

Air Quality and Dust Monitoring Monthly Report – April 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 April 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

- Earthworks.
- Reinforcement works.
- Concrete pouring.
- Installing working platforms.
- Construction and reinforcement works of wall.
- Precast beam installation.
- Deck reinforcement work.

Carol Green Rail Underbridge

- M191 (public right of way) parapet and wing wall installation.
- Concrete finishing works.

Sublot 2B3

Balsall Common Viaduct

- Still fixing and pier filling works.

Park Lane

- Landscape fill.
- Cutting.
- Haul road construction.

- Remedial works.
- Topsoil strip.
- Drainage works.
- Landscaping.
- Flood compensation layer.
- Dig & Replace.

Sublot 5S

Coleshill Heath Road

- Landscaping.
- Excavation.
- Pile cropping.
- Constructing crane platform.

Coleshill Heath Road Underbridge

- Excavation.
- Pile cropping.
- Pile cap reinforcement.
- Material excavation.

- 1.1.5 Ten (10) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, 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 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 3.
- 1.1.9 Data capture was below 90% for monitor BIS001. A fault investigation site visit was done on 8th April 2025, and a field calibration was done on 17th April 2025. A monitor swap out is scheduled for 20th May 2025.

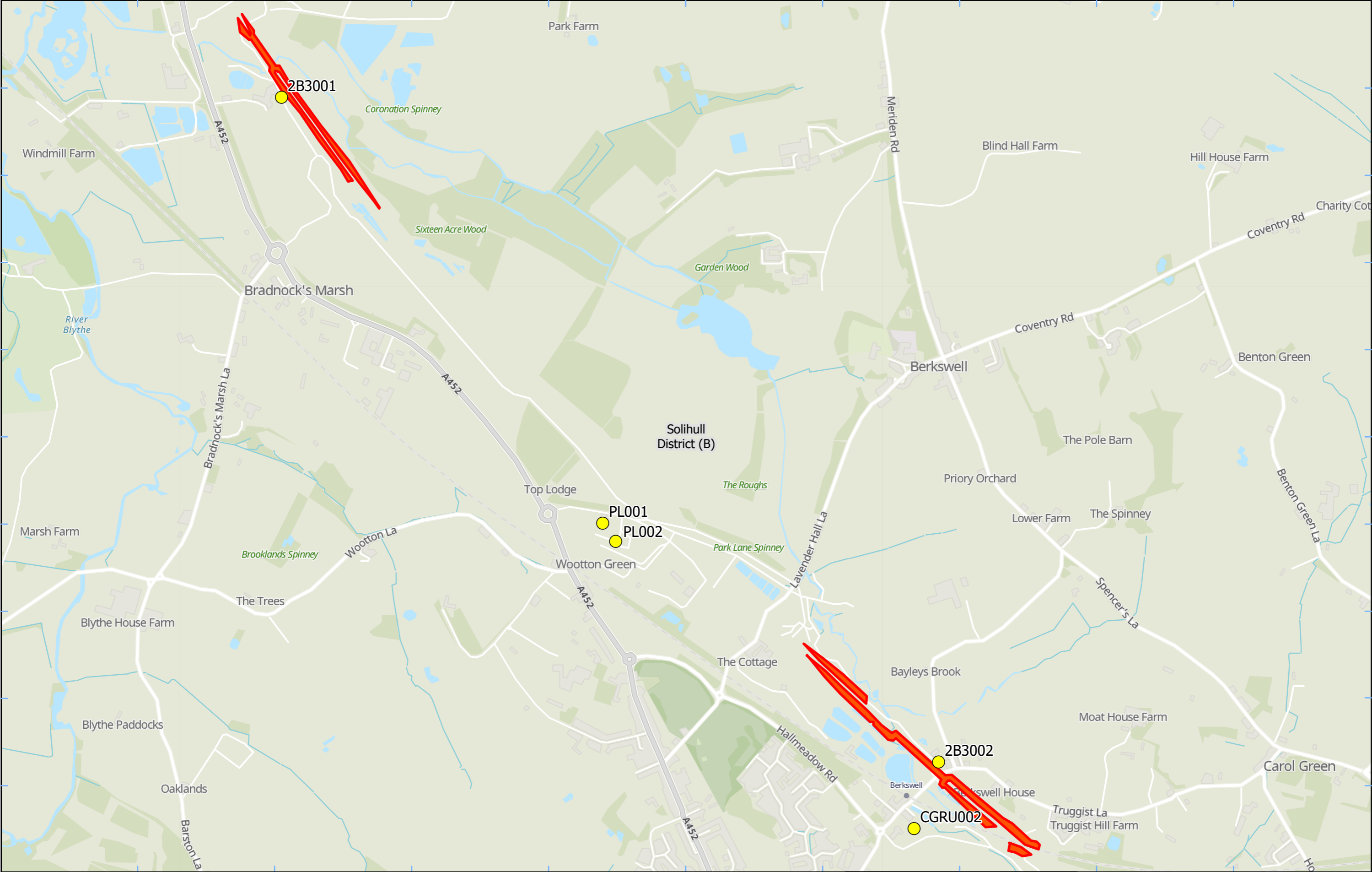
1.1.10 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during April 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46243-C	N/A	Increased amount of dust experienced at property.	Dust monitors are installed in high-impact areas where major construction occurs. All monitors were checked no exceedances were breached. Extra mitigation is now in place near residential areas Dust suppression techniques such as damping down work areas and haul roads Continuous monitoring of wind speed, wind direction, and dust levels, Use of natural or artificial windbreaks Suspension of earthmoving activities during high winds Deployment of water cannons at boundaries when required. Resident has been updated.
HS2-25-46249-C	N/A	Large amounts of dust noted at property.	All dust monitors were checked no exceedances were breached. Extra mitigation is now in place near residential areas during drier weather e.g. Damping down, artificial windbreaks, suspension of earthmoving activities during high winds use of water cannons. Resident has been updated.
HS2-25-46323-C	N/A	Dust on residents windows and vehicle.	Enquiry from local council, which has been investigated under residents' details.

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within SMBC



Legend

- Dust Monitor
- Worksite
- District Borough Unitary Boundaries

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Map Number

Map Name

**Worksite and Monitoring Locations
In SMBC (Sheet 1)**

Solihull Metropolitan Borough

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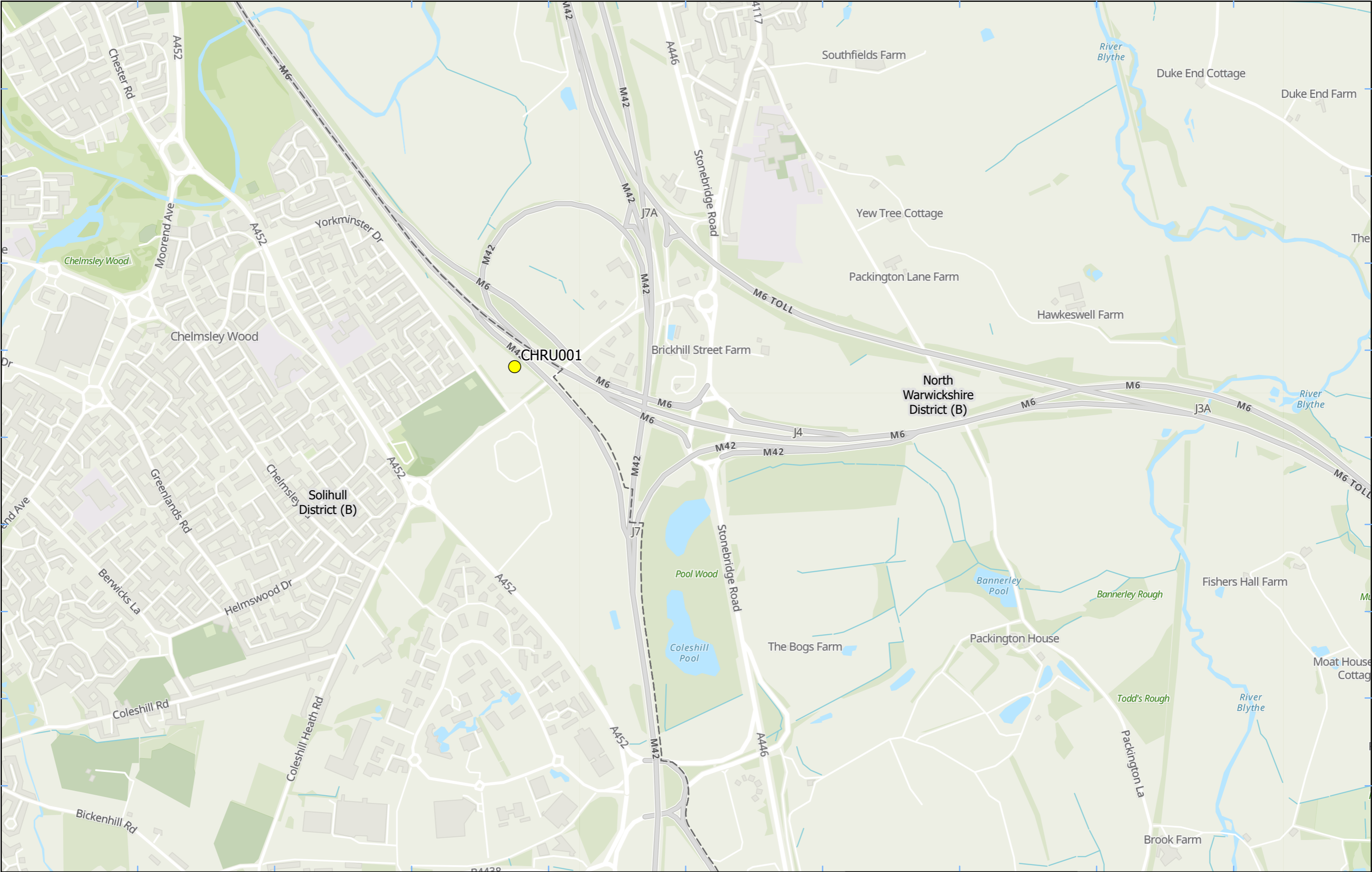
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Metres

Date: 02/04/25



Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name

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

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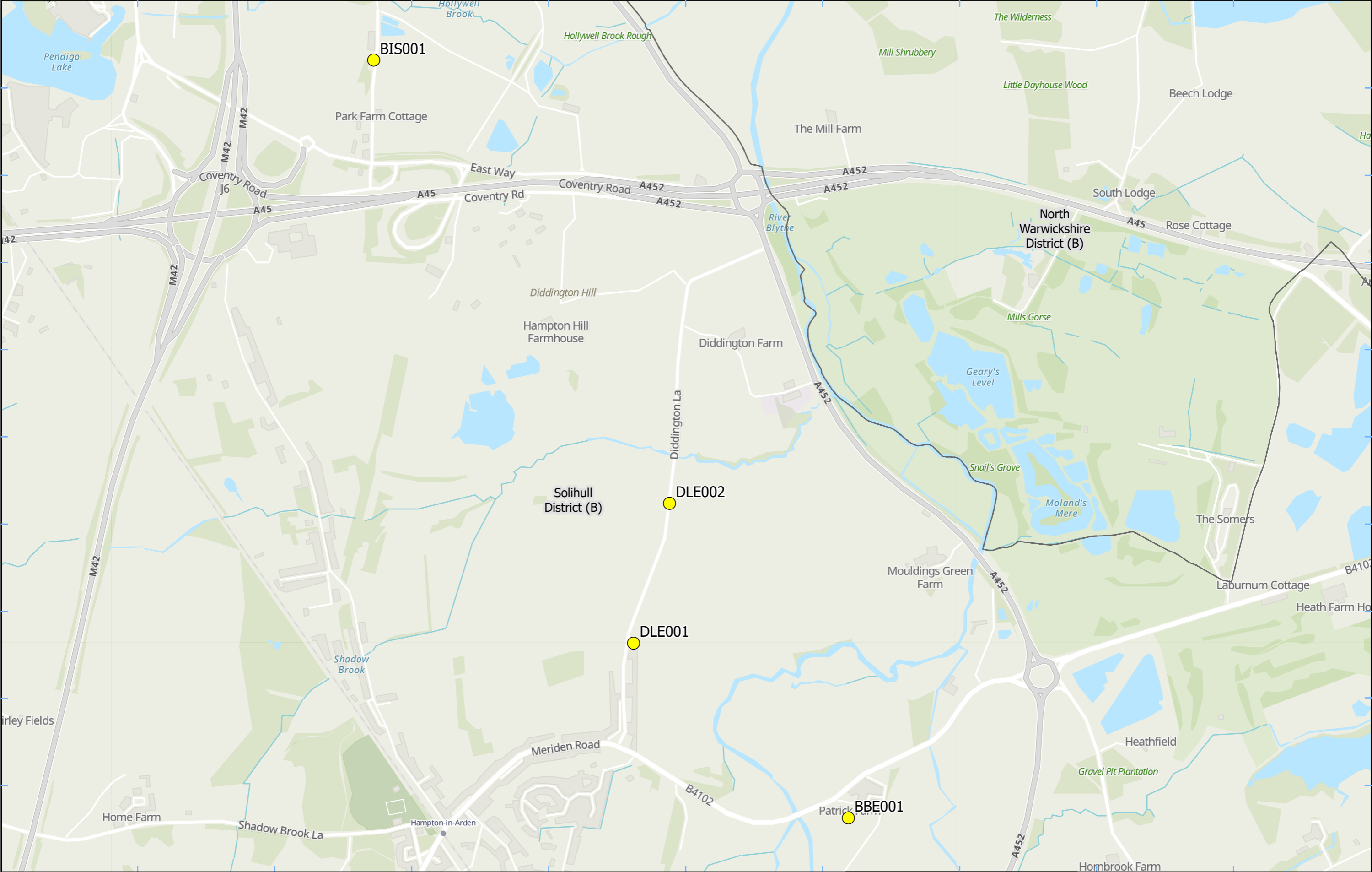
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Legend

 Dust Monitor

 District Borough Unitary Boundaries

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Map Number

Map Name

**Monitoring Locations
In SMBC (Sheet 3)**

Solihull Metropolitan Borough



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Date: 11/03/24

Appendix B – Dust Monitoring Results

Table 2: Dust Monitoring Locations and Results

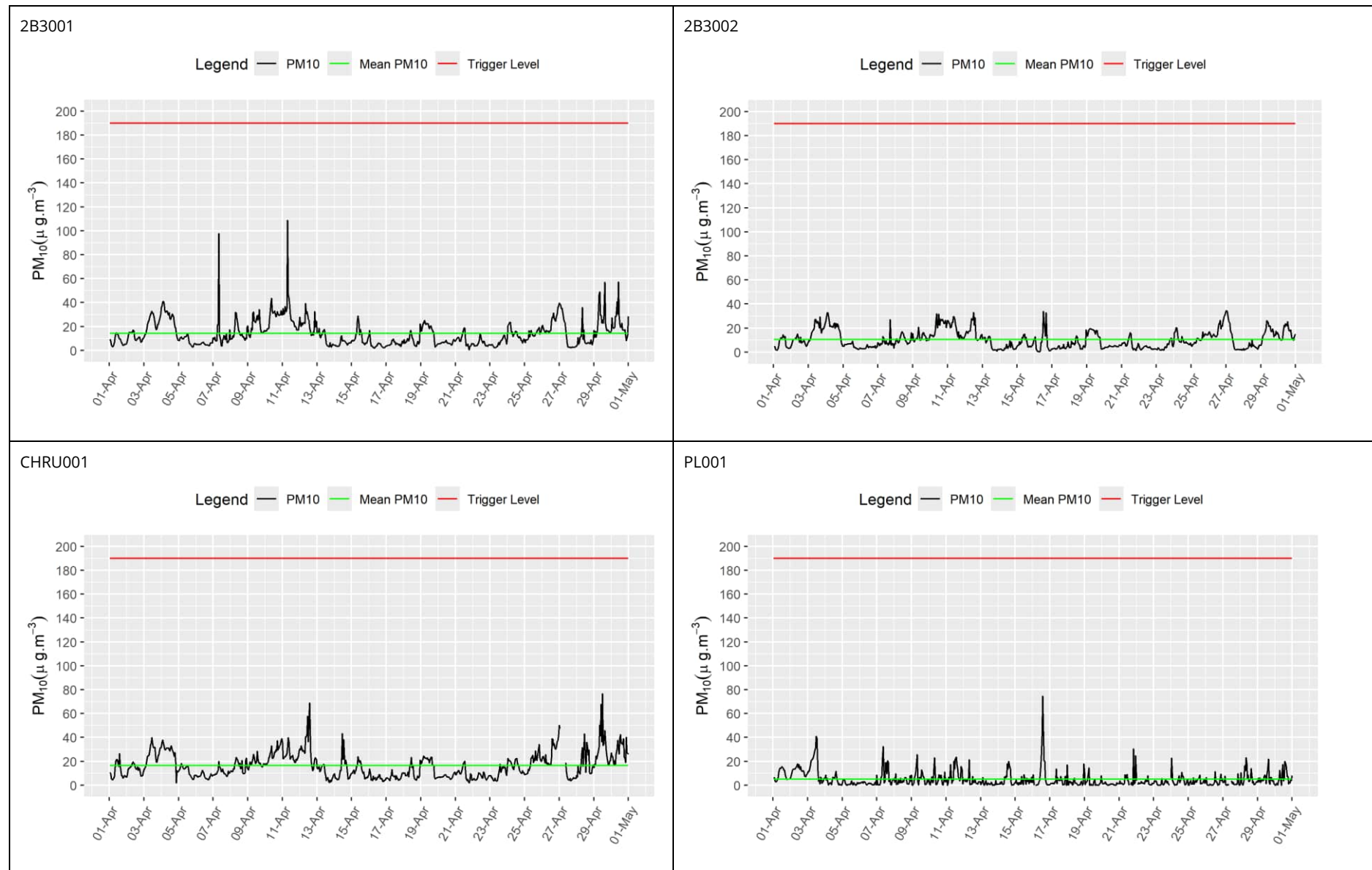
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number 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	14.3	0.5	108.9	0	100.0
2B3002	424601, 277729	Sublot 2B3, at Cherry Tree Cottage	M	Yes	No	10.6	0.2	34.5	0	100.0
CHRU001	419300, 286793	Bluebell Drive, Coleshill Heath Road Underbridge	M	Yes	No	16.4	1.8	76.6	0	99.0
PL001	423436, 278557	Park Lane	M	Yes	No	5.0	0.1	74.7	0	95.6
PL002	423481, 278494	Final Home, Park Lane	M	Yes	No	13.3	0.5	95.4	0	100.0
DLE001	421035, 281818	Diddington Lane	M	Yes	No	13.9	1.2	58.6	0	100.0
DLE002	421139, 282222	Hampton Hill Farmhouse	M	Yes	No	15.0	1.2	653.4	4	100.0
BIS001	420284, 283503	Hollywell Brook	M	Yes	No	-	-	-	0	-
CGRU002	424516, 277498	Annora House	M	Yes	Yes	11.8	0.2	39.1	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	12.9	0.4	51.9	0	100.0

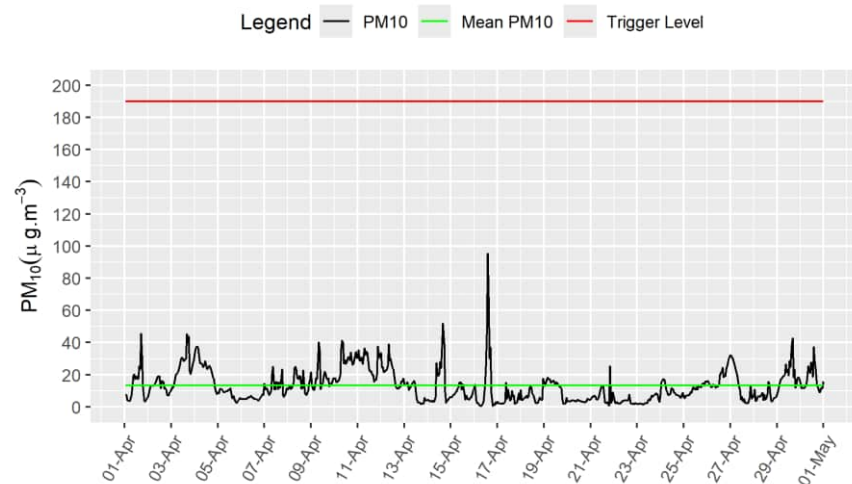
Table 3: Summary of exceedances during period (April 2025)

Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
DLE002	13/04/2025: 10:01 - 11:00; 207.9 µg/m ³ 11:01 - 12:00; 516.9 µg/m ³ 16:01 - 17:00; 653.4 µg/m ³ 17:01 - 18:00; 230.3 µg/m ³	These exceedances occurred outside of current BBV working hours, so these exceedances were not associated with current HS2 construction works.	N/A

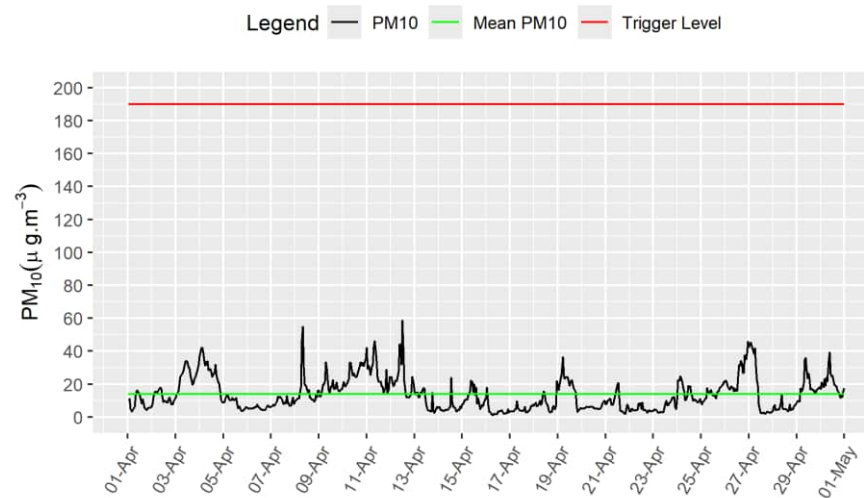
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



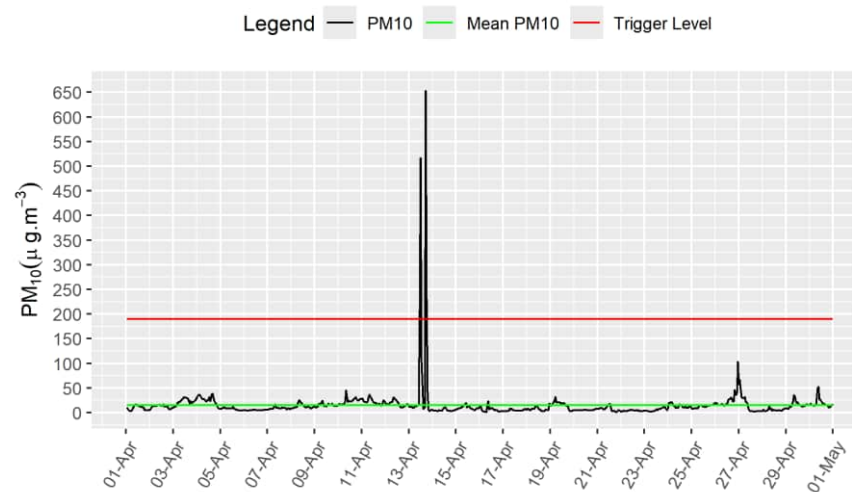
PL002



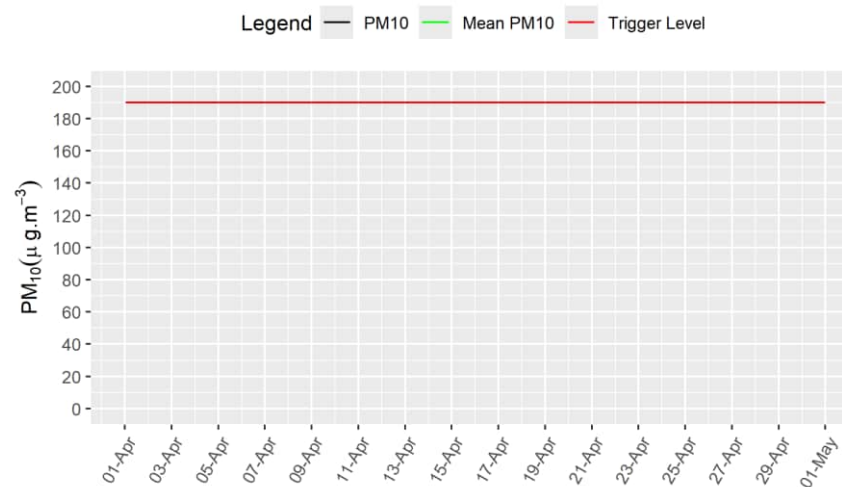
DLE001



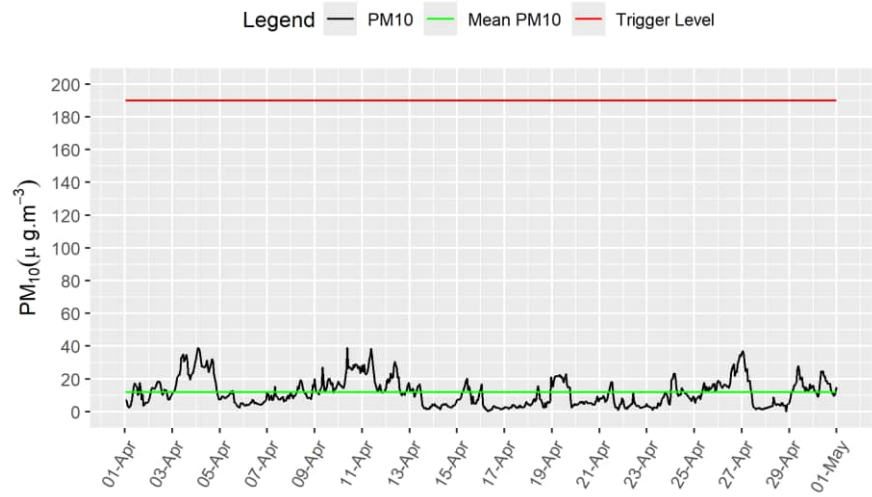
DLE002



BIS001



CGRU002



BBE001

