

Air Quality and Dust Monitoring Monthly Report – March 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 March 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

- Tunnel excavation works.
- Breaking / cropping piles at M186 overbridge.
- Waste Lane diversion works.

Carol Green Rail Underbridge

- Joint venture between Bachy Soletache and Balfour Beatty Ground Engineering (SB3) working for rigid inclusion works.
- Redressing the platforms.
- Moving traffic and plants.

Sublot 2B3

Balsall Common Viaduct

- Installation of bearings and concrete at Balsall Common Viaduct (BCV) Abutment (AB) 0.
- Rebar to Abutment at BCV AB17.
- Concrete to Abutment at BCV AB17.
- Curing for Abutment at BCV AB17.
- Strike shutter / concrete inspection / cover test.

Park Lane

- M215 Overbridge works.

- Material stockpile and reload.
- Lavender Hall Lane overbridge works.
- Parapet installation.

Sublot 5S

Coleshill Heath Road

- Landscape fill from various sources.
- Fill of Dig and Replace with Stabilisation (Stockpile).
- Ongoing stockpile management.

Coleshill Heath Road Underbridge

- Fill of Dig and Replace (D&R) with Stabilisation (Stockpile).
- 2 Excavation Phase 1 to PWE South D&R.
- Demobilisation of SB3.
- Pile cropping.
- 2nd pour rebar installation.
- 2nd pour formwork installation.
- Rebar fixing.
- Excavating concrete pads for 2nd pour props.
- SB3 mobilisation.

- 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 (March 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Monitor BIS001 – A fault investigation site visit was done on 8th April 2025. A field calibration is scheduled for 17th April 2025.

- Monitor PL002 – A fault investigation site visit was done on 4th March 2025, a monitor swap out was done on 13th March 2025, and a field calibration was done on 3rd April 2025. After these site visits, the monitor issues were resolved.

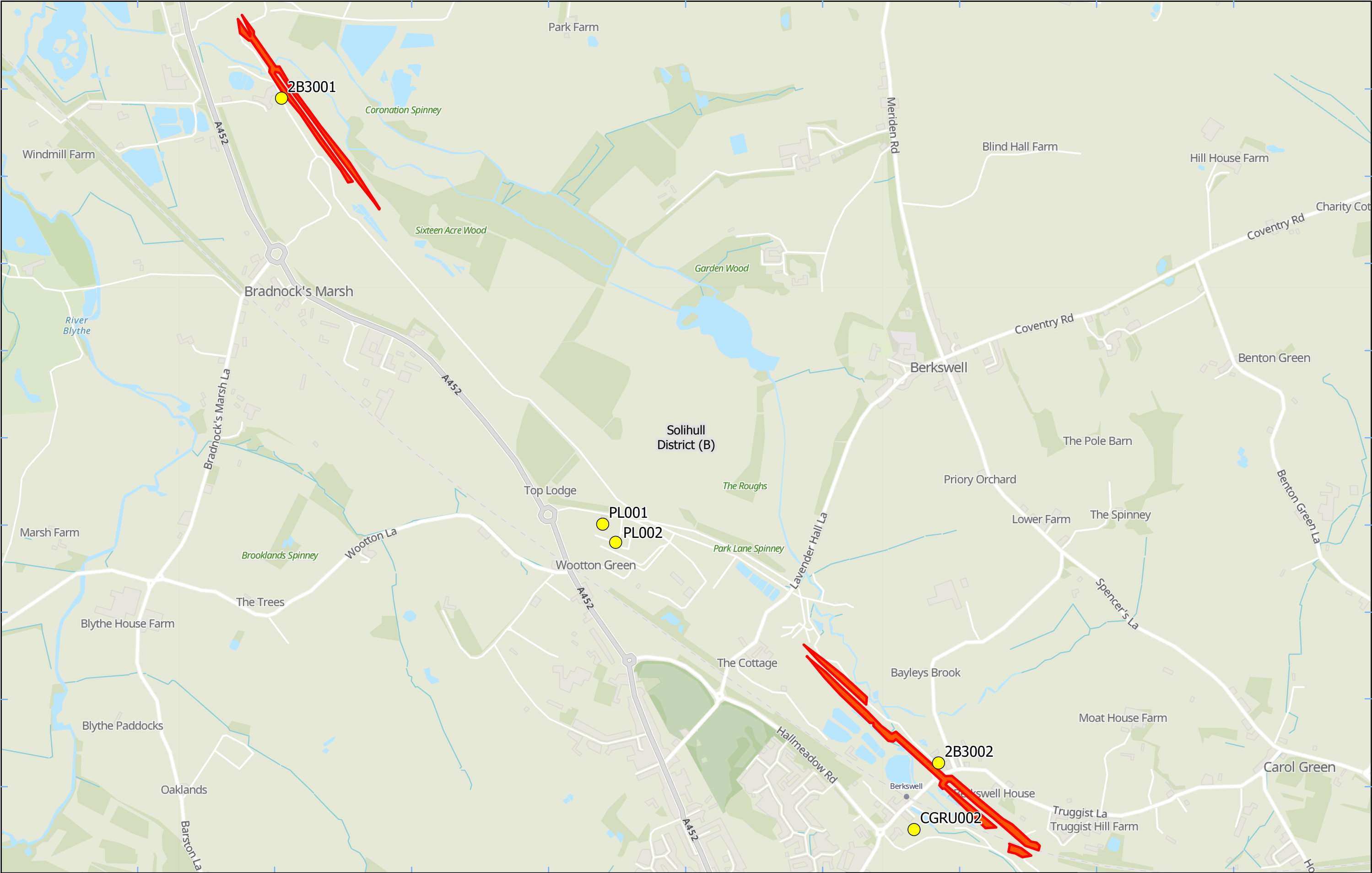
1.1.10 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during March 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46206-C	N/A	Dust on vehicle.	Still under investigation with contractor at the time of running report.

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within SMBC



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

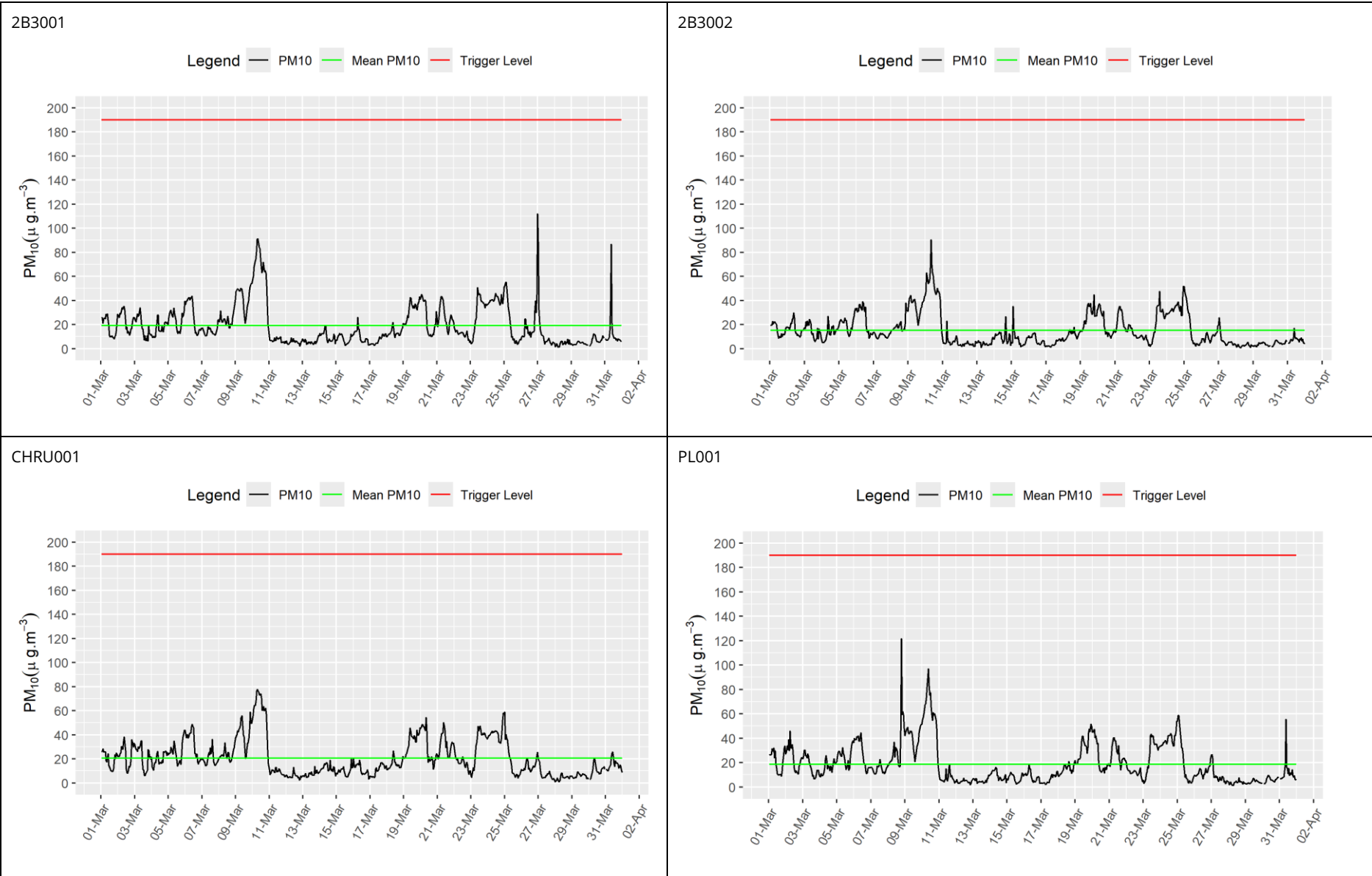
Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

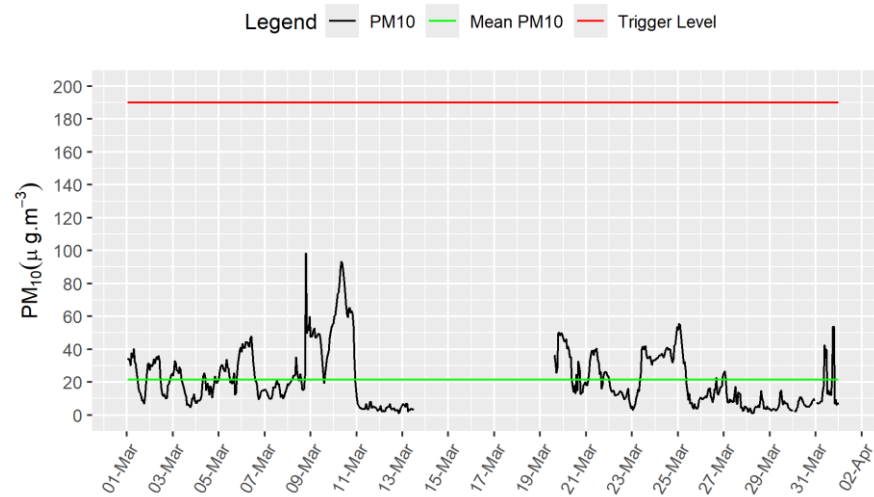
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number 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	19.2	1.1	112.0	0	99.7
2B3002	424601, 277729	Sublot 2B3, at Cherry Tree Cottage	M	Yes	No	15.1	0.7	90.3	0	99.7
CHRU001	419300, 286793	Bluebell Drive, Coleshill Heath Road Underbridge	L	Yes	No	20.5	1.0	77.7	0	99.7
PL001	423436, 278557	Park Lane	M	Yes	No	18.7	1.2	121.7	0	99.7
PL002	423481, 278494	Final Home, Park Lane	M	Yes	No	21.3	1.0	98.3	0	80.2
DLE001	421035, 281818	Diddington Lane	M	Yes	No	19.7	1.3	92.6	0	99.7
DLE002	421139, 282222	Hampton Hill Farmhouse	M	Yes	No	17.4	1.0	77.6	0	99.7
BIS001	420284, 283503	Hollywell Brook	M	Yes	No	23.1	1.7	91.7	0	41.5
CGRU002	424516, 277498	Annora House	M	Yes	Yes	17.5	1.0	94.1	0	99.7

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	17.0	0.5	93.0	0	99.7

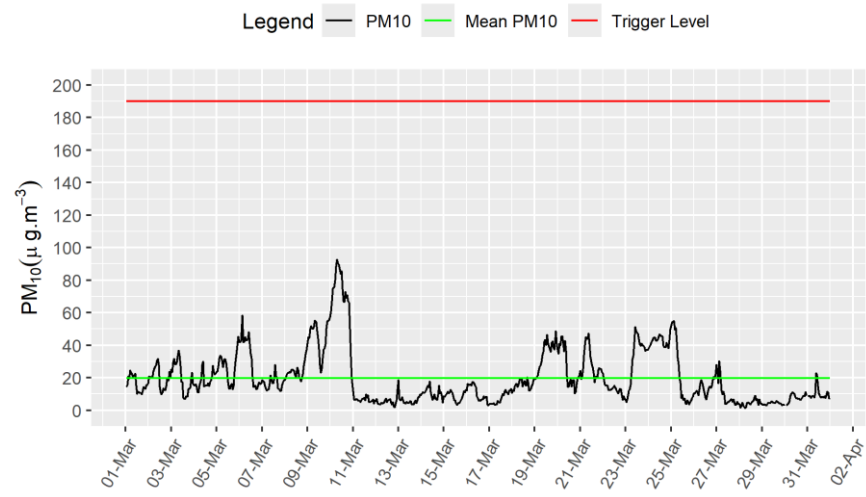
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



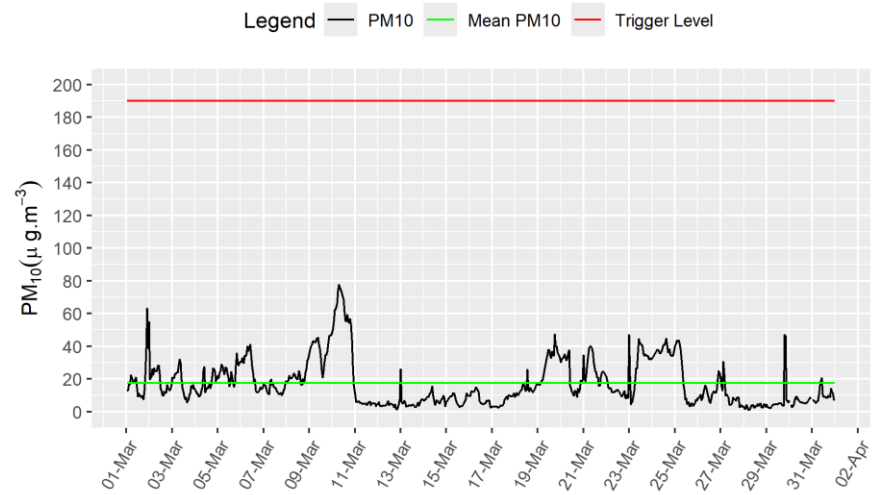
PL002



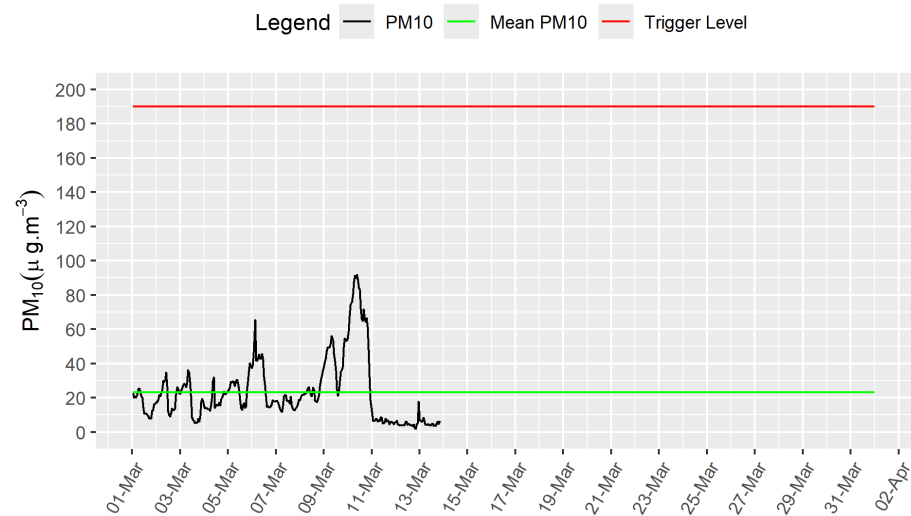
DLE001



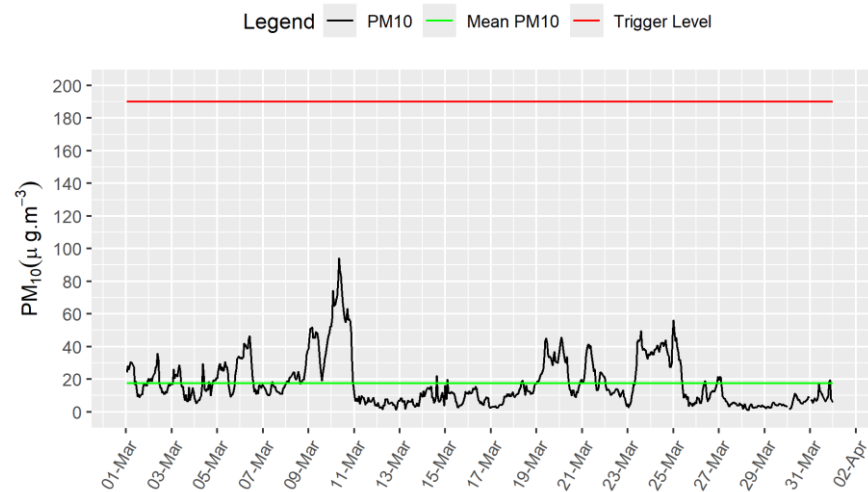
DLE002



BIS001



CGRU002



BBE001

