

Air Quality and Dust Monitoring Monthly Report – July 2021

Warwick District Council



Department for Transport

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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 dust monitoring undertaken in Warwick District Council (WDC) during July 2021.
- 1.1.2 Figure 1 and figure 2 in Appendix A indicate the current worksites together with the dust monitoring locations at Brookview Farm, Millburn Grange (Figure 1), and Cromwell Lane and Hodgetts Lane (Figure 2) for July 2021.
- 1.1.3 This summary should be read in conjunction with the 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 phase of works (Sublot 2B1 and Sublot 2b2) within WDC, commenced in November 2020 and is expected to be completed by 2026. The Sublot 2B1 works at Crackley, as presented Appendix A, Figure 1, include soil stripping, stockpiling and temporary drainage construction. The subplot 2B2 works at Burton Green, as presented Appendix A, Figure 1, include Burton Green Tunnel and related constructions assets, such as construction of the haul road and compound at the South Portal; earthworks in the vicinity of Hodgetts Lane; and removal of tree roots and vegetation from North Cromwell Lane to Waste Lane.
- 1.1.5 There are three (3) dust monitors installed for the current phase of works within WDC. Two (2) dust monitors are installed at the nearest properties to the Burton Green Tunnel construction asset on Cromwell Lane and Hodgetts Lane and one (1) at Brookview Farm, Millburn Grange, which is the nearest property to the A429 Kenilworth Road Overbridge worksite. The current worksites (Sublot 2B1 and 2B2) returned a medium dust risk rating for human health effects and ecological effects. The dust monitor at Hodgetts Lane has been installed at a location that is representative of both the human health receptors on Hodgetts Lane and the ecological receptor at Little Pools Wood.
- 1.1.6 The dust monitoring location and results for July 2021 are presented in Appendix B, Table 2, together with a line chart of monthly data from the dust monitor presented in Figures 3 to 5.
- 1.1.7 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 mitigations.

- 1.1.8 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.
- 1.1.9 There were no (0) dust trigger alerts recorded during the reporting period (July 2021).
- 1.1.10 Table 1 provides a summary of the complaint information related 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 July 2021

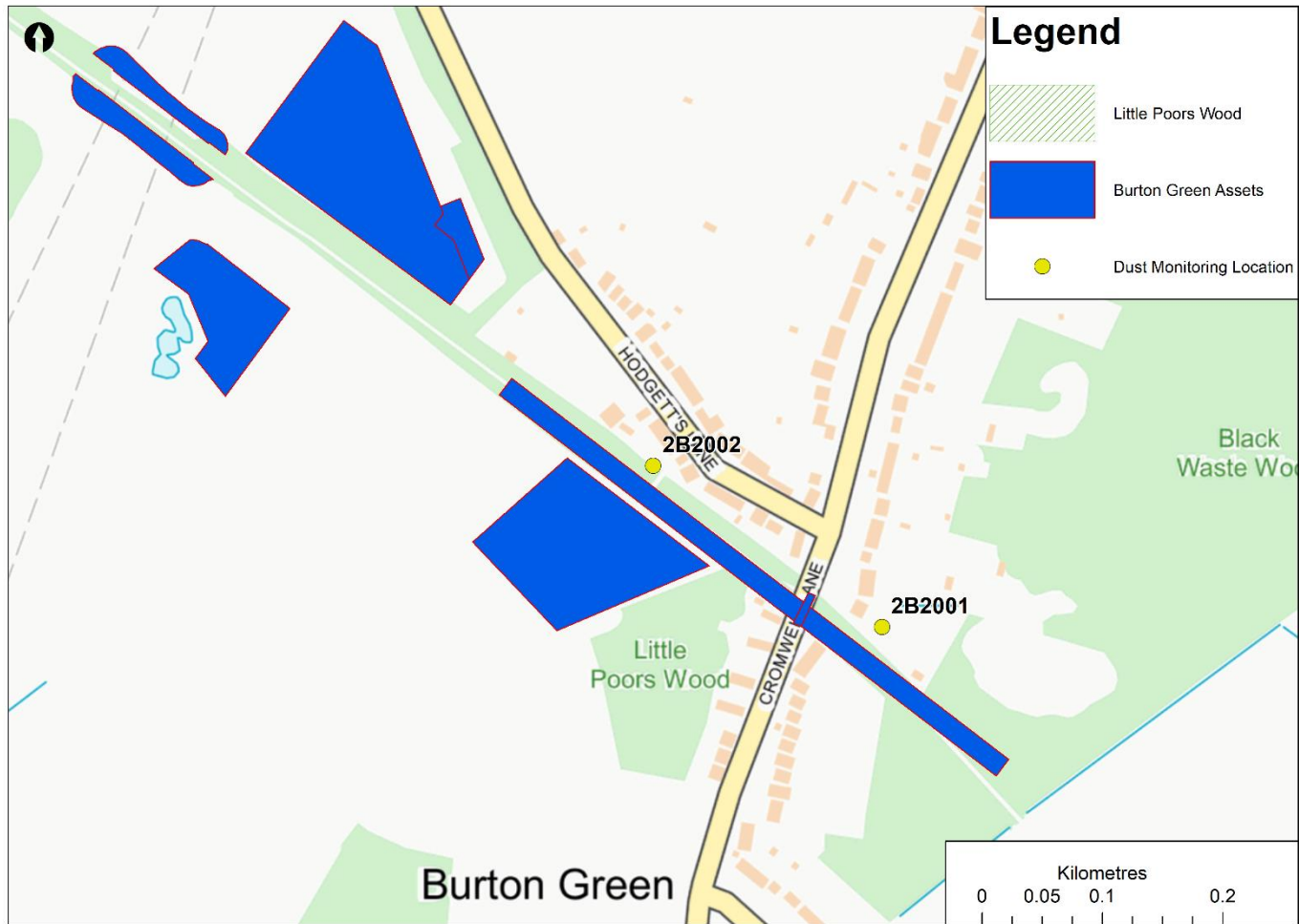
Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-21-42345-C HS2-21-42350-C HS2-21-42354-C HS2-21-42362-C	n/a	Dust pollution from works covering property/vehicle.	This complaint is being investigated. Dust mitigation, in line with the Code of Construction Practise is being implemented across all works.

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations within Warwick District Council during July 2021



Figure 2: Worksites and Monitoring locations within Warwick District Council during July 2021



Appendix B – Dust Monitoring Results

Table 2: Dust monitoring locations and July 2021 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 (%)
2B1001	430183, 273698	Sublot 2B1, at nearest sensitive receptor, Brookview Farm, Millburn Grange	M	Yes	No	8.1	1.1	36.9	0	99.9
2B001	426960, 275882	Sublot 2B2, at nearest sensitive receptor on Cromwell Lane	M	Yes	No	14.4	1.9	102.0	0	100.0
2B002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	1.6	0.0	30.9	0	99.5

Figure 2: Construction dust 1-hour mean mean indicative PM₁₀ concentration for dust monitor 2B1001

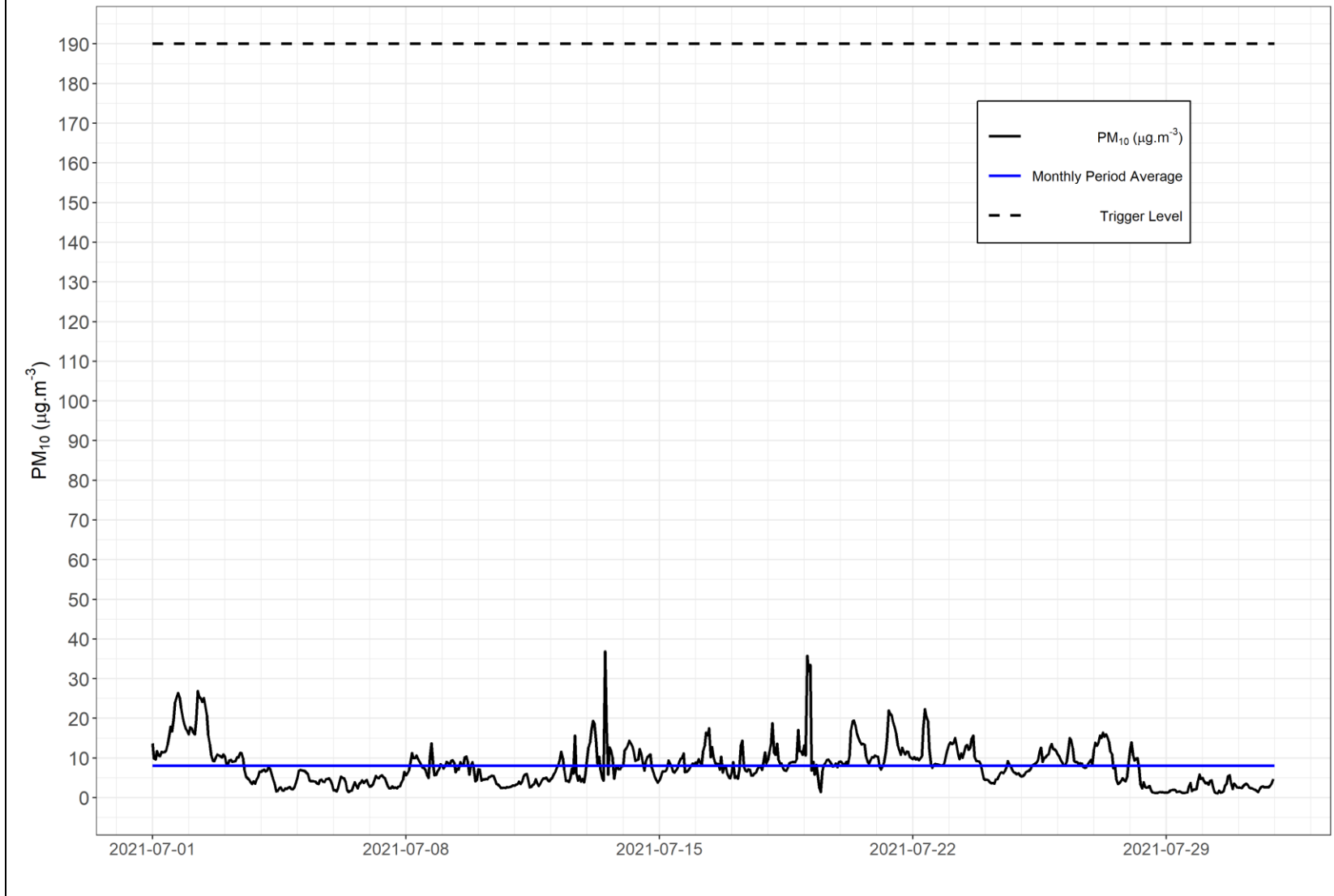


Figure 3: Construction dust 1-hour mean mean indicative PM₁₀ concentration for dust monitor 2B2001

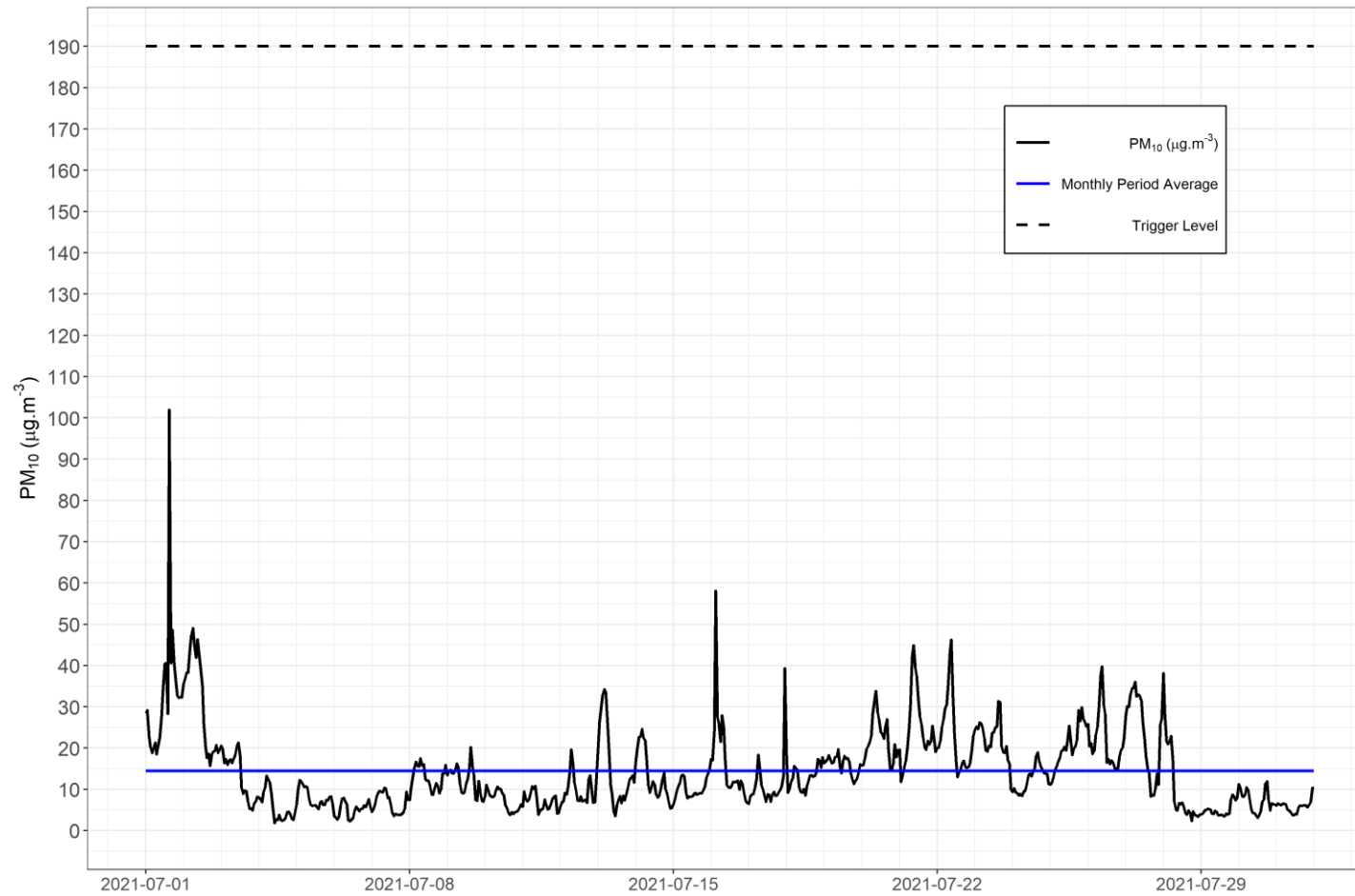


Figure 3: Construction dust 1-hour mean mean indicative PM₁₀ concentration for dust monitor 2B2002

