

February 2024

Air Quality and Dust Monitoring Monthly Report – February 2024

Solihull Metropolitan Borough Council





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 February 2024.
- 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

- Galldris excavation works for Burton Green Tunnel.
- Jet washing the tunnel walls.

Carol Green Rail Underbridge

- Train freight movement/laydown area set up also used to park Articulated Dump Truck (ADT) and excavators / barrets storage area.
- Wheel washer operating / deliveries entering.

Sublot 2B3

Balsall Common Viaduct

- Piling works by SB3.
- Haul road traffic.
- Truggist Lane traffic.

<u>Park Lane</u>

- Material stockpile and reload / moving plant.
- M215 piling demobilization.
- Haul road traffic.
- Structures piling for Lavender Overbridge.

Sublot 5S

Coleshill Heath Road

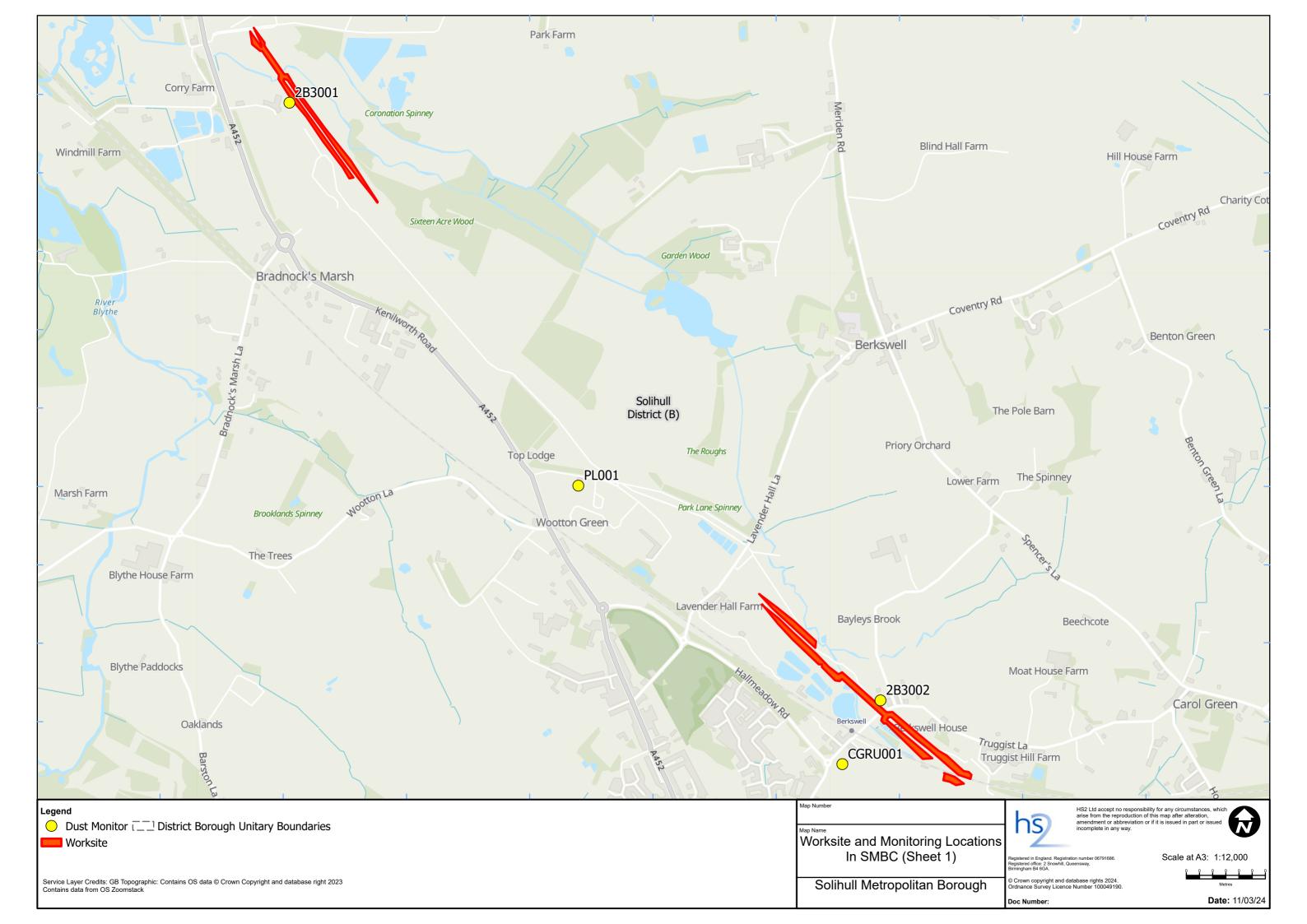
- Stockpile management ongoing.
- Excavate, Lay duct, backfill, reinstate.
- Stockpile management ongoing.

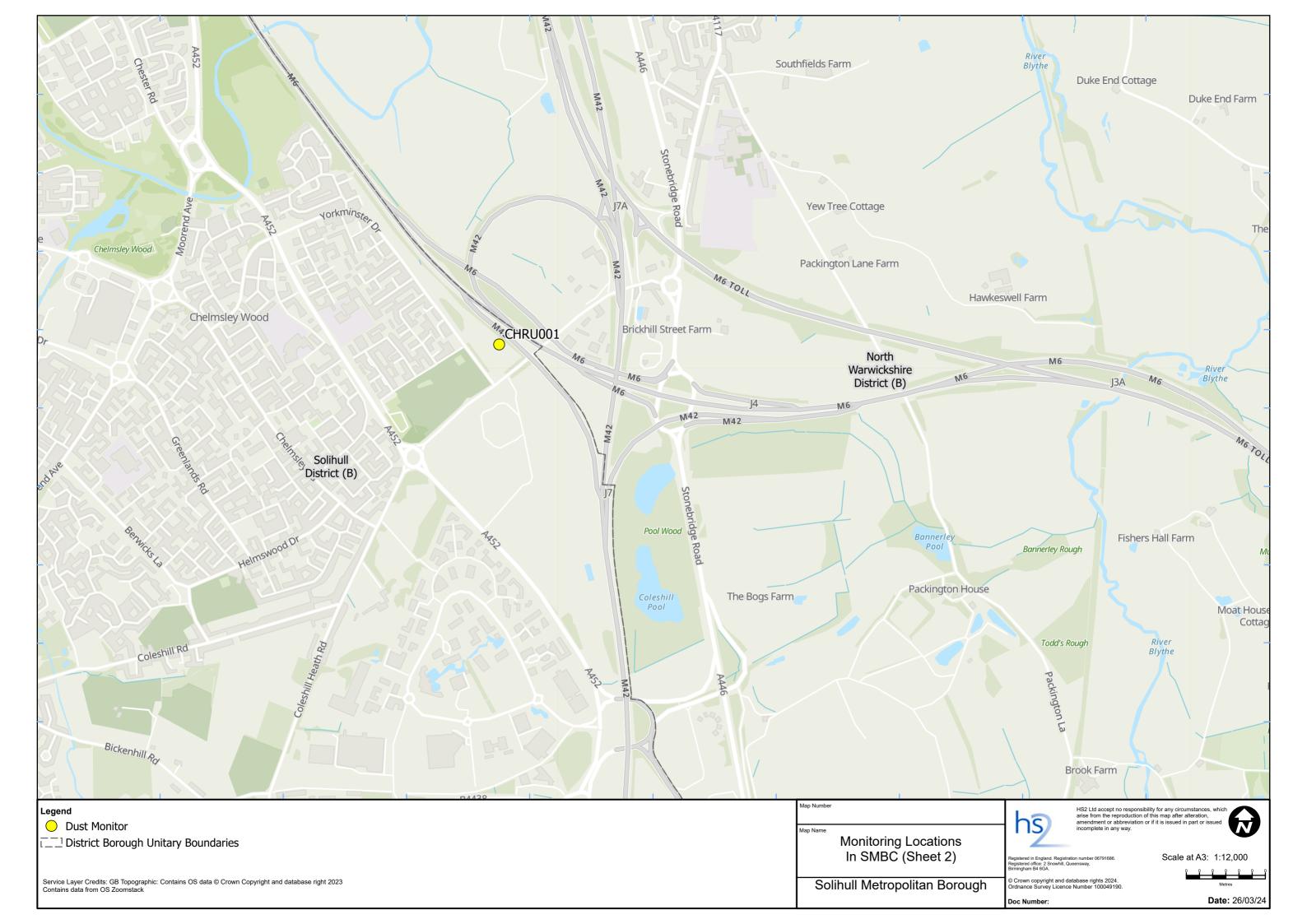
Coleshill Heath Road Underbridge

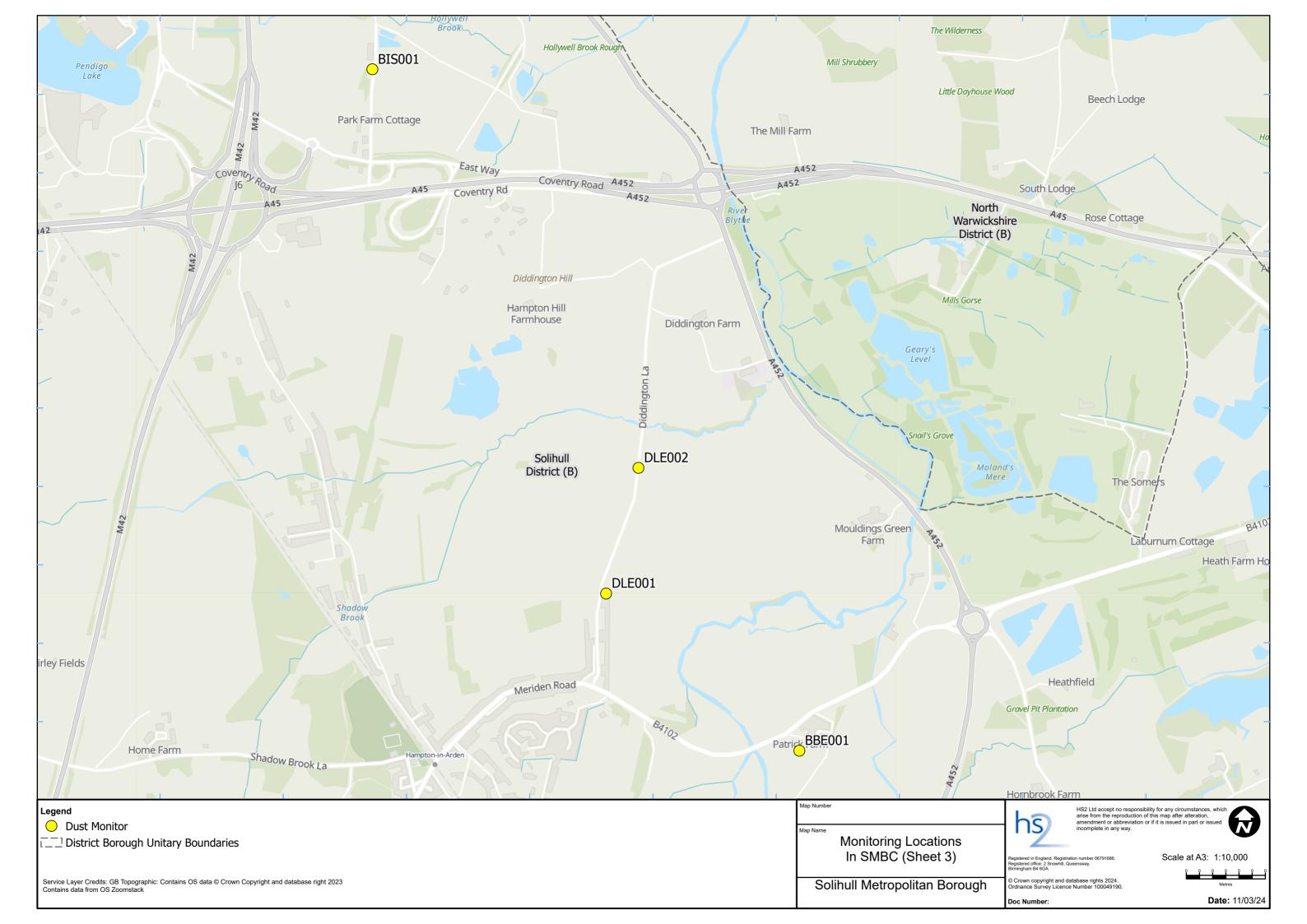
- Rigid inclusions.
- Pile cropping.
- Piling.
- Pile cap excavation.
- Steel fixing.
- Formwork striking.
- Stockpile management ongoing.
- 1.1.5 Nine (9) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.
- 1.1.6 Dust 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 (February 2024).
- 1.1.9 Data capture was below 90% for the DLE002 monitor. From the 7th February 2024, the monitor did not report any concentrations of PM₁₀, and it was determined that the monitor would need investigating to determine the issue. A battery refresh was undertaken on 14th February 2024 and a full dust work up was undertaken on 21st February 2024, but this did not resolve the issue. The monitor was swapped out on 29th February 2024 when a new one became available.
- 1.1.10 There were no (0) complaints received during this reporting period (February 2024).
- 1.1.11 Monitor BBE001 was installed and commissioned on 6th February 2024.

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within SMBC







Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

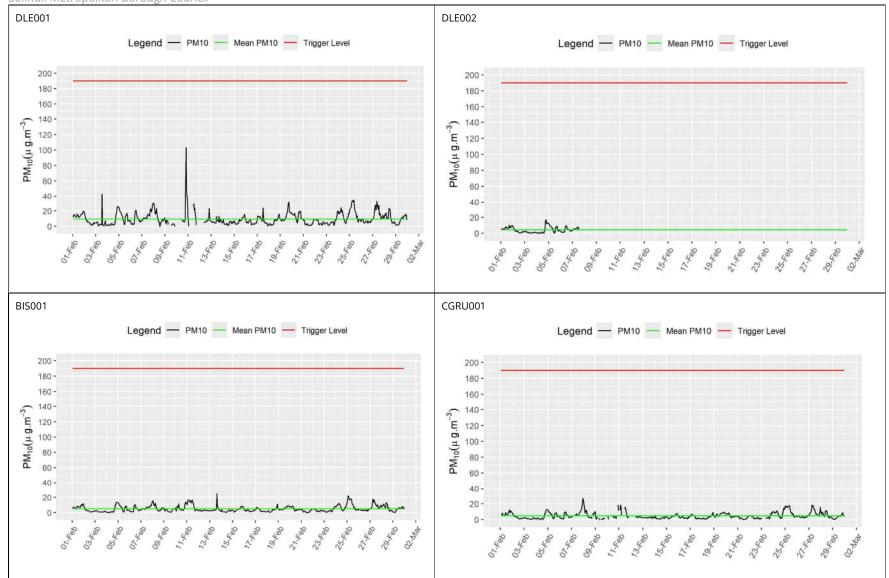
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1- hour PM ₁₀ concentration (µg/m ³)	Maximum 1- hour PM ₁₀ concentration (µg/m ³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	Data capture Month (%)
2B3001	422322, 280034	Sublot 2B3, at Marsh Farm	М	Yes	No	5.1	0.1	26.3	0	98.3
2B3002	424659, 277691	Sublot 2B3, at Cherry Tree Cottage	м	Yes	No	5.1	0.1	29.0	0	99.4
CHRU001	419300, 286793	Bluebell Drive, Coleshill Heath Road Underbridge	L	Yes	No	2.0	0.1	14.8	0	97.1
PL001	423436, 278557	Final Home, Park Lane	М	Yes	No	8.0	0.1	44.2	0	100.0
DLE001	421035, 281818	Diddington Lane	М	Yes	No	9.5	0.1	103.4	0	94.1
DLE002	421139, 282222	Hampton Hill Farmhouse	М	Yes	No	4.2	0.1	16.6	0	22.6
BIS001	420284, 283503	Hollywell Brook	M	Yes	No	4.9	0.1	24.6	0	100.0
CGRU001	424454, 277483	Annora House	М	Yes	No	4.8	0.1	26.8	0	95.0
BBE001	421656, 281313	Patrick Farmhouse	Μ	Yes	N/A	5.3	0.1	21.5	0	80.6

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



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