

Air Quality and Dust Monitoring Monthly Report – September 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 September 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 monthly overview monitoring report 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

- Hydro demolition in tunnel plus steel works to voids and void pours.
- M186 overbridge works.
- Waste lane diversion works.

Carol Green Rail Underbridge

- Moving traffic and plant machinery.

Sublot 2B3

Balsall Common Viaduct

- Re-shaping batter around P13 with excavator.
- Pier 13 stem formwork installation.
- Pier 13 installation of Rapidshor.
- Pier 15 stem formwork installed.
- Installation of Rapidshor.

Park Lane

- M214 construction of abutments.
- Stockpile management, general housekeeping, plant parking.
- Tree felling and strimming regrowth.
- M215 technical backfill.

- Tree / bramble cutting and removal of vegetation.
- Construction of access track includes topsoil subsoil strip, grass cutting, hedge cutting and removal of tree routes.
- A452 realignment works.
- Moving traffic.

A452 Compound

- A452 realignment works.
- M215 technical backfill.
- Technical backfill of Marsh Farm viaduct.

Sublot 5S

Coleshill Heath Road

- Landscape fill.
- Lime stabilisation works.
- Embankment batter trimming.
- Ongoing stockpile management and haul road maintenance.

Coleshill Heath Road Underbridge

- Excavation backfill.
- Launching equipment installation.
- Shuttering.
- Steel fixing.
- North abutment platform installation.
- Ongoing stockpile management and haul road maintenance.

- 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 No (0) dust trigger alerts were recorded during the monitoring period (September 2025).

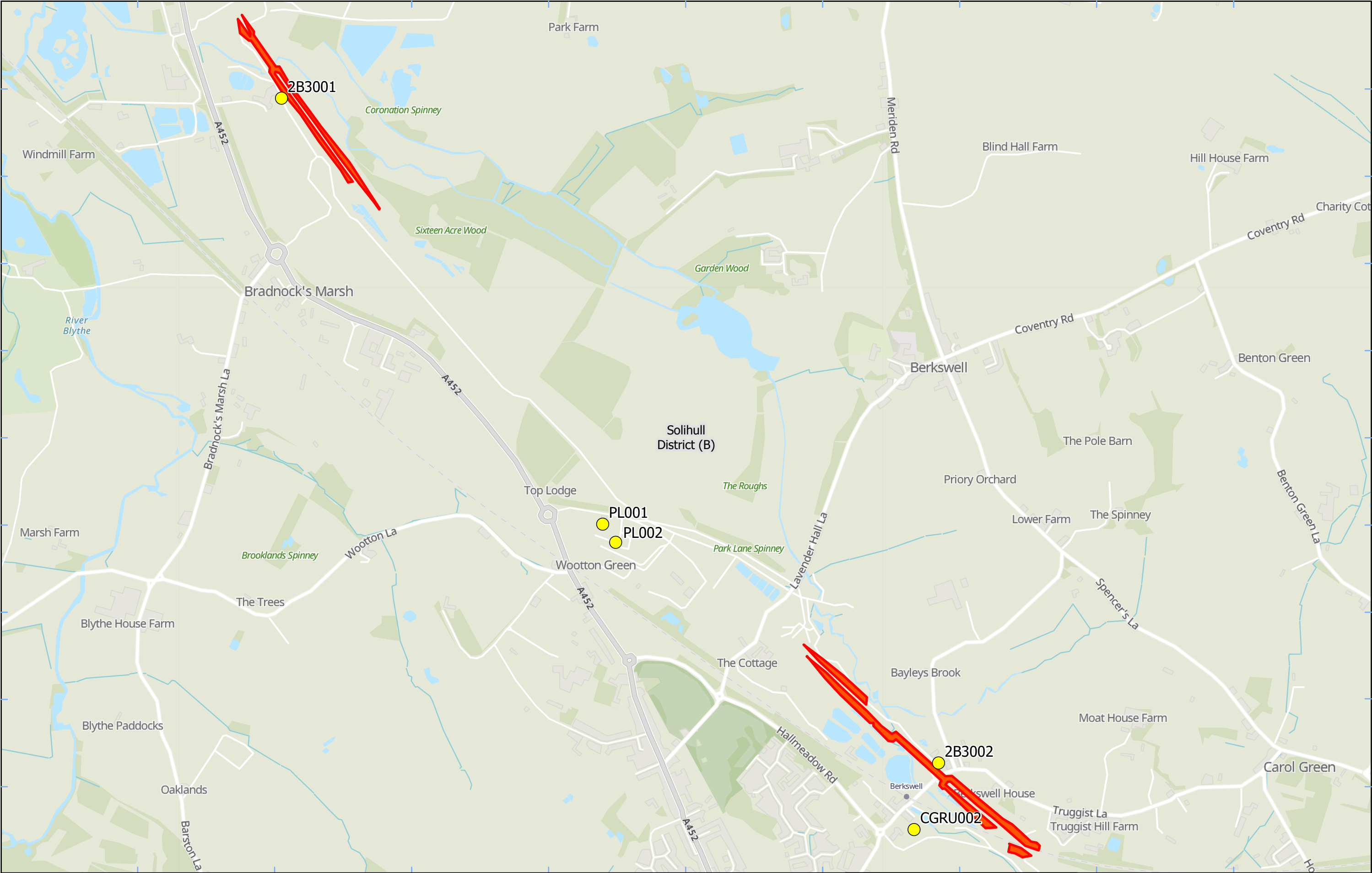
1.1.9 Data capture was below 90% for multiple monitors due to:

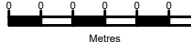
- Monitor BIS001 – A monitor swap out was carried out on 9th September 2025. After this site visit, the technical issues were resolved.
- Monitor DLE001 - A monitor swap out was carried out on 23rd September 2025. A field calibration is scheduled for 10th October 2025.

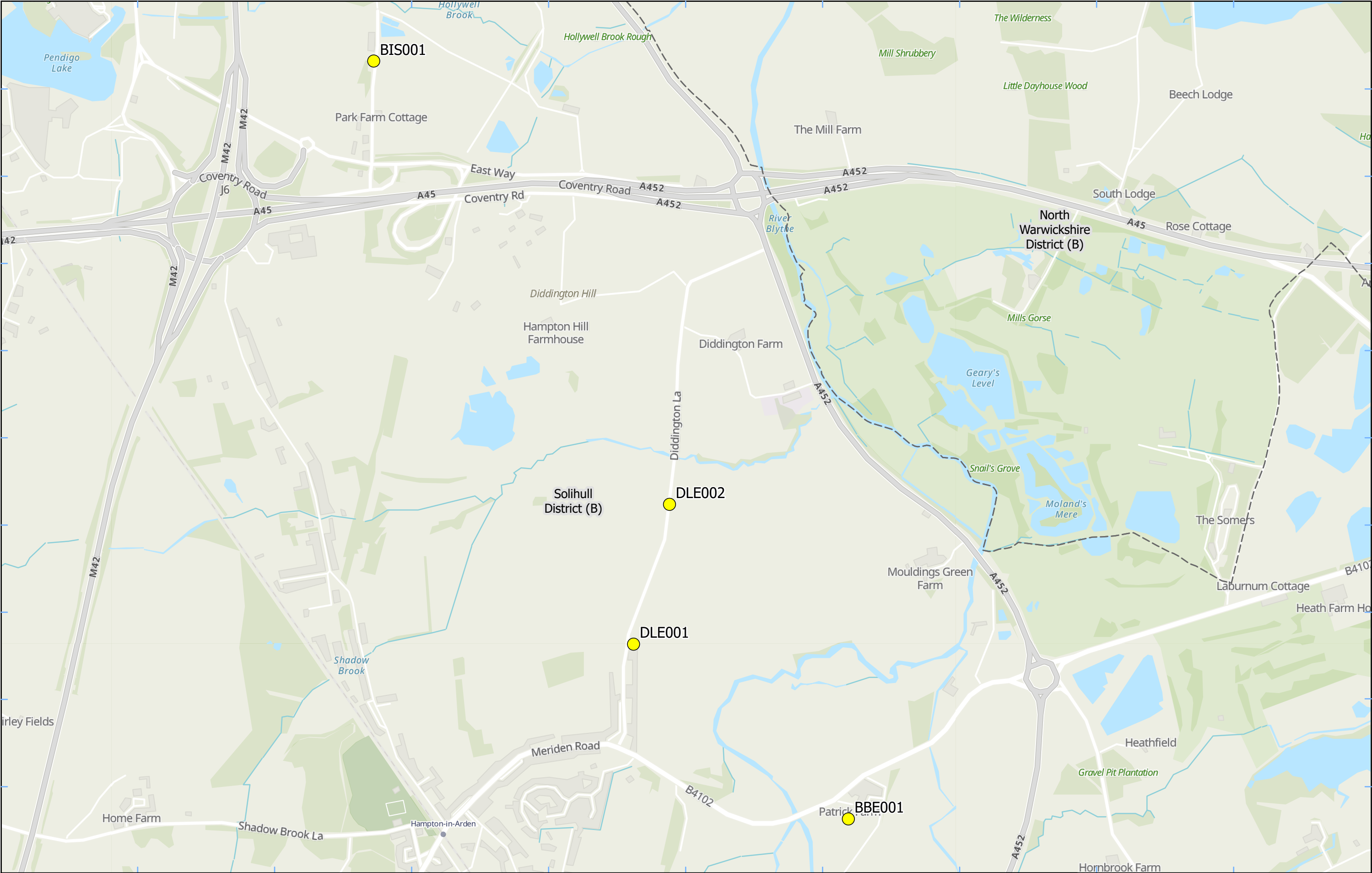
1.1.10 There were no (0) complaints received during the reporting period (September 2025).

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within SMBC



Legend  Dust Monitor  Worksite  District Borough Unitary Boundaries Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025 Contains data from OS Zoomstack	Map Number Map Name Worksite and Monitoring Locations In SMBC (Sheet 1) Solihull Metropolitan Borough	 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. Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2025. Ordnance Survey Licence Number 100049190. Doc Number:  Scale at A3: 1:12,000  Metres Date: 02/04/25
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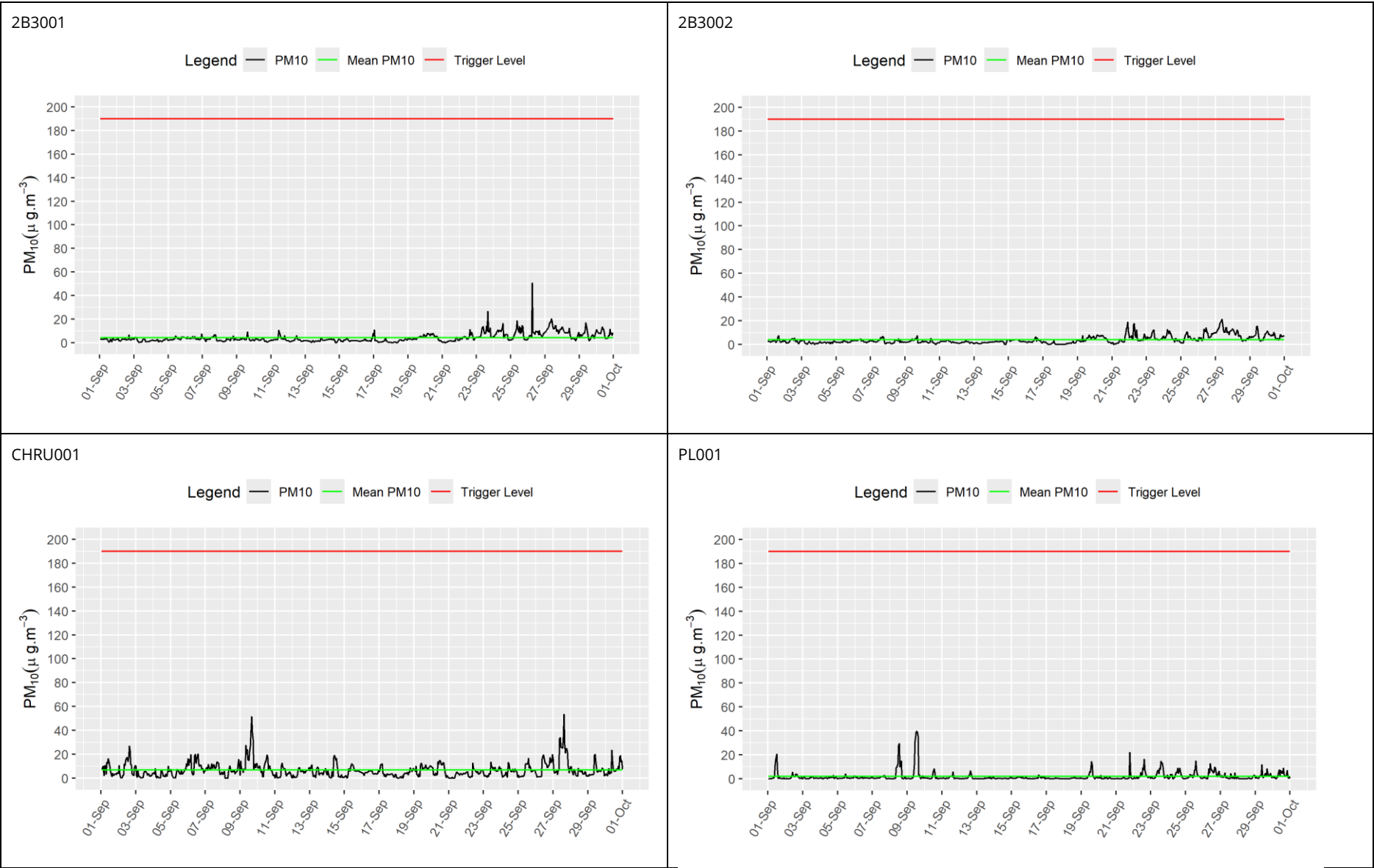
Legend Dust Monitor District Borough Unitary Boundaries Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2023 Contains data from OS Zoomstack	Map Number	hs2 Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2024. Ordnance Survey Licence Number 100049190.
	Map Name	
	Monitoring Locations In SMBC (Sheet 3)	
Solihull Metropolitan Borough		
Doc Number:		
Scale at A3: 1:10,000 Metres Date: 11/03/24		

Appendix B – Dust Monitoring Results

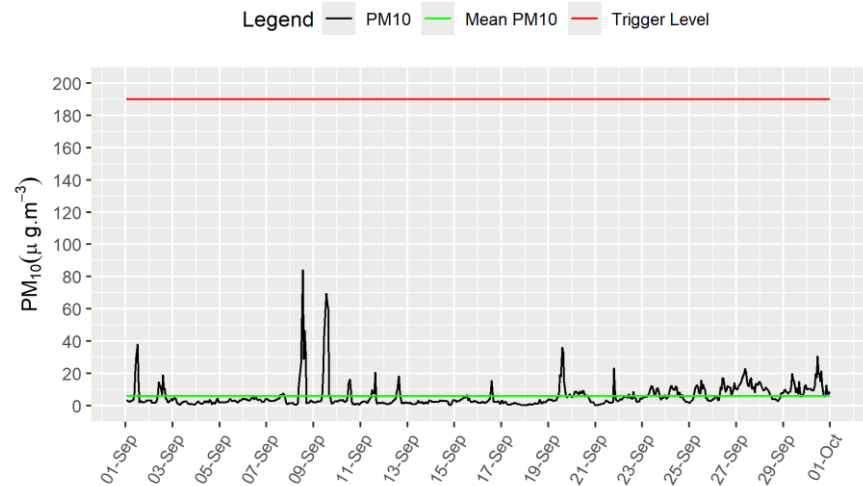
Table 1: Dust Monitoring Locations and Results

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	4.4	0.2	50.7	0	100.0
2B3002	424601, 277729	Sublot 2B3, at Cherry Tree Cottage	M	Yes	No	4.1	0.1	21.3	0	100.0
CHRU001	419300, 286793	Bluebell Drive, Coleshill Heath Road Underbridge	M	Yes	No	6.9	0.1	53.5	0	100.0
PL001	423436, 278557	Park Lane	M	Yes	No	2.0	0.1	39.8	0	100.0
PL002	423481, 278494	Final Home, Park Lane	M	Yes	No	6.1	0.3	84.0	0	100.0
DLE001	421035, 281818	Diddington Lane	M	Yes	No	4.9	0.3	24.6	0	100.0
DLE002	421139, 282222	Hampton Hill Farmhouse	M	Yes	No	1.0	0.1	27.0	0	78.1
BIS001	420284, 283503	Hollywell Brook	M	Yes	No	1.1	0.1	21.7	0	71.1
CGRU002	424454, 277483	Annora House	M	Yes	No	4.3	0.3	22.8	0	100.0

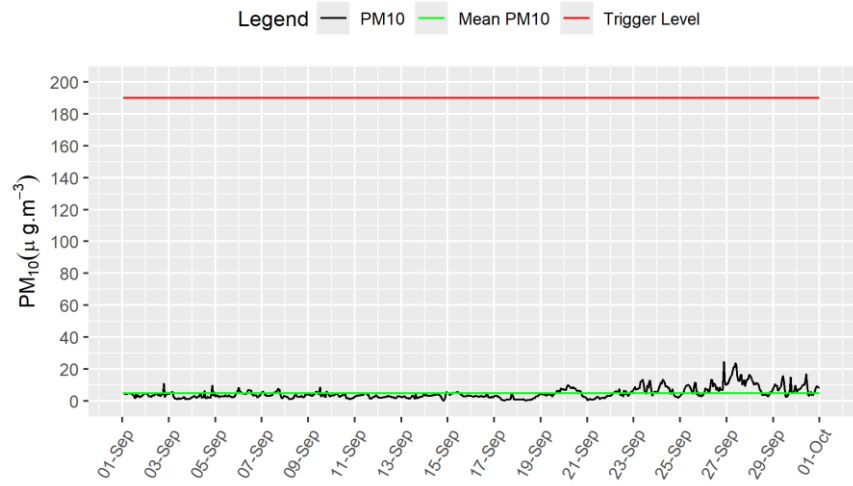
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture Month (%)
BBE001	421656, 281313	Patrick Farmhouse	M	Yes	No	1.0	0.1	16.8	0	99.9



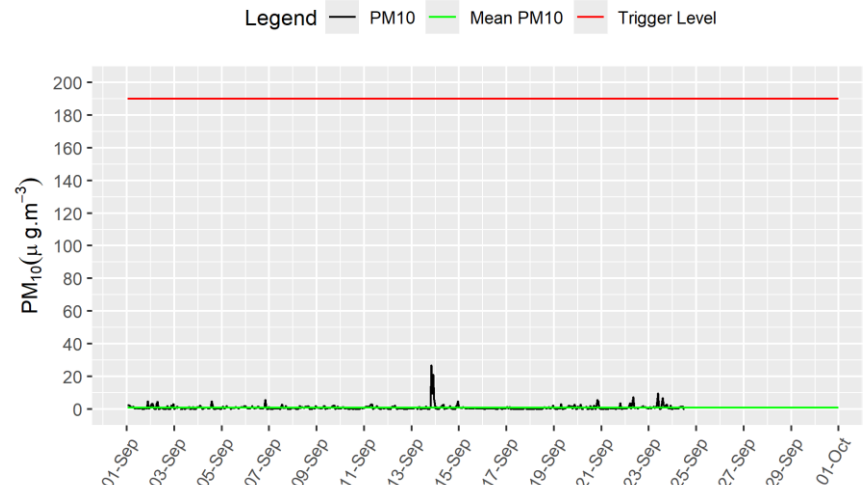
PL002



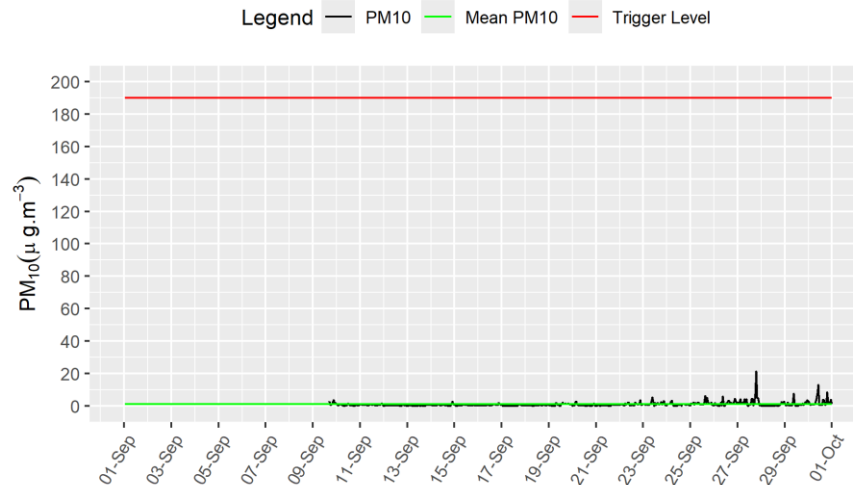
DLE001



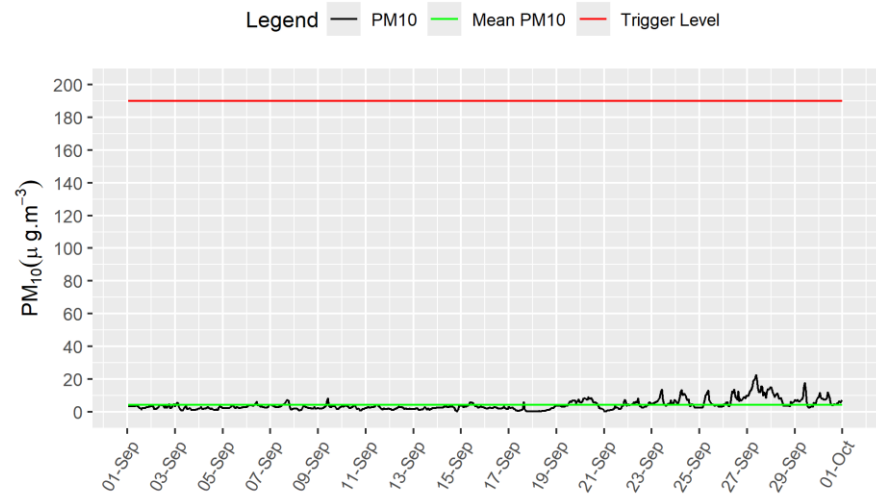
DLE002



BIS001



CGRU002



BBE001

