

## **Air Quality and Dust Monitoring Monthly Report – November 2019**

**Birmingham City 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 LM on behalf of HS2 Ltd.

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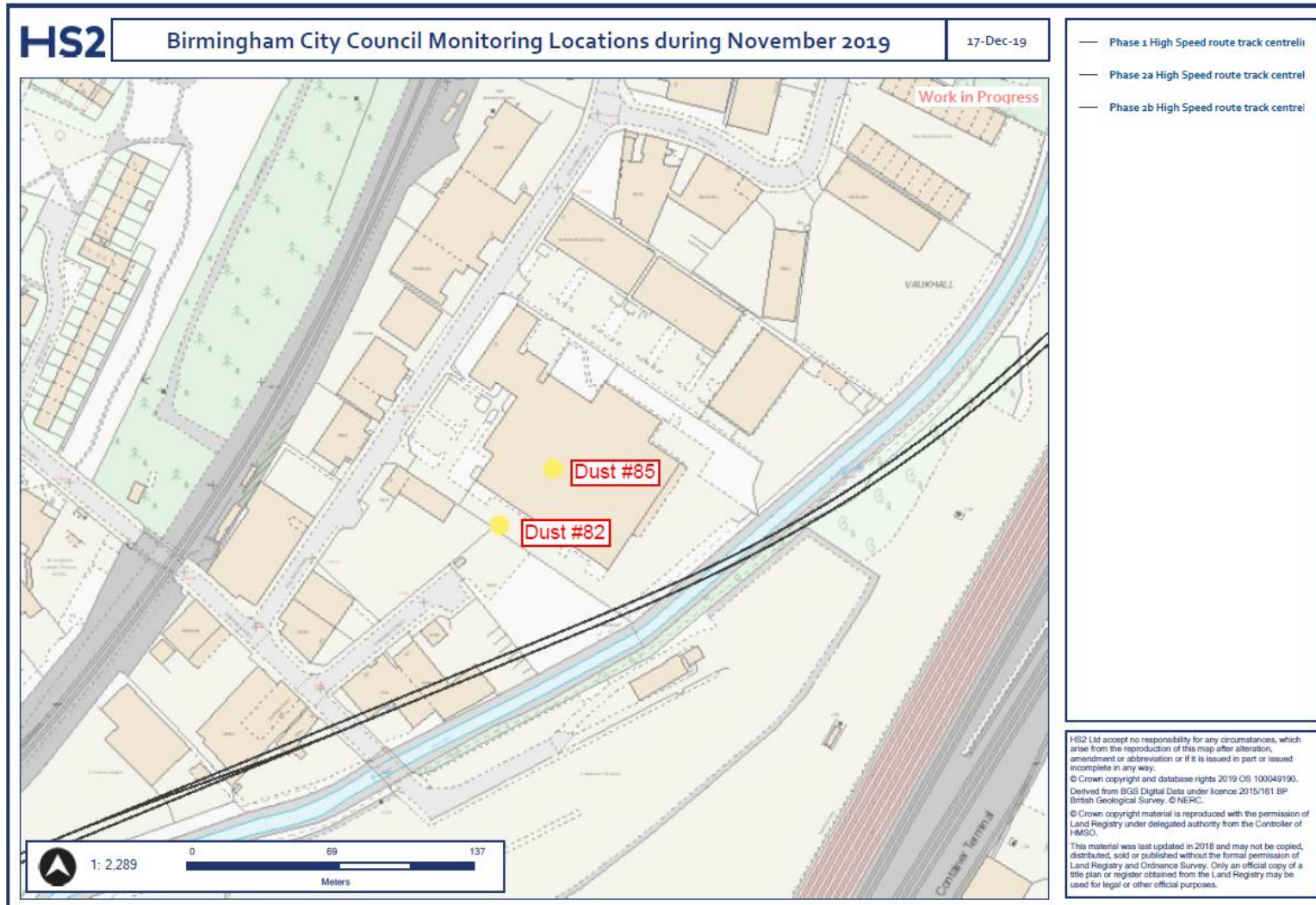
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# Monthly Summary

- 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 November 2019.
- 1.1.2 Figure 1 in Appendix A indicates the BCC worksite together with dust monitoring locations for November 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](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 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 November 2019 are presented in Appendix B, Table 1 together with line charts for November from each dust monitor. 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  $190 \mu\text{g}/\text{m}^3$ , 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 (November 2019).
- 1.1.8 Data capture for dust monitors 552 (former 82) and 775 (former 85) were below 90% for the month of November 2019. This was as a result of power disruptions which have now been rectified.
- 1.1.9 No (0) complaints were received relating to air quality and dust during this monitoring period (November 2019).

# Appendix A – Worksite and Dust Monitoring Locations

Figure 1: Birmingham City Council Worksites and Monitoring locations during November 2019



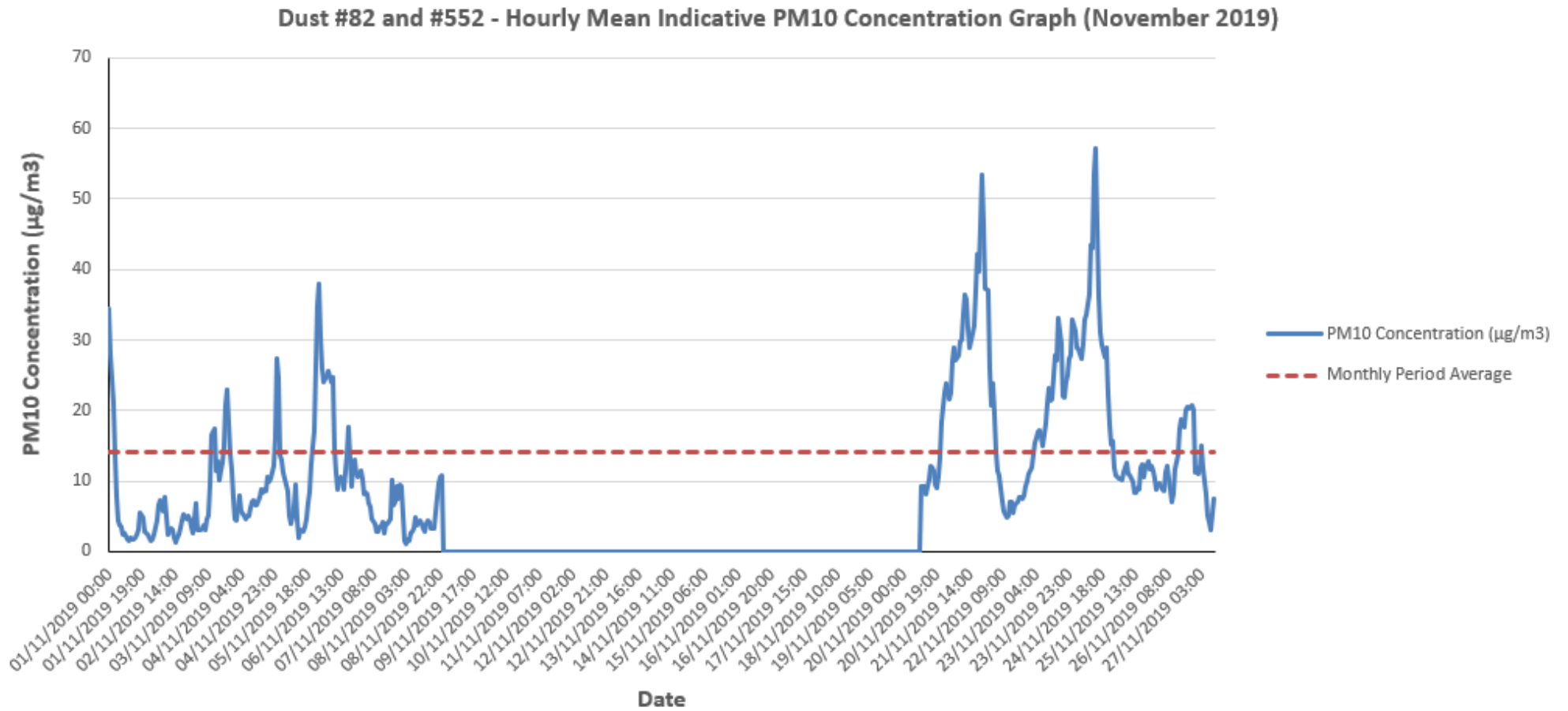
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## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and November 2019 Results

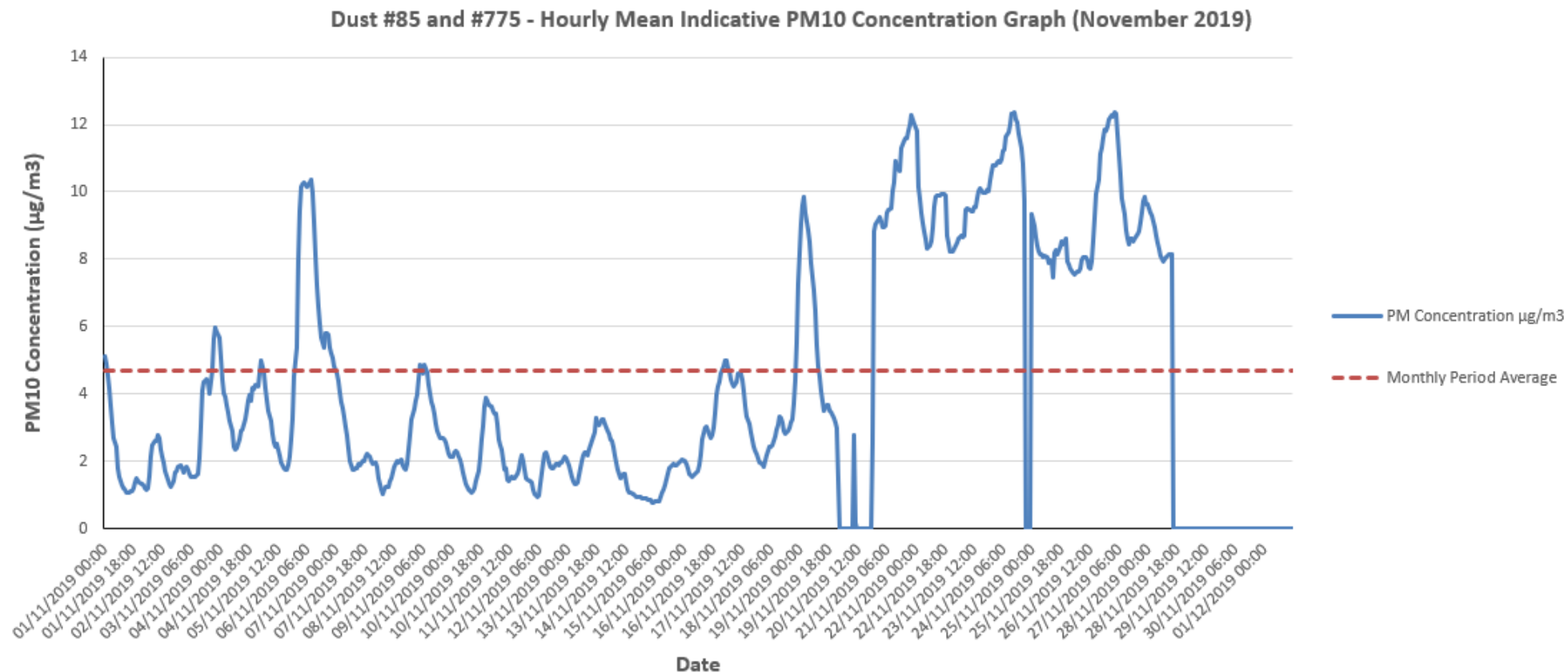
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 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 rate (%)
Dust #552 (old #82)	3890193,127124	Monitor outside the building	High	N/A	N/A	14.1	1.1	57.2	0	70
Dust #775 (old #85)	3890165,127105	Monitor secured inside the building	High	N/A	N/A	4.7	0	12.4	0	70

Figure 2: Construction dust hourly mean indicative PM<sub>10</sub> concentration for Dust s/n 1026 - #82 and #552 (November 2019)



Note: Dust s/n 1026 - #82 has been replaced by #552 on 20<sup>th</sup> of November

Figure 3: Construction dust hourly mean indicative PM<sub>10</sub> concentration for Dust s/n 1031 - #85 and #775 (November 2019)



Note: Dust s/n 1031 - #85 has been replaced by #775 on 20<sup>th</sup> of November