

Air Quality and Dust Monitoring Monthly Report – December 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 December 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

- Burton Green Tunnel works.

Carol Green Rail Underbridge

- Moving traffic.

Sublot 2B3

Balsall Common Viaduct

- Moving traffic.

Park Lane

- M214 erection of scaffolding.
- M215 haul road diversion.
- Batter retrimming and cleaning of V-ditch.
- Upper embankment fill of Sixteen Acre Wood Embankment.

A452 Compound

- Upper embankment fill of Sixteen Acre Wood Embankment.

Sublot 5S

Coleshill Heath Road

- Abutment strip shutters.
- Wall shuttering.
- Backfilling.
- Pile cap works and blackjack.
- Steel fixing.
- M6 south viaduct launch phase.
- Wall reinforcement.
- Stabilisation.
- Track drainage installation.

Coleshill Heath Road Underbridge

- Cordec and Effco installation.
- Haul road maintenance.
- Stockpiling and transporting of material.

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 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 Data capture was below 90% for multiple monitors due to:

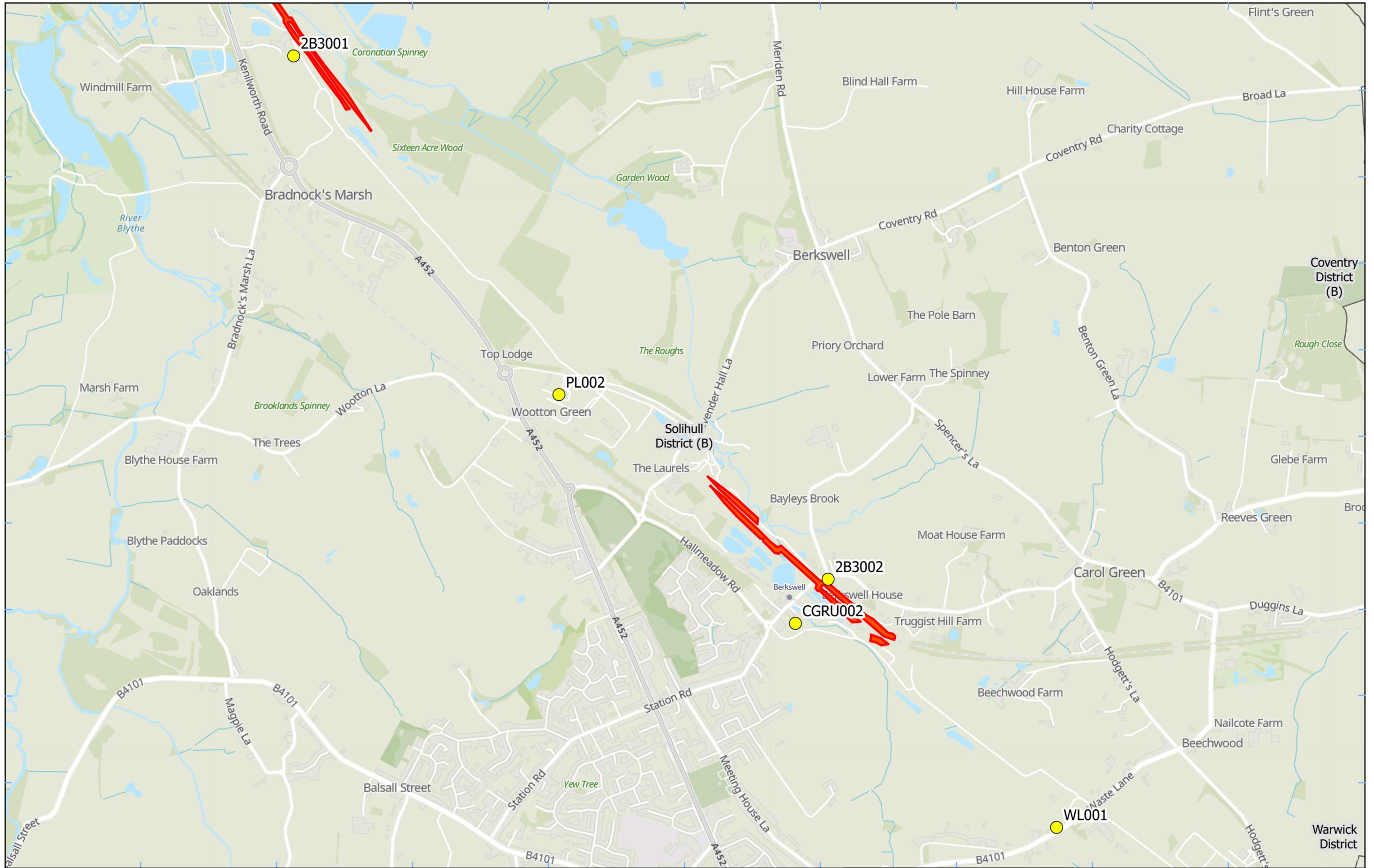
- Monitor 2B3001 - Technical issues. A monitor swap out is scheduled for 9th January 2026.
- Monitor 2B3002 – A battery refresh took place on 7th January 2026. After the site visit, the power supply issues were resolved.
- Monitor BBE001 – A battery refresh is scheduled for 12th January 2026.
- Monitor DLE001 – A battery refresh is scheduled for 16th January 2026.
- Monitor DLE002 – A battery refresh is scheduled for 12th January 2026.
- Monitor PL002 – A battery refresh is scheduled for 14th January 2026.
- Monitor WL001 – A battery refresh is scheduled for 13th January 2026.
- Monitor 2B3001 – a monitor swap out is scheduled for 9th January 2026.

- Monitor BIS001 – a monitor swap out is scheduled for 15th January 2026.
- Monitor CGRU002 – the solar panelling is damaged at this monitor. Maintenance is scheduled for 13th January 2026.

1.1.9 There were no (0) complaints received during this reporting period (December 2025).

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within SMBC



Legend

- Dust Monitor
- District Borough Unitary Boundaries
- Worksite

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Map Number

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

Solihull Metropolitan Borough



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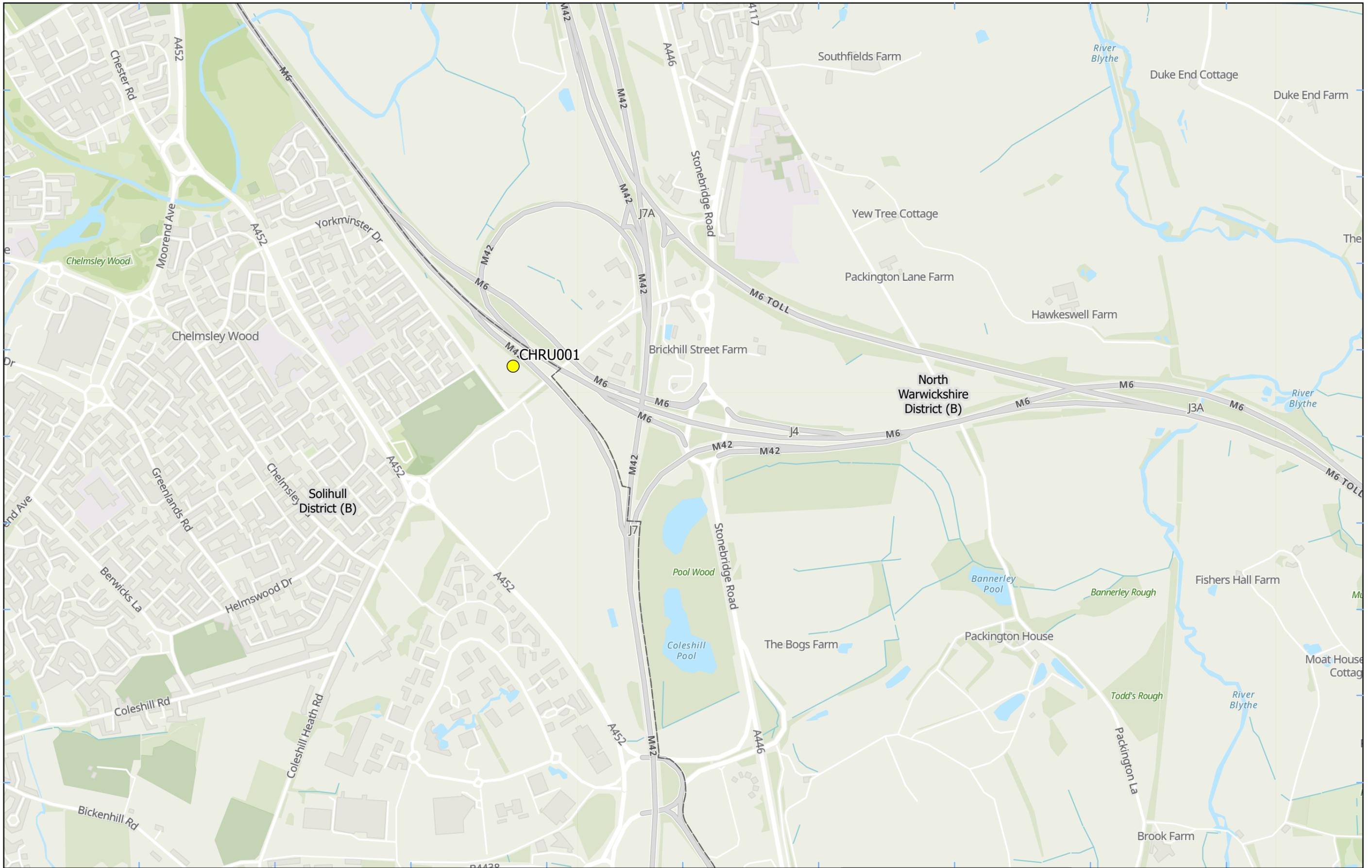


Scale at A3: 1:15,000



Metres

Date: 04/12/25



Legend
 Dust Monitor
 District Borough Unitary Boundaries

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Map Number
 Map Name
**Monitoring Locations
 In SMBC (Sheet 2)**
 Solihull Metropolitan Borough

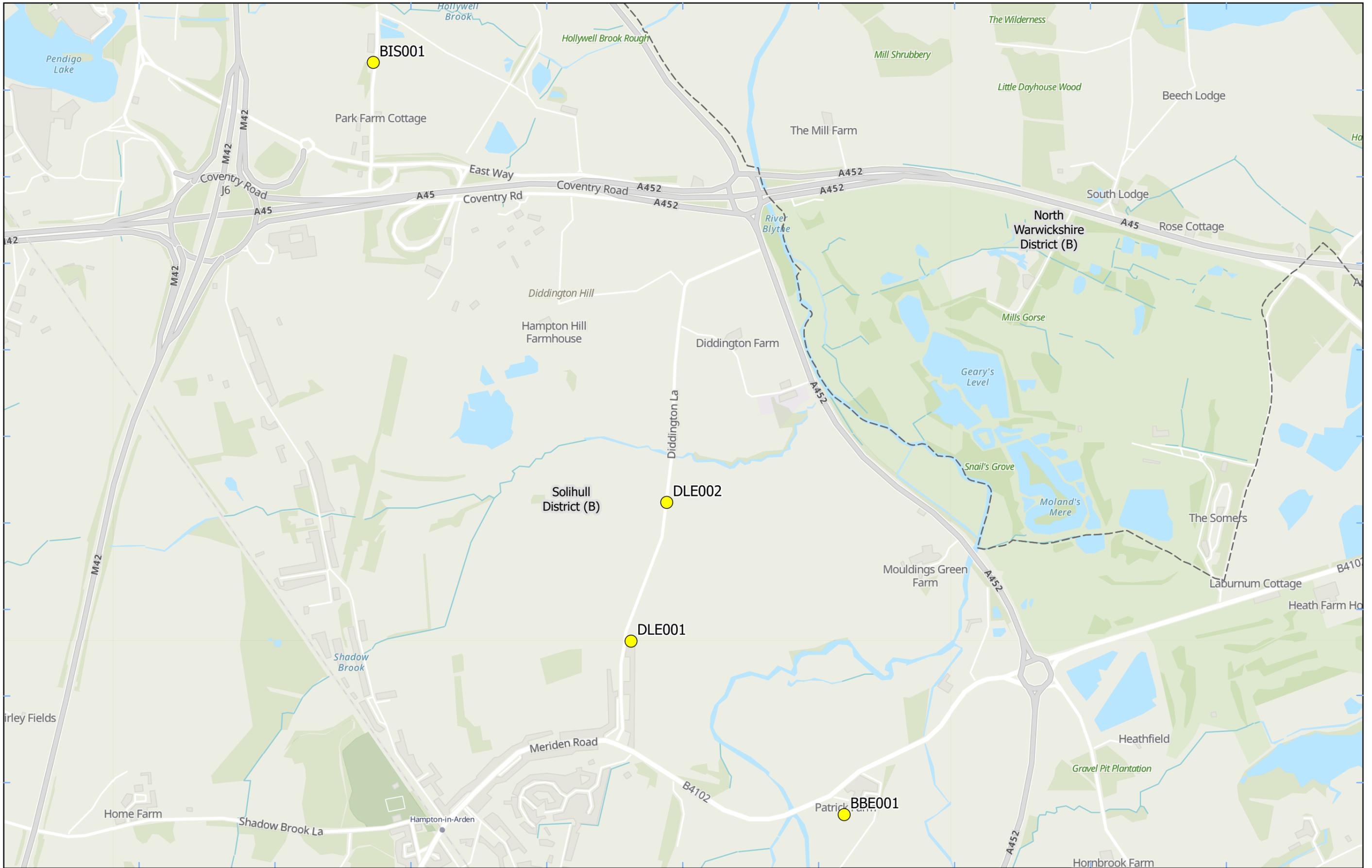
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Legend

- 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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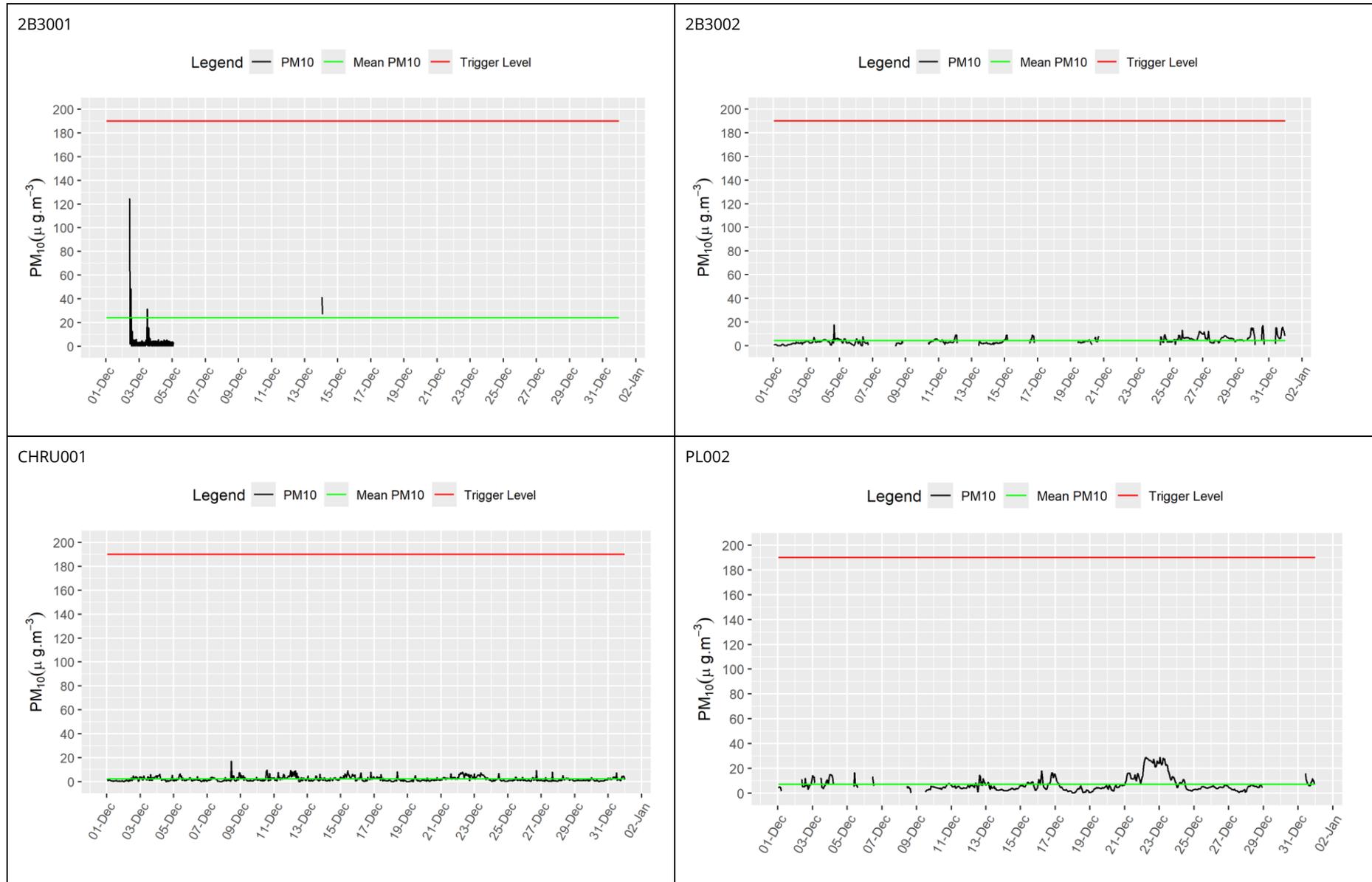
Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

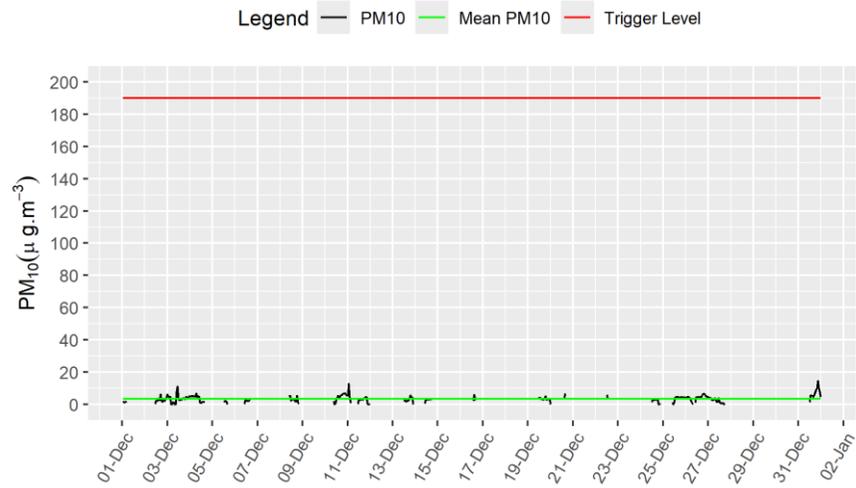
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number 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	24.1	0.3	172.4	0	43.8
2B3002	424601, 277729	Sublot 2B3, at Cherry Tree Cottage	M	Yes	No	4.5	0.1	18.0	0	57.8
CHRU001	419300, 286793	Bluebell Drive, Coleshill Heath Road Underbridge	M	Yes	No	2.3	0.1	17.3	0	99.9
PL002	423481, 278494	Final Home, Park Lane	M	Yes	No	7.2	0.3	29.0	0	72.9
DLE001	421035, 281818	Diddington Lane	M	Yes	No	3.5	0.1	14.8	0	32.1
DLE002	421139, 282222	Hampton Hill Farmhouse	M	Yes	No	-	-	-	-	-
BIS001	420284, 283503	Hollywell Brook	M	Yes	No	-	-	-	-	-
CGRU002	424516, 277498	Annora House	M	Yes	No	5.7	0.1	27.4	0	73.3
BBE001	421656, 281313	Patrick Farmhouse	M	Yes	No	1.8	0.1	12.2	0	46.2

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 (%)
WL001	425630, 276637	Dragonflies	M	Yes	Yes	2.7	0.1	13.7	0	34.8

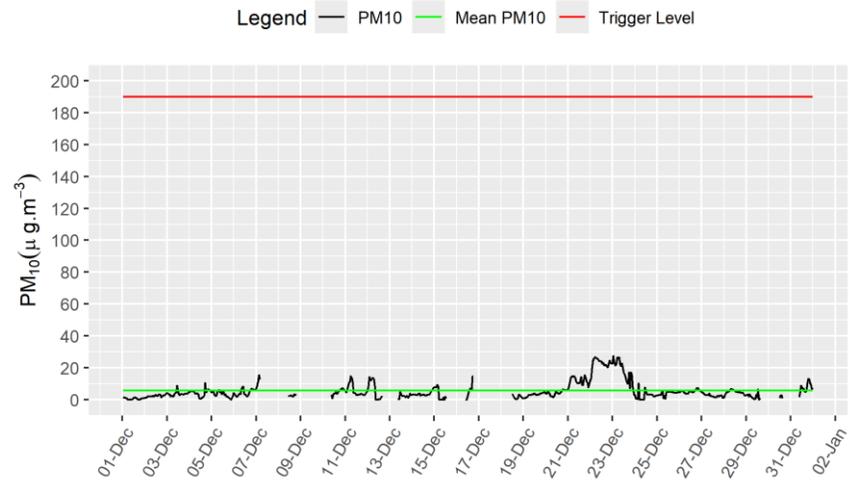
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



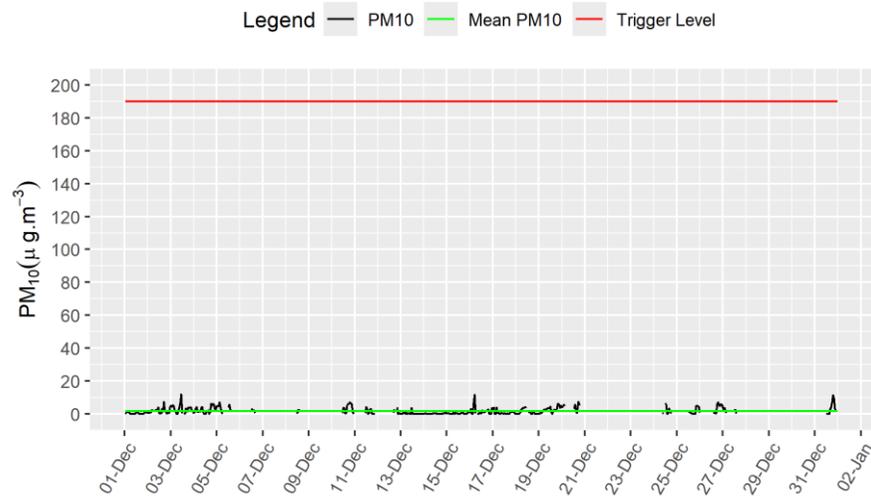
DLE001



CGRU002



BBE001



WL001

