

## **Air Quality and Dust Monitoring Monthly Report – June 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 June 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](http://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

- Filling in concrete pour for Burton Green slab.
- Fixing and installation of shutters.
- Dig and replace work for substation.
- Excavation and reshaping the batters.
- Waste Lane Road realignment works.

### Carol Green Rail Underbridge

- Moving plant and vehicles.

## **Sublot 2B3**

### Balsall Common Viaduct

- Rebar fixing and installation on pier 15.
- Moving traffic.

### Park Lane

- Park Lane Cutting Bulk excavation.
- Park Lane Cutting dig and replace cut.
- Park Lane Cutting dig and replace fill.
- Remedial works to dig and replace area 3.
- Material stockpile and reload.

- Moving traffic.
- Dig and replace fill east of culvert.
- Lavender Hall Lane Realignment highway embankment fill.
- Rigid inclusion temporary working platform construction.
- Moving plants and vehicles.

#### A452 Compound

- A452 realignment works.

### **Sublot 5S**

#### Coleshill Heath Road

- Landscape fill.
- Technical backfill and joint sealing of culvert.
- Wingwall delivery and installation.
- Material crushing and screening.
- Ongoing stockpile management and general site works (i.e., Material deliveries and site maintenance).

#### Coleshill Heath Road Underbridge

- Technical backfill of pile cap.
- Pile cap excavations.
- Embankment extension.
- Sheet pile cutting.
- Steel fixing Abutment Pile cap.
- Ongoing stockpile management and general site works (i.e., Material deliveries and site 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 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 PM<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, 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.

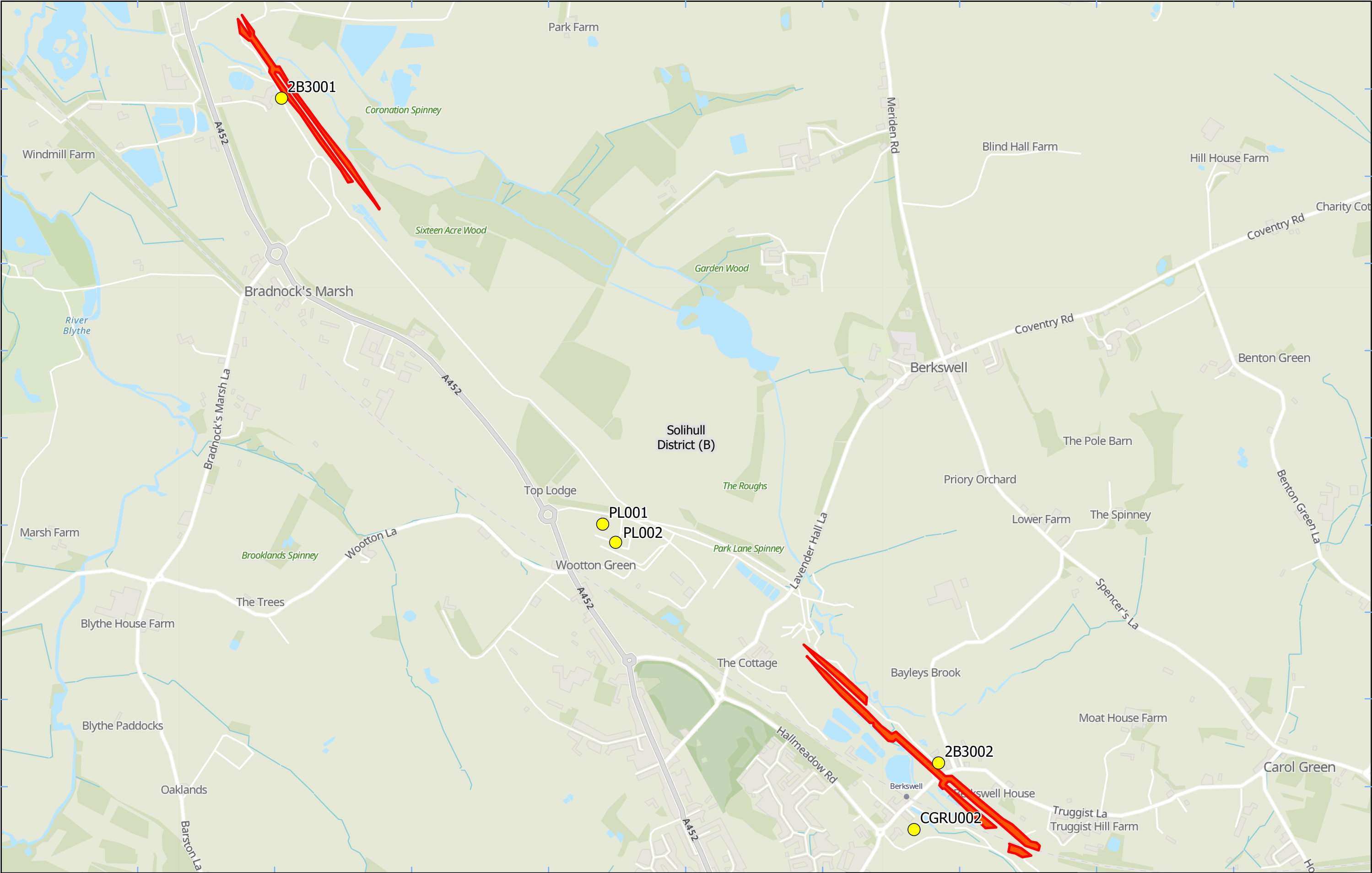
- 1.1.8 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 3.
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Monitor BIS001 – A monitor swap out was done on 12th June 2025, and a field calibration was done on 10th July 2025. After these site visits, the technical issues were resolved.
  - Monitor PL002 – A monitor swap out was done on 1st July 2025. A field calibration is scheduled for 17th July 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 June 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46511-C	N/A	Increased amount of dust in the area.	All mitigation measures in place to reduce dust on site, all monitors checked no exceedances recorded. Sahara dust events have affected most of the UK leaving a reddish residue. Resident has been informed.

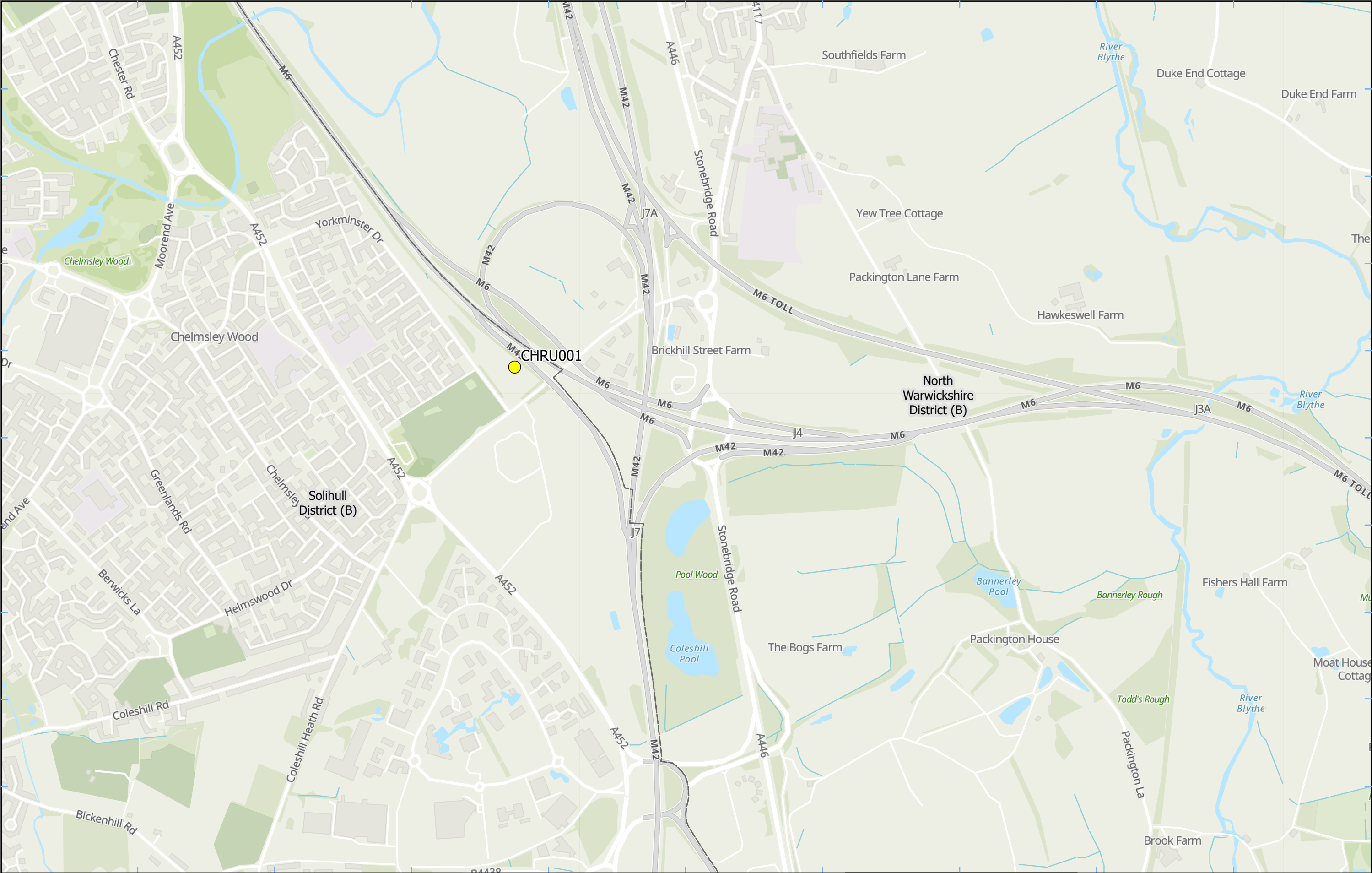
# Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within SMBC





<b>Legend</b> Dust Monitor Worksite District Borough Unitary Boundaries	Map Number	 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.  Scale at A3: 1:12,000  Metres Date: 02/04/25
	Map Name <b>Worksite and Monitoring Locations In SMBC (Sheet 1)</b>	
	<b>Solihull Metropolitan Borough</b>	
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**Legend**

 Dust Monitor

 District Borough Unitary Boundaries

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Map Number
Map Name
<b>Monitoring Locations In SMBC (Sheet 2)</b>
<b>Solihull Metropolitan Borough</b>

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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

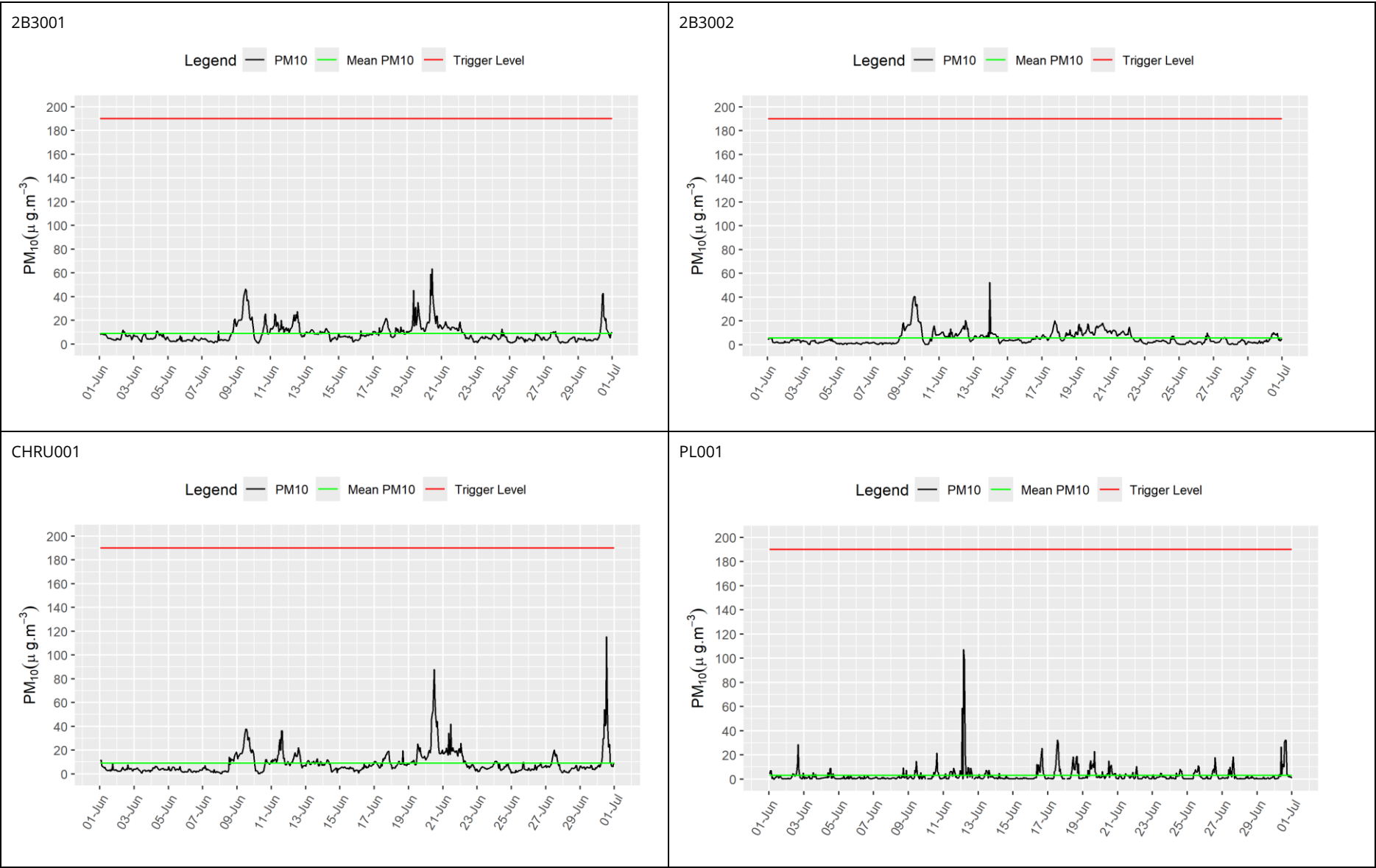
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1-hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture Month (%)
2B3001	422322, 280034	Sublot 2B3, at Marsh Farm	M	Yes	No	8.9	0.7	63.5	0	100.0
2B3002	424601, 277729	Sublot 2B3, at Cherry Tree Cottage	M	Yes	No	5.5	0.1	52.5	0	99.7
CHRU001	419300, 286793	Bluebell Drive, Coleshill Heath Road Underbridge	M	Yes	No	8.9	0.1	115.5	0	100.0
PL001	423436, 278557	Park Lane	M	Yes	No	3.0	0.1	107.1	0	94.3
PL002	423481, 278494	Final Home, Park Lane	M	Yes	No	9.8	0.2	83.6	0	64.2
DLE001	421035, 281818	Diddington Lane	M	Yes	No	7.5	0.1	51.5	0	98.9
DLE002	421139, 282222	Hampton Hill Farmhouse	M	Yes	No	16.3	0.1	2432.3	6	98.8
BIS001	420284, 283503	Hollywell Brook	M	Yes	No	8.0	0.4	43.1	0	61.7
CGRU002	424516, 277498	Annora House	M	Yes	No	7.0	0.1	46.8	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 <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1-hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture Month (%)
BBE001	421656, 281313	Patrick Farmhouse	M	Yes	No	1.1	0.1	9.1	0	92.6

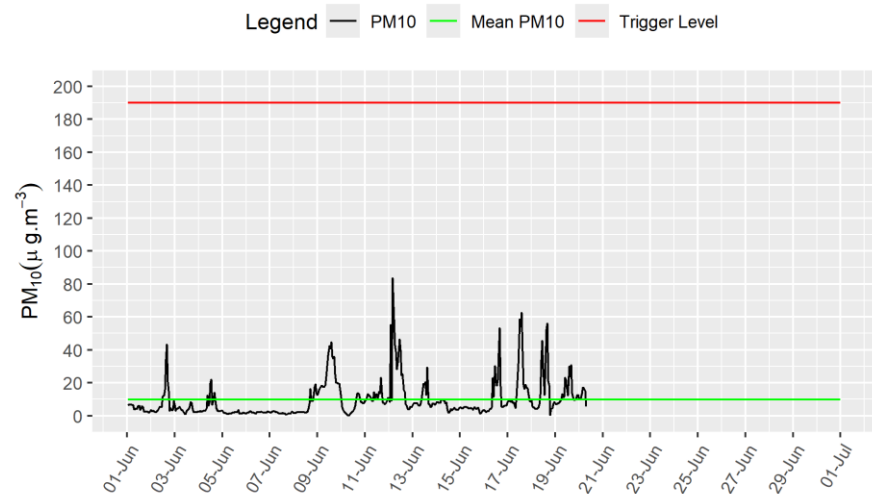
Table 3: Summary of exceedances during period (June 2025)

Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
DLE002	01/06/2025 14:01 – 15:00; 2432.3 µg/m <sup>3</sup> 15:01 – 16:00; 1532.6 µg/m <sup>3</sup> 16:01 – 17:00; 2075.7 µg/m <sup>3</sup> 17:01 – 18:00; 724.9 µg/m <sup>3</sup> 18:01 – 19:00; 194.1 µg/m <sup>3</sup> 19:01 – 20:00; 251.4 µg/m <sup>3</sup>	These exceedances were recorded at times that are outside of current BBV working hours, so these exceedances were not thought to be associated with current HS2 construction works.	N/A

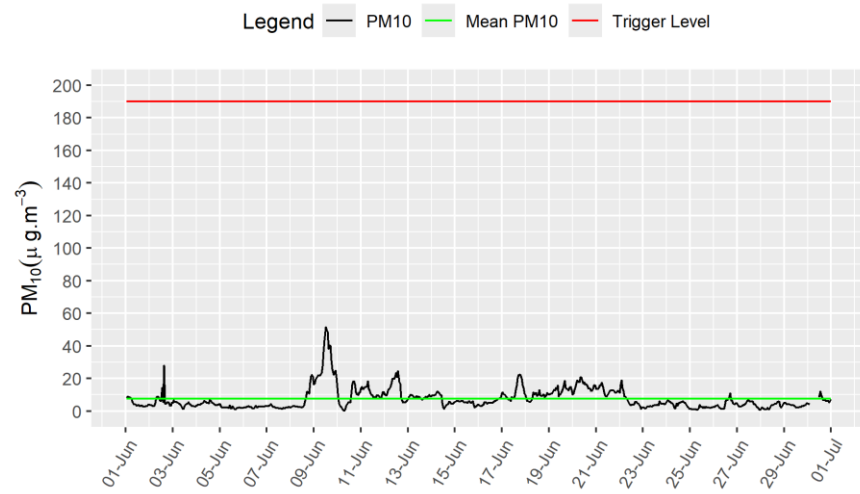
Figure 4: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors



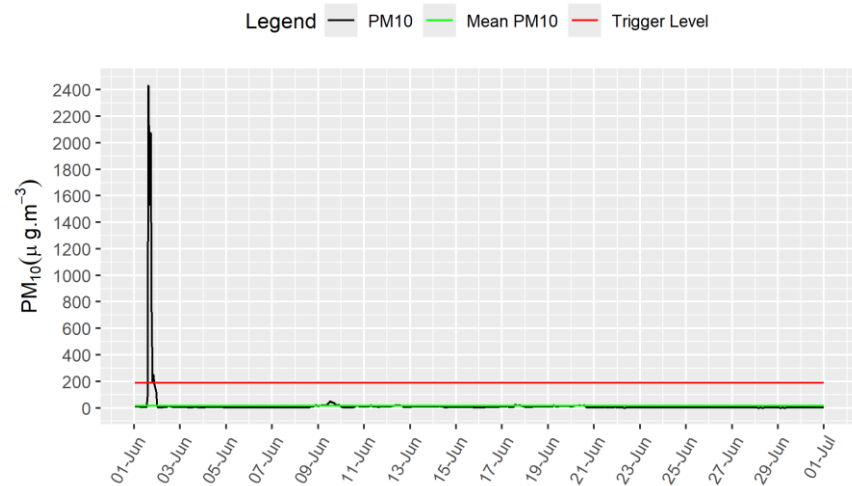
PL002



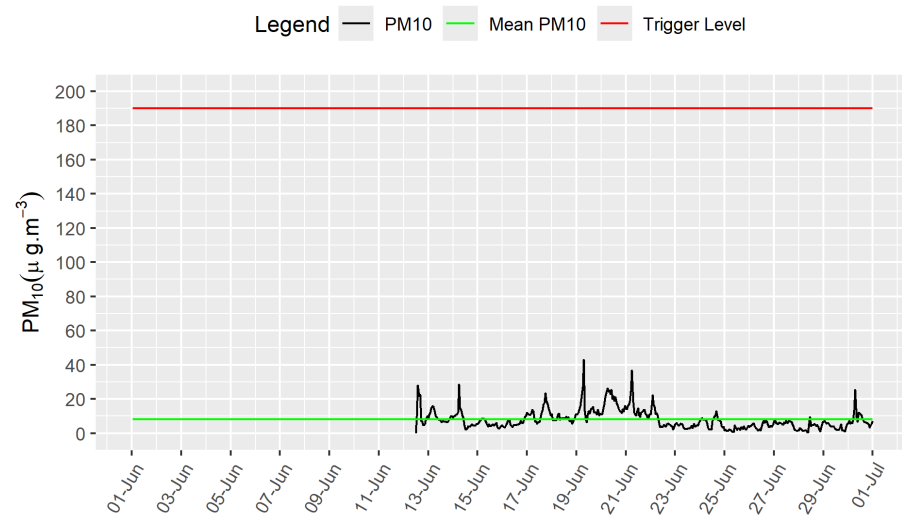
DLE001



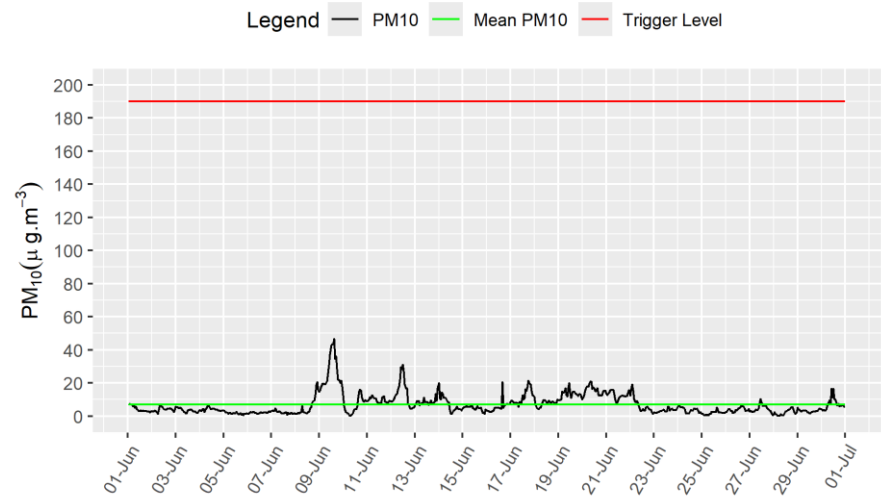
DLE002



BIS001



CGRU002



BBE001

