

January 2020

Air Quality and Dust Monitoring Monthly Report – January 2020

Birmingham City Council

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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

Website: www.gov.uk/hs2

A report prepared by LM on behalf of HS₂ Ltd.

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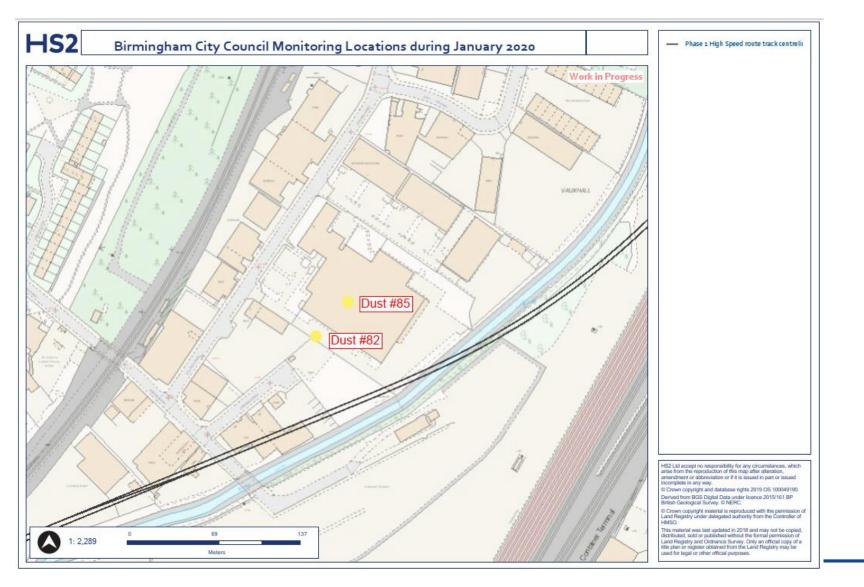
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Monthly Summary

- 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 within Birmingham City Council (BCC) during January 2020.
- 1.1.2 Figure 1 in Appendix A indicates the BCC worksite together with dust monitoring locations for January 2019.
- 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 Two (2) dust monitors (Aeroqual Dust Sentry Monitors) are installed for the current phase of work, of which, one (1) is installed outside the Birmingham Museum Trust (BMT) site whilst the other one (1) is installed inside the building (artefact storage area). These dust monitors continue to collect baseline monitoring data for these locations.
- 1.1.5 Dust monitoring locations and results for January 2020 are presented in Appendix B, Table 1 together with line charts for January from each dust monitor presented in Figures 2 and 3. 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.
- 1.1.6 The trigger level 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.
- 1.1.7 There were no (0) dust trigger alerts recorded during the monitoring period (January 2020).
- 1.1.8 Data capture for dust monitor #775 was below 90% for the month of January 2020 due to a signal failure in the building. As a result, the monitor was offline between the 14th and the 20th of January, and it had to be rebooted.
- 1.1.9 No (0) complaints were received, relating to air quality and dust, during this monitoring period (January 2020).

Appendix A – Worksite and Dust Monitoring Locations

Figure 1: Birmingham City Council Worksites and Monitoring locations during January 2020



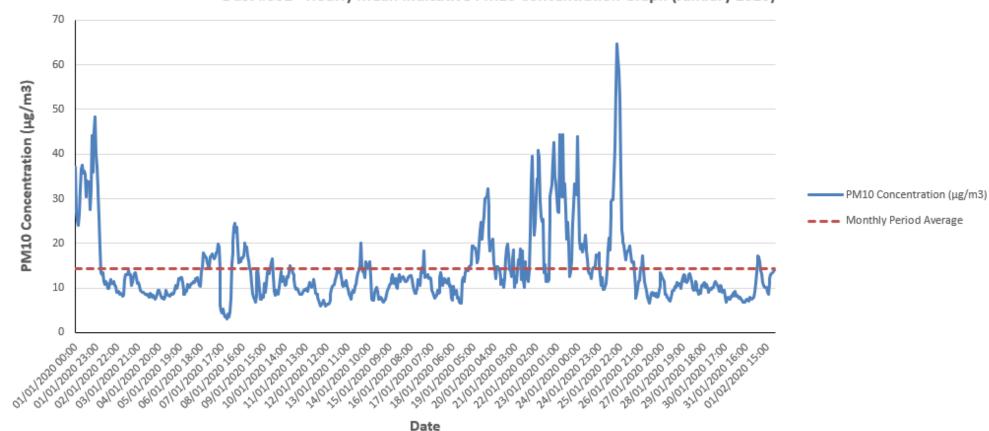
Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and January 2020 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 PM10 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 rate (%)
Dust #552 (old #82)	3890193,127124	Monitor outside the building	High	N/A	N/A	14.3	3.1	64.7	0	100.0
Dust #775 (old #85)	3890165,127105	Monitor secured inside the building	High	N/A	N/A	8.5	6.4	13.4	0	80.6

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Figure 2: Construction dust hourly mean indicative PM₁₀ concentration for Dust #552 (January 2020)

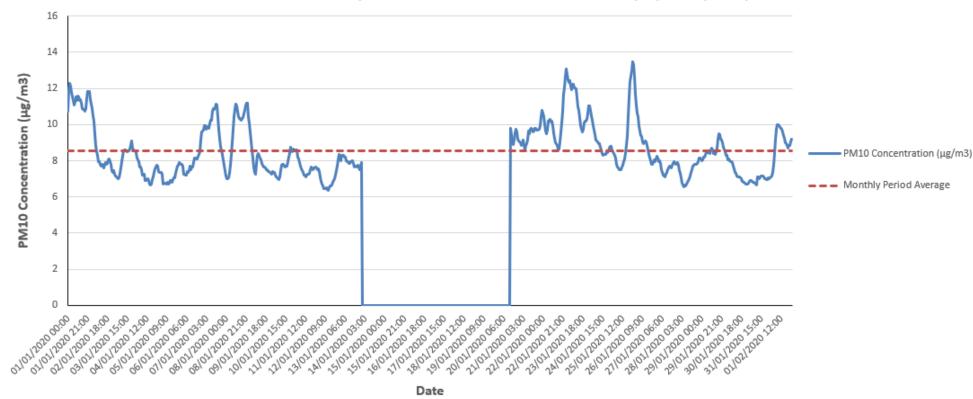


Dust #552 - Hourly Mean Indicative PM10 Concentration Graph (January 2020)

Note¹: Dust s/n 1026 - #82 has been replaced by #552 on 20th of November.

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Figure 3: Construction dust hourly mean indicative PM₁₀ concentration for Dust #775 (January 2020)



Dust #775 - Hourly Mean Indicative PM10 Concentration Graph (January 2020)

Note¹: Dust unit #775 was offline from 14th of January up to 20th of January due to power disconnection on site.