

Air Quality and Dust Monitoring Monthly Report – October 2019

Birmingham City Council



Department for Transport

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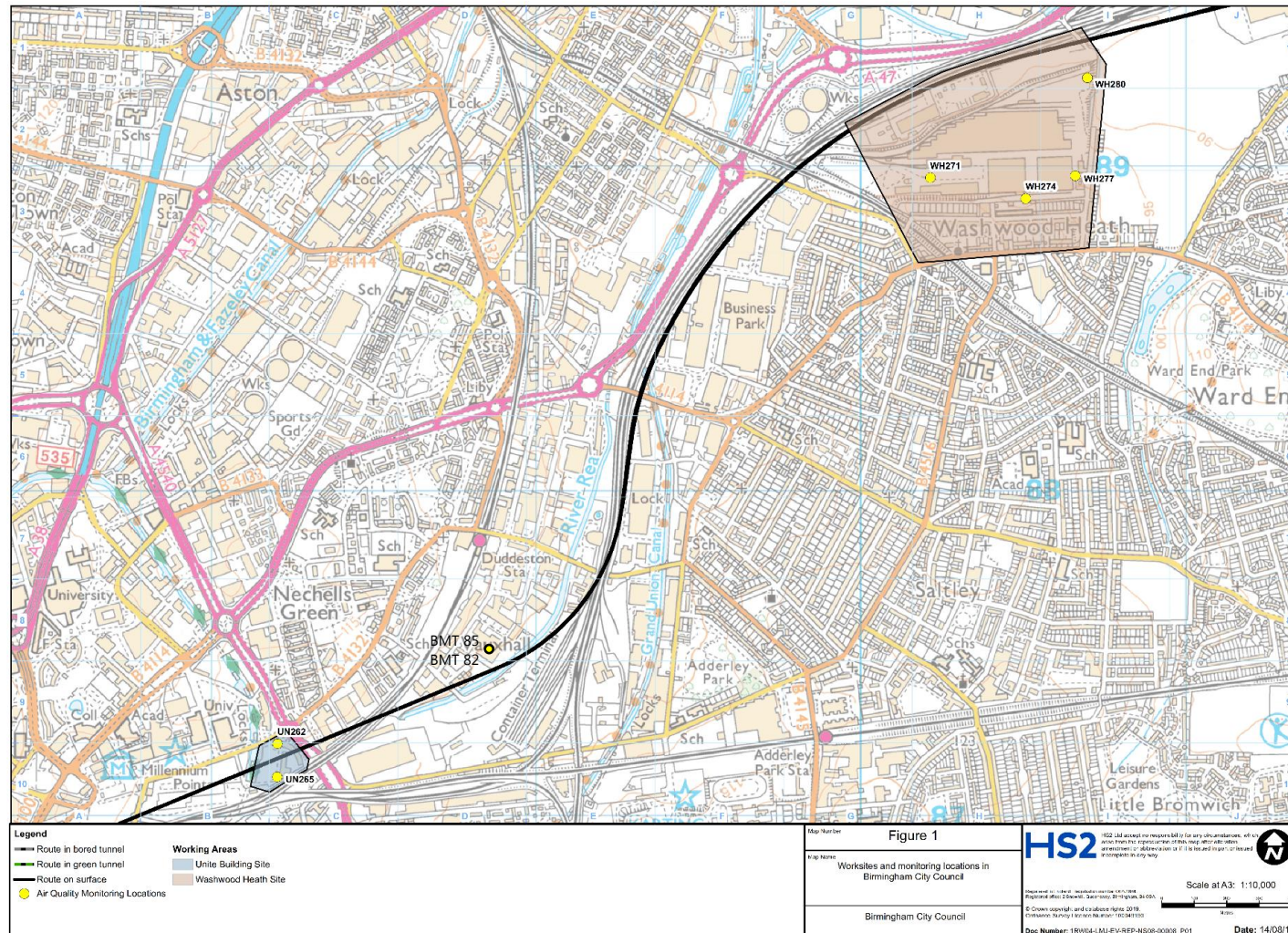
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Monthly Summary

- 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 October 2019.
- 1.1.2 Figure 1 in Appendix A indicates the BCC worksites together with dust monitoring locations for October 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 The phase of works comprising demolition works at the Washwood Heath Site, and at the Unite Building Site were completed on the 20th September and on the 30th September respectively. All dust monitors were removed at both sites at the end of September therefore no further data was collected at these sites in October.
- 1.1.5 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.
- 1.1.6 Dust monitoring locations and results for October 2019 are presented in Appendix B, Table 1 together with line charts for September 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.
- 1.1.7 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.
- 1.1.8 There were no (0) dust trigger alerts recorded during the monitoring period (October 2019).
- 1.1.9 No (0) complaints were received relating to air quality and dust during this monitoring period (October 2019).

Appendix A –Worksite and Dust Monitoring Locations

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



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and August 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 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 rate (%) |
|--------------------|-------------------|-------------------------------------|---------------------------|--------------------------------------|---|---|--|--|---|-----------------------|
| HS2 BMT 82 | 3890193,127124 | Monitor outside the building | High | N/A | N/A | 6.1 | 0.8 | 44.8 | 0 | 100.0 |
| HS2 BMT 85 | 3890165,127105 | Monitor secured inside the building | High | N/A | N/A | 2.1 | 0 | 16.7 | 0 | 100.0 |

Figure 1: Construction dust hourly mean indicative PM₁₀ concentration for Dust s/n 1026 - #82 (October 2019)

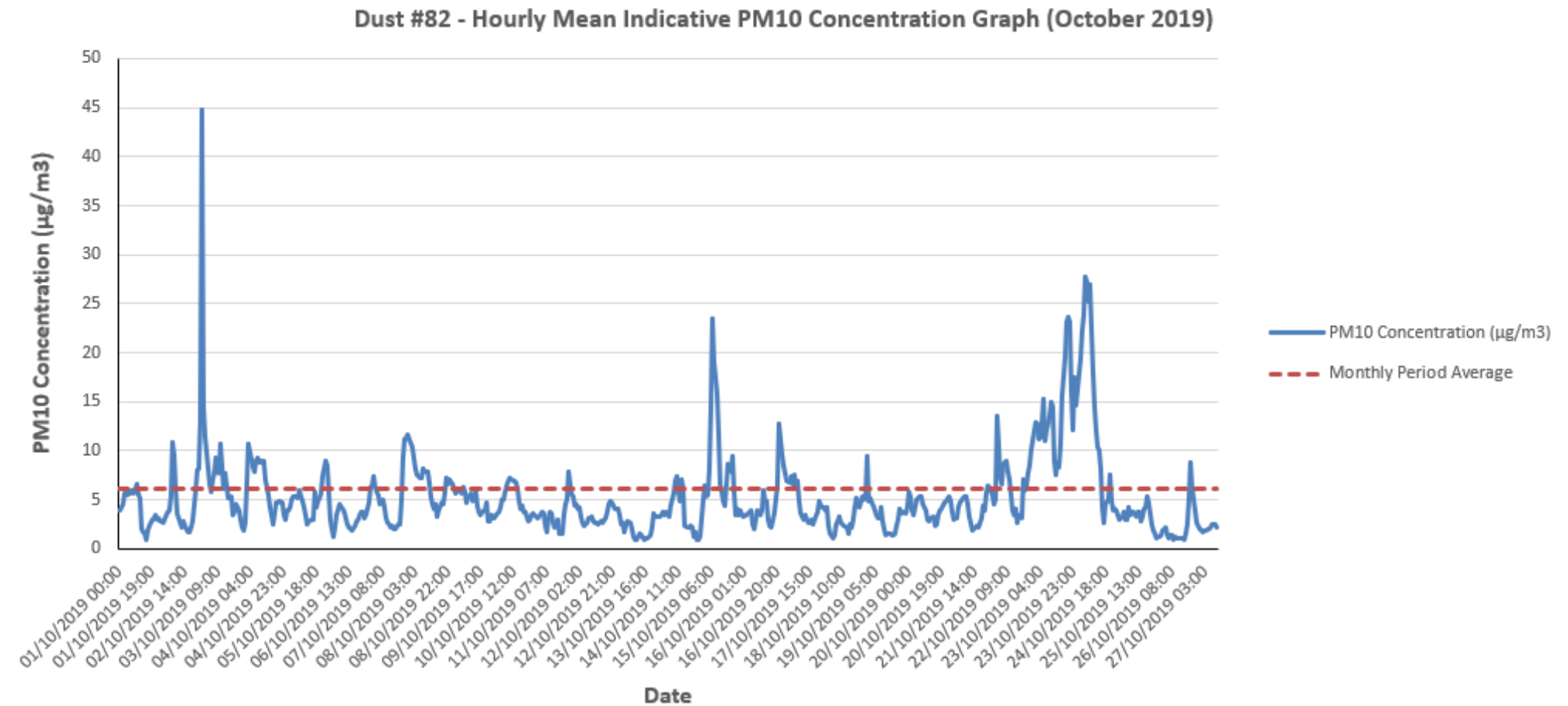


Figure 2: Construction dust hourly mean indicative PM₁₀ concentration for Dust s/n 1031 - #85 (October 2019)

