

Air Quality and Dust Monitoring Monthly Report – February 2019

North Warwickshire Borough Council



Department for Transport

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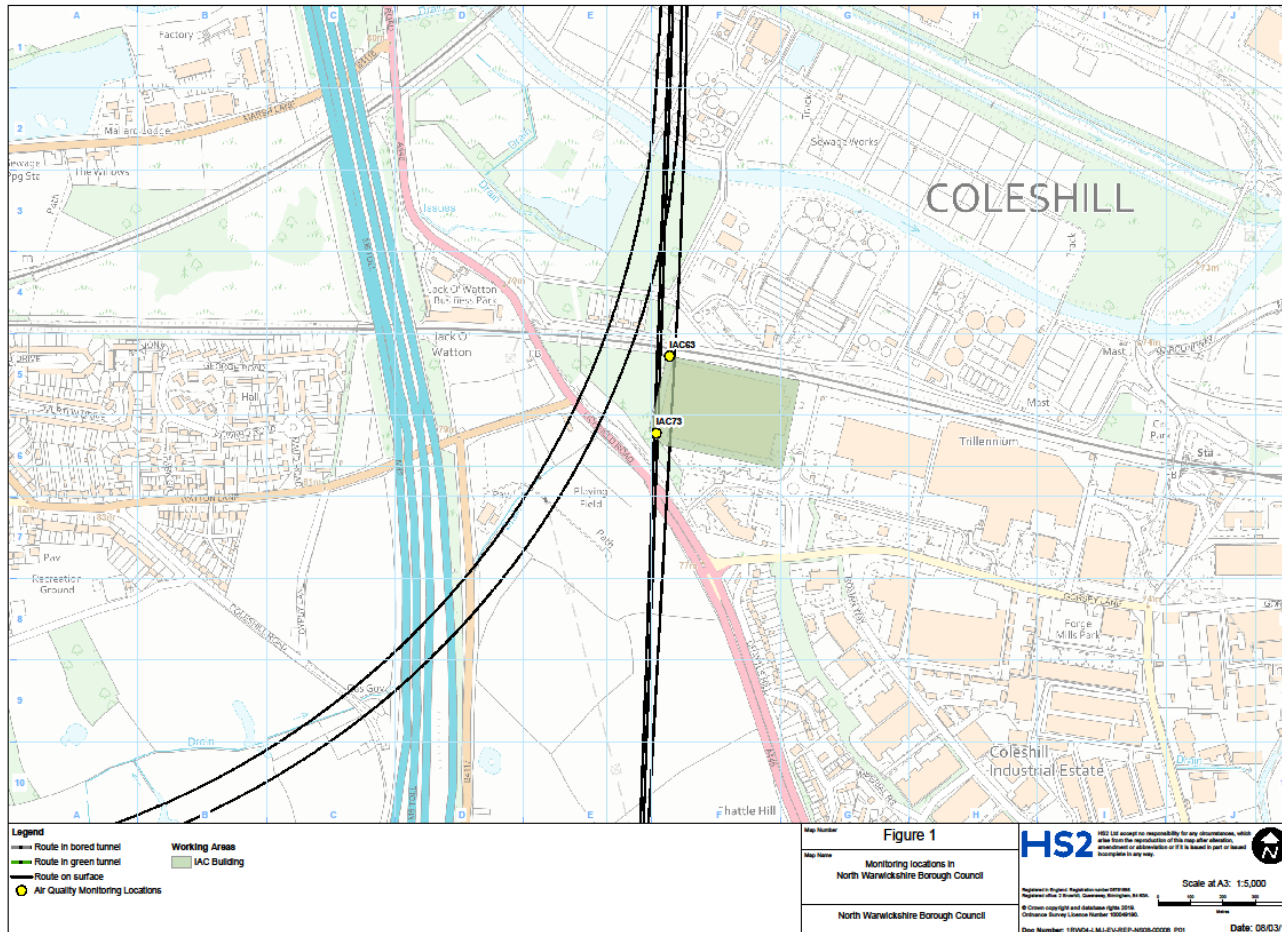
Monthly Summary

- 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 within North Warwickshire Borough Council (NWBC) during February 2019.
- 1.1.2 Figure 1 in Appendix A indicates the current work site together with dust monitoring locations for February 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 current phase of works commenced in NWBC during January 2019 at the IAC building Site, and will continue to run into the Spring/Summer.
- 1.1.5 The current monitoring locations at the IAC building worksite, as presented in Appendix A, Figure 1, include demolition of the existing buildings. The building to be demolished is constructed of metal cladding on a steel frame. Crushing of the demolished material will not take place at this site, however there will be excavation to the underside of the slab, which has the potential to be dusty.
- 1.1.6 Two (2) dust monitors (DM11s) were installed for the current phase of work. The demolition and pre-demolition works is underway at this site. The site was previously classified as a medium to low dust risk.
- 1.1.7 Dust monitoring locations and results for February 2019 are presented in Appendix B Table1, together with line charts for February from each dust monitor.
- 1.1.8 The trigger levels within this February report are in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – October 2018*'. Therefore, a trigger level of $190 \mu\text{g}/\text{m}^3$, measured as a 1-hour mean has been applied.
- 1.1.9 No exceedances of the 1-hour average dust trigger level of $190 \mu\text{g}/\text{m}^3$ were recorded during the monitoring period.
- 1.1.10 During February 2019, the data capture was below 90% for both monitors 63 (IAC 10) and 73 (IAC 11). Problems with power supply at these sites has been the cause of this loss of data.

- 1.1.11 No complaints were received for dust or air quality during the monitoring period (February 2019).

Appendix A – Worksite and Dust Monitoring Locations

Figure 1: IAC Building Worksite and Monitoring locations during February 2019



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and February 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 10 IAC 63	419096,291171	Monitor secured on a stand	Medium to Low	Yes	N/A	31.6	3.7	177.6	None	83.0
HS2 11 IAC 73	419075,291052	Monitor secured on a stand	Medium to Low	Yes	N/A	24.0	8.7	68.4	None	86.0

Figure 1: Construction dust hourly mean indicative PM₁₀ concentration for WSP HS2 10 IAC 63 (February 2019)

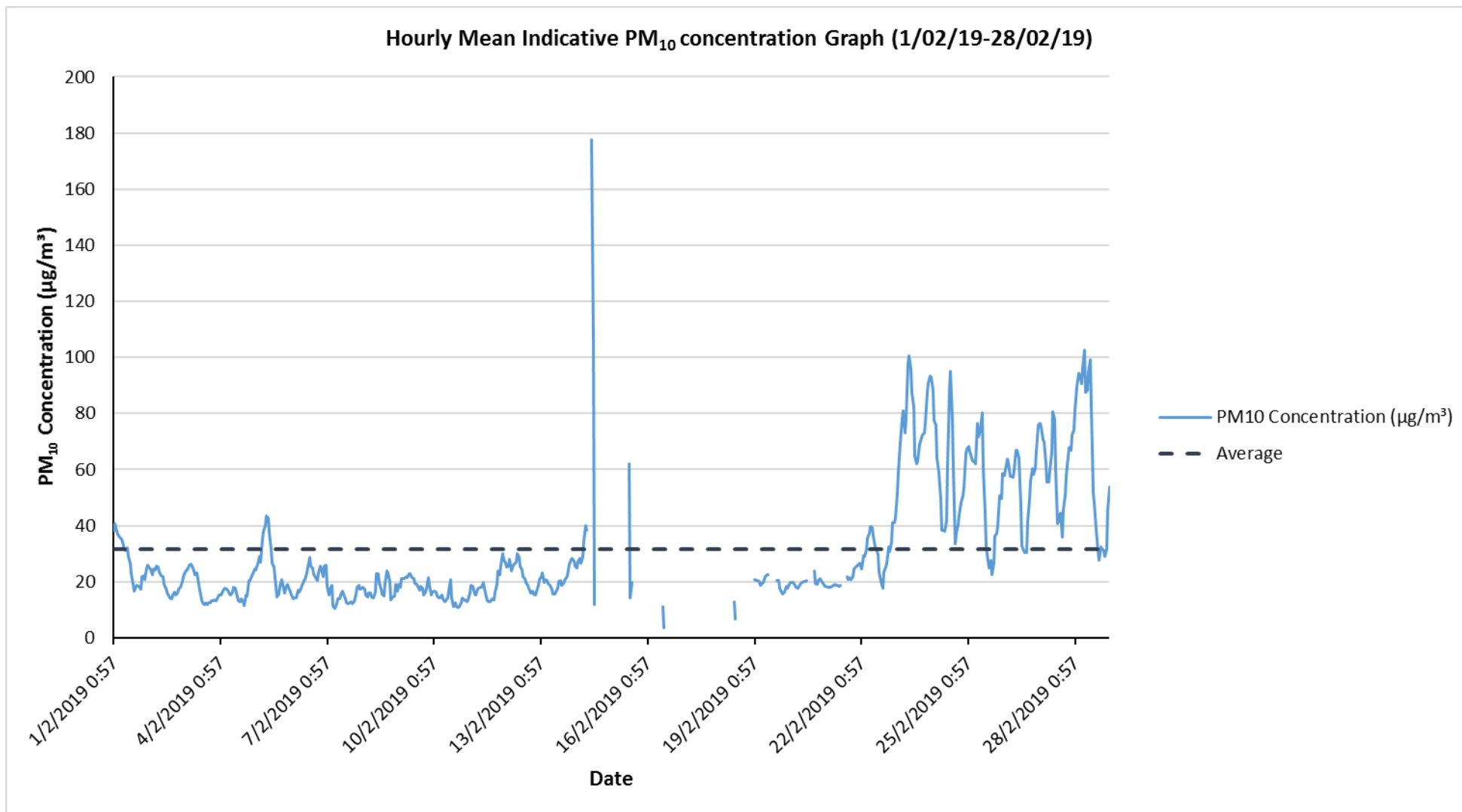


Figure 2: Construction dust hourly mean indicative PM₁₀ concentration for WSP HS2 11 IAC 73 (February 2019)

