

## Air Quality and Dust Monitoring Monthly Report – April 2021

Warwick District Council



## Department for Transport

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High Speed Two (HS2) Limited,  
Two Snowhill  
Snow Hill Queensway  
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: [HS2enquiries@hs2.org.uk](mailto:HS2enquiries@hs2.org.uk)

Website: [www.gov.uk/hs2](http://www.gov.uk/hs2)

A report prepared by EWCs and MWCCs on behalf of HS2 Ltd.

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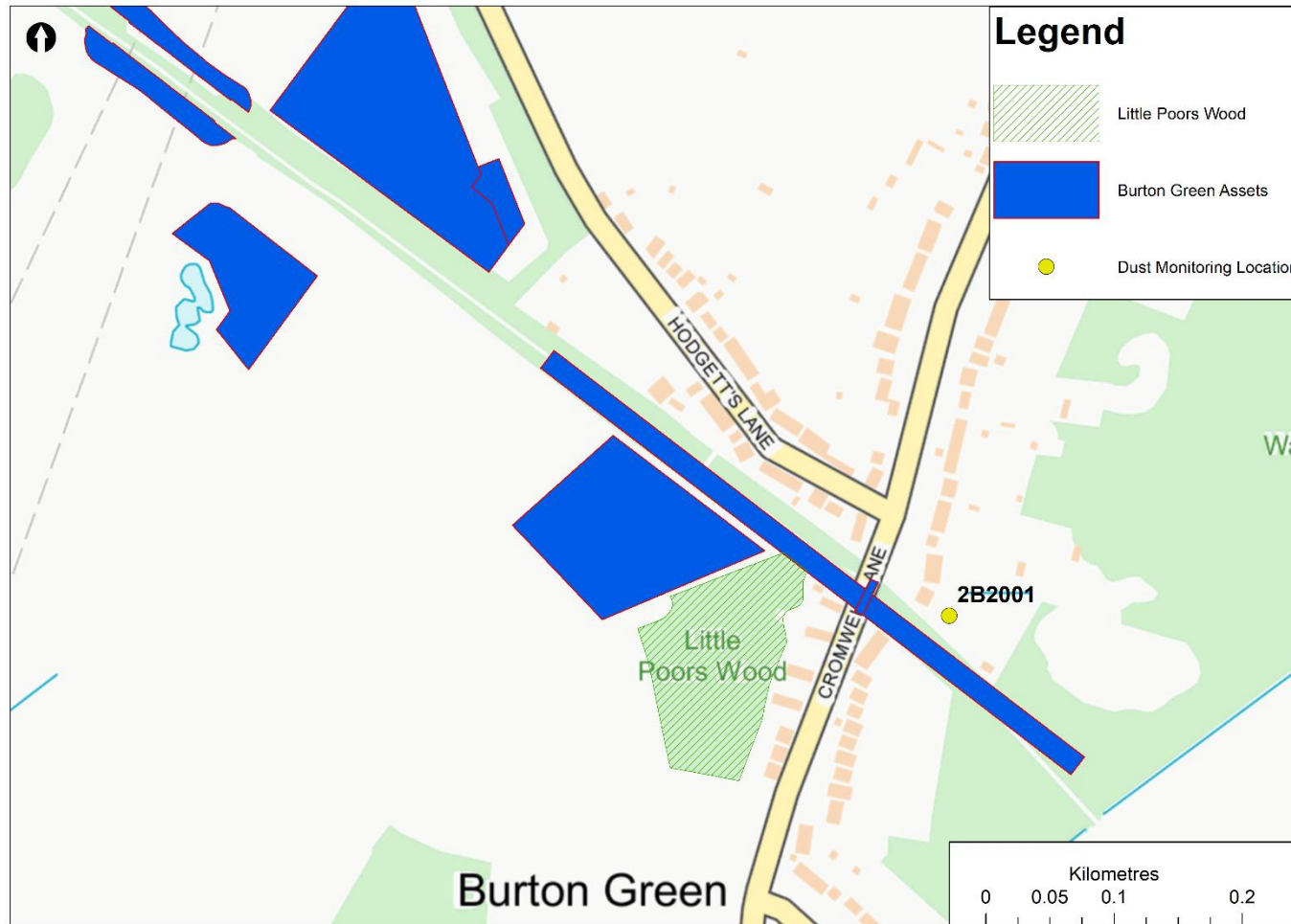
# Monthly Summary

- 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 dust monitoring undertaken in Warwick District Council during April 2021.
- 1.1.2 Figure 1 in Appendix A presents the current worksites together with the dust monitoring location for April 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](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 phase of works (Sublot 2B2 works) at Burton Green, within Warwick District Council, commenced in November 2020 and is expected to be completed by 2026. The Sublot 2B2 works at Burton Green, as presented Appendix A, Figure 1, include the construction of the haul road and compound at the South Portal; and removal of tree roots and vegetation from North Cromwell Lane to Waste Lane.
- 1.1.5 One dust monitor is installed at the nearest property to the Burton Green Tunnel construction asset on Cromwell Lane. This site returned a medium dust risk rating for human health effects and ecological effects relating to Little Pools Wood Ancient Woodland. It should be noted that the main earthworks and haul route construction in the vicinity of Cromwell Lane are not scheduled to start until June-July 2021. Therefore, the dust monitor has been monitoring background PM<sub>10</sub> concentrations during April 2021. An additional dust monitor will be installed on 18/05/21 on Hodgetts Lane 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 Dust monitoring location and results for April 2021 are presented in Appendix B, Table 1, together with a line chart of monthly data from the dust monitor presented in Figure 2. 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.
- 1.1.7 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 There were no (0) dust trigger alerts recorded during the monitoring period (April 2021).
- 1.1.9 Data capture for monitor 2B2001 was below 90% for the month of the April 2021, however, this was due to the monitor being installed on 13/04/2021.
- 1.1.10 There were no (0) complaints, relating to dust or air quality, received during this reporting period (April 2021).

# Appendix A – Worksites and Monitoring Locations

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



## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and April 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 <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 (%)
2B2001	426960, 275882	Sublot 2B2, at nearest sensitive receptor on Cromwell Lane	M	Yes	No	18.9	4	82.1	0	58.4*

The date capture for April 2021 is 58% because the monitor was installed on 13/04/2021.

Figure 2: Construction dust 1-hour mean mean indicative PM<sub>10</sub> concentration for dust monitor 2B2001

