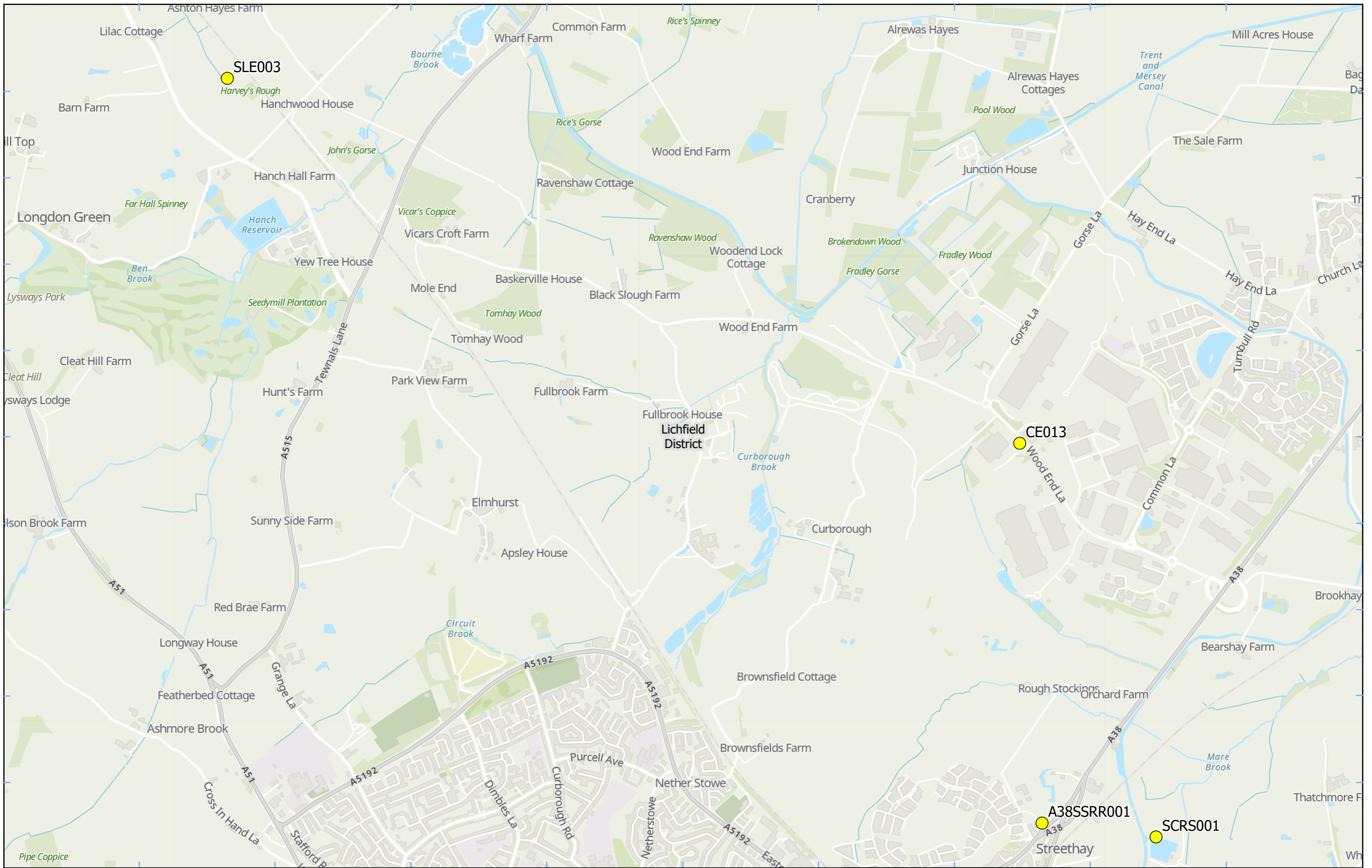
- A38 temporary diversion.
- Section 7C piling.

- 1.1.5 Four (4) 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 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 2.
- 1.1.9 Monitor WCC001 was installed and commissioned on 4<sup>th</sup> June 2024. The data capture for the period the monitor was active is 100%. Monitor WCC002 was installed and commissioned on 6<sup>th</sup> June 2024. The data capture for the period the monitor was active is 99.8%.
- 1.1.10 There were no (0) complaints received during the reporting period (June 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: GB Topographic: Contains OS data © Crown Copyright and database right 2023  
 Contains data from OS Zoomstack

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

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Doc Number: \_\_\_\_\_

Scale at A3: 1:18,000

Metres

Date: 26/03/24

## 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                 | N                         | Yes                                  | No  | 6.4   | 0.3  | 38.0   | 0  | 100.0                      |
| SCRS001            | 414913, 310498    | Streethay Cutting Retaining Structure, King's Orchard Marina | M                         | Yes                                  | No  | 5.5   | 0.6  | 34.4   | 0  | 100.0                      |
| A38SSRR001         | 414315, 310571    | Thompson Way, Streethay, Fradley and Streethay               | M                         | Yes                                  | No  | 6.3   | 0.4  | 39.5   | 0  | 100.0                      |
| CE013              | 414198, 312565    | Midlands Karting, Wood End Lane                              | M                         | Yes                                  | No  | 7.9   | 0.2  | 317.9  | 2  | 100.0                      |
| WCC001             | 414690, 308373    | Whittington Hill Farm, Darnford Lane                         | L                         | Yes                                  | N/A   | 6.4   | 0.8  | 27.4   | 0  | 87.9                       |
| WCC002             | 414835, 308258    | Ellfield House, Darnford House                               | L                         | Yes                                  | N/A   | 5.9   | 0.6  | 25.3   | 0  | 81.7                       |

Table 2: Summary of exceedances during period (June 2024)

| Monitoring Site ID | Period of trigger alert & Concentration recorded   | Investigation   | Outcomes / Resolution / Remedial measures implemented |
|--------------------|--|---|---|
| CE013              | 02/06/2024<br>05:01 - 6:00; 203.6 µg/m <sup>3</sup><br>06:01 - 7:00; 317.9 µg/m <sup>3</sup> | Exceedances occurred outside of current BBV construction hours, and so these exceedances are unlikely to be associated with HS2 construction works. | N/A   |



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

