

Air Quality and Dust Monitoring Monthly Report – July 2025

Solihull Metropolitan Borough 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 Solihull Metropolitan Borough Council (SMBC) during July 2025.
- 1.1.2 Figures 1 to Figure 3 in Appendix A present 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, 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 to Figure 3, include:

Sublot 2B2

Waste Lane Overbridge Satellite

- Autotransformer station works.
- Hydro demobilisation at Burton Green Tunnel.
- Earthworks activities and box shifting.
- Waste Lane diversion works.

Carol Green Rail Underbridge

- Moving traffic.

Sublot 2B3

Balsall Common Viaduct

- Formwork to Balsall Common Viaduct Deck Module 1 Pour 2.
- Concrete to Balsall Common Viaduct Deck Module 1 Pour 2.
- Strike off formwork & Temporary work to Balsall Common.
- Install precast beams for Balsall Common Viaduct (BCV).
- Rebar to Balsall Common Viaduct Deck Module 2 Pour 1.
- Install remaining shutters & edge protection to Pier Head BCV P9.
- Fix Rebar to Pier Head BCV P12.
- Install stop end shutters & Modify Access / Titan BCV P12.

Park Lane

- Remedial work to Dig and Replace Area 3.
- Dig and Replace fill east of culvert.
- Lavender Hall Lane realignment highway embankment fill.
- Moving vehicles and plants on haul road.
- A452 realignment works.

A452 Compound

- A452 realignment works.
- Moving traffic on haul road.

Sublot 5S

Coleshill Heath Road

- Landscape fill.
- Landscape dig.
- Trimming of embankment batters.
- Galldris mobilisation in area and offloading of deliveries.
- Excavation of Bachy Soletanche Balfour Beatty Ground Engineering joint venture (SB3) Extension Platform.
- Phase 1 construction of track drainage.
- Material crushing.

Coleshill Heath Road Underbridge

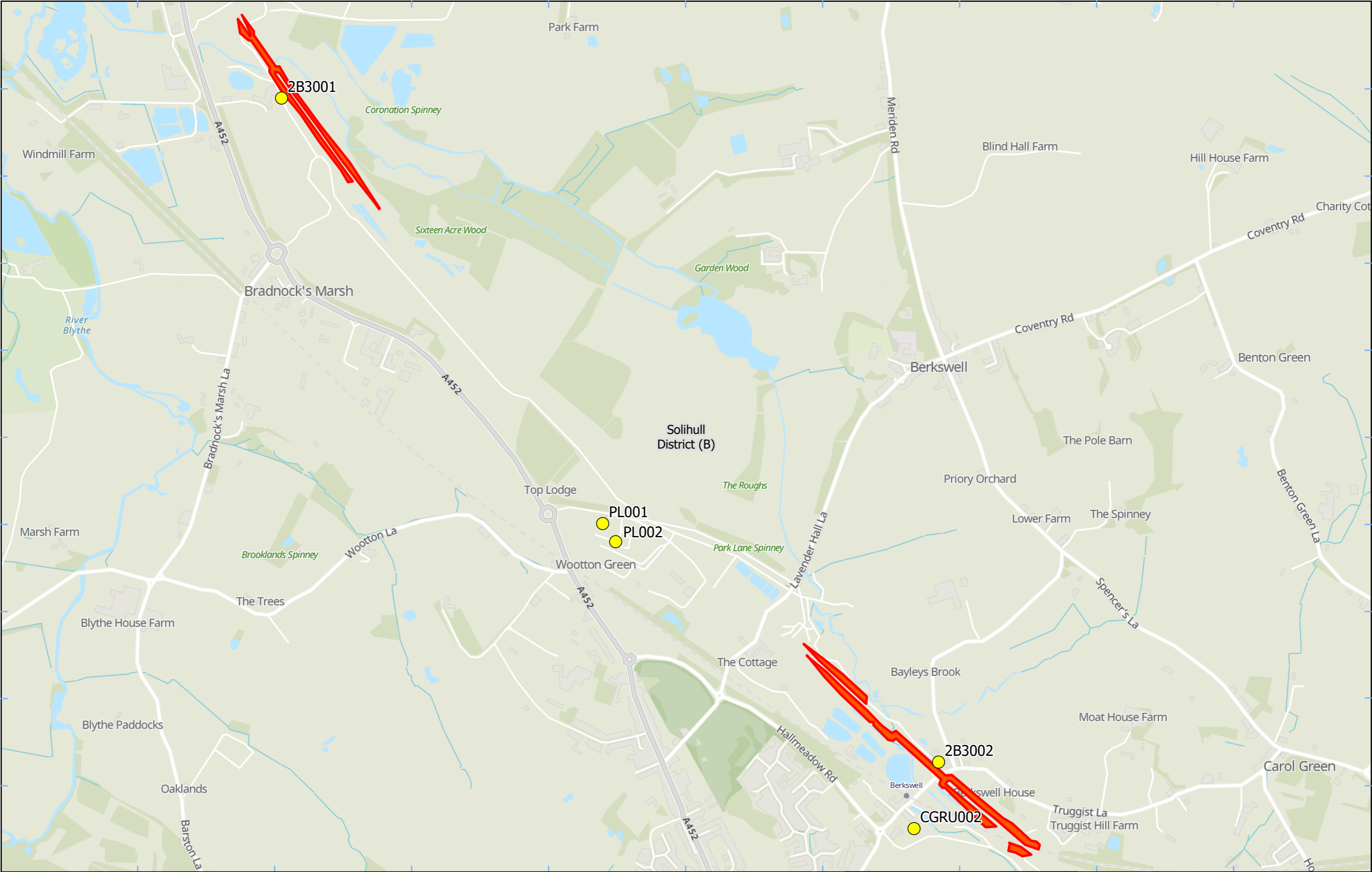
- Technical backfill of pile cap.
- Pile cap excavation.
- Pile cropping.
- Ongoing stockpile management.

- 1.1.5 Ten (10) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium 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 4. 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 PM₁₀ concentrations of 190 µg/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.

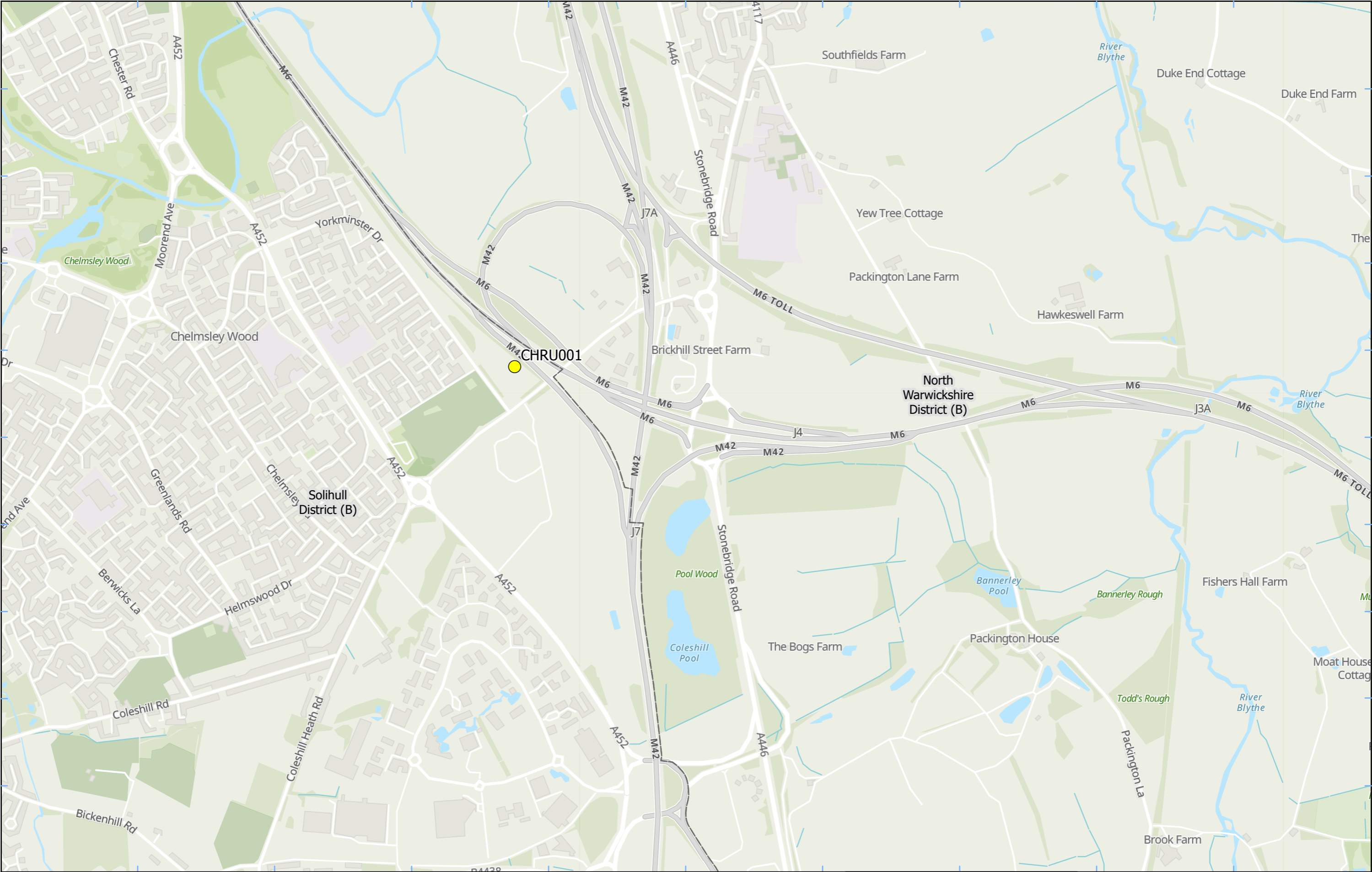
- 1.1.8 No (0) dust trigger alerts were recorded during the monitoring period (July 2025).
- 1.1.9 There were no (0) complaints received during this reporting period (July 2025).

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within SMBC



Legend Dust Monitor Worksite District Borough Unitary Boundaries	Map Number	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Scale at A3: 1:12,000 Metres © Crown copyright and database rights 2025. Ordnance Survey Licence Number 100049190. Date: 02/04/25
	Map Name Worksite and Monitoring Locations In SMBC (Sheet 1)	
	Solihull Metropolitan Borough	
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Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name

**Monitoring Locations
In SMBC (Sheet 2)**

Solihull Metropolitan Borough

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Scale at A3: 1:12,000

Metres

Date: 26/03/24

Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

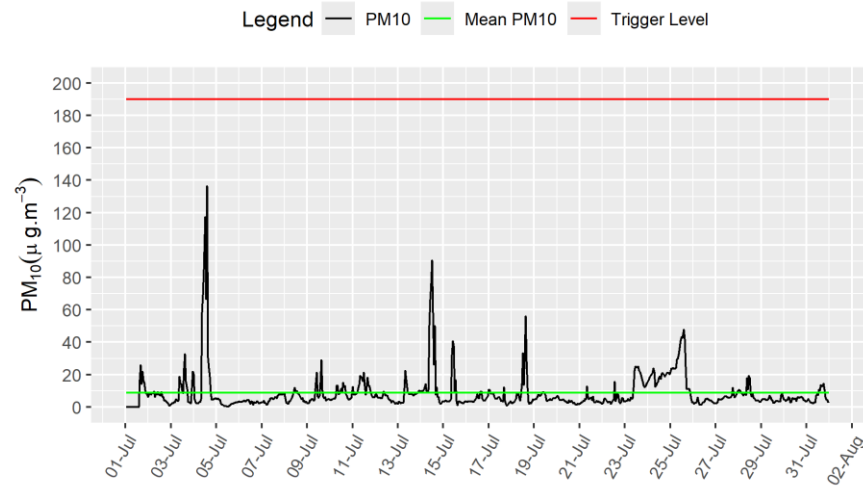
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture Month (%)
2B3001	422322, 280034	Sublot 2B3, at Marsh Farm	M	Yes	No	8.6	1.2	39.3	0	93.0
2B3002	424601, 277729	Sublot 2B3, at Cherry Tree Cottage	M	Yes	No	7.1	0.1	75.6	0	100.0
CHRU001	419300, 286793	Bluebell Drive, Coleshill Heath Road Underbridge	M	Yes	No	8.4	0.4	42.9	0	100.0
PL001	423436, 278557	Park Lane	M	Yes	No	3.8	0.1	56.1	0	97.0
PL002	423481, 278494	Final Home, Park Lane	M	Yes	No	8.7	0.1	136.5	0	98.1
DLE001	421035, 281818	Diddington Lane	M	Yes	No	6.9	0.2	28.0	0	100.0
DLE002	421139, 282222	Hampton Hill Farmhouse	M	Yes	No	2.1	0.1	149.4	0	95.7
BIS001	420284, 283503	Hollywell Brook	M	Yes	No	6.2	0.1	36.2	0	99.9
CGRU001	424454, 277483	Annora House	M	Yes	No	7.0	0.1	36.5	0	100.0

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/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture Month (%)
BBE001	421656, 281313	Patrick Farmhouse	M	Yes	No	1.3	0.1	11.3	0	97.2

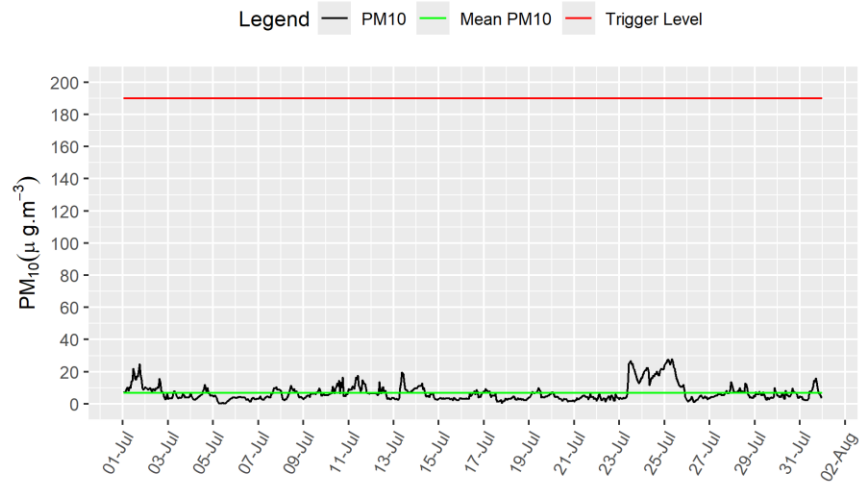
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



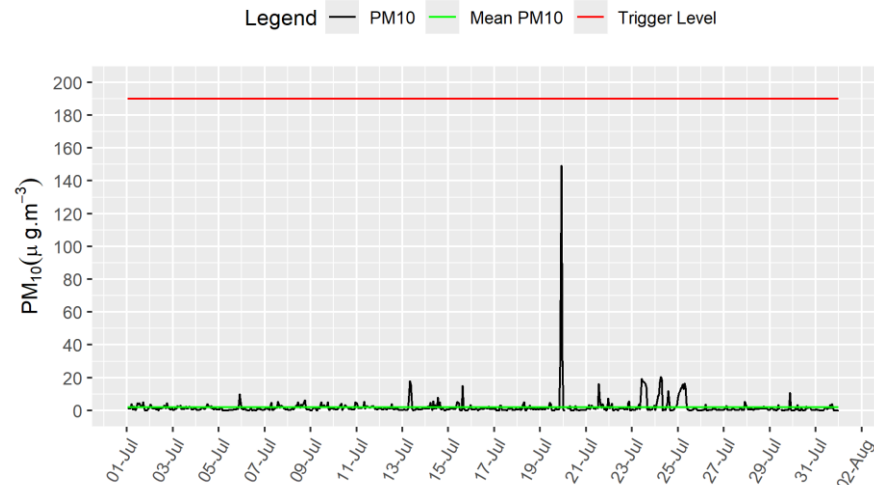
PL002



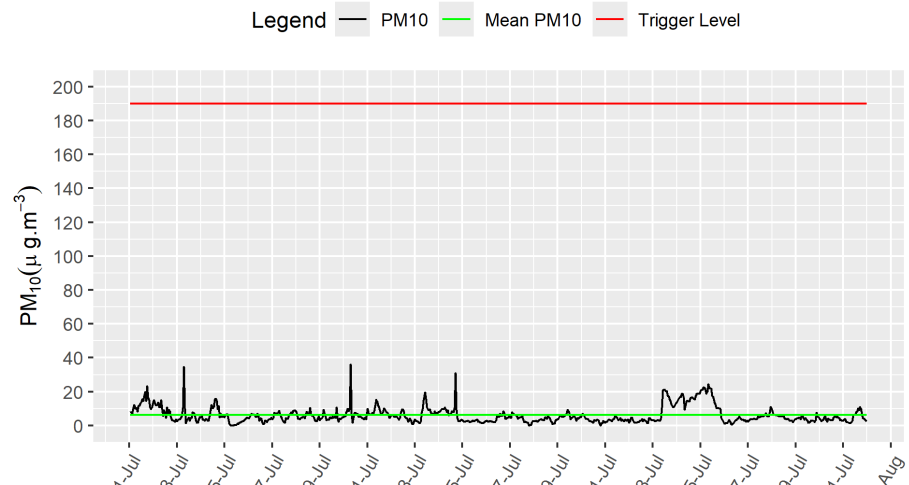
DLE001



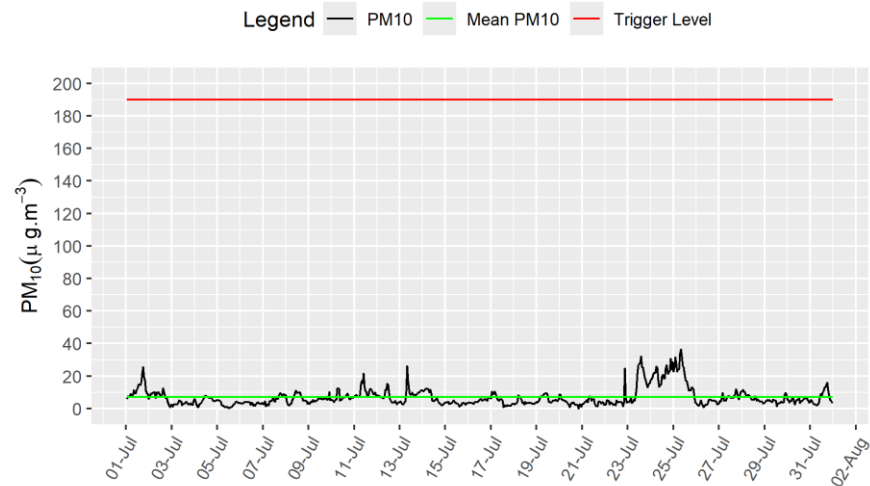
DLE002



BIS001



CGRU002



BBE001

