

Air Quality and Dust Monitoring Monthly Report – April 2019

North Warwickshire Borough Council



Department
for Transport

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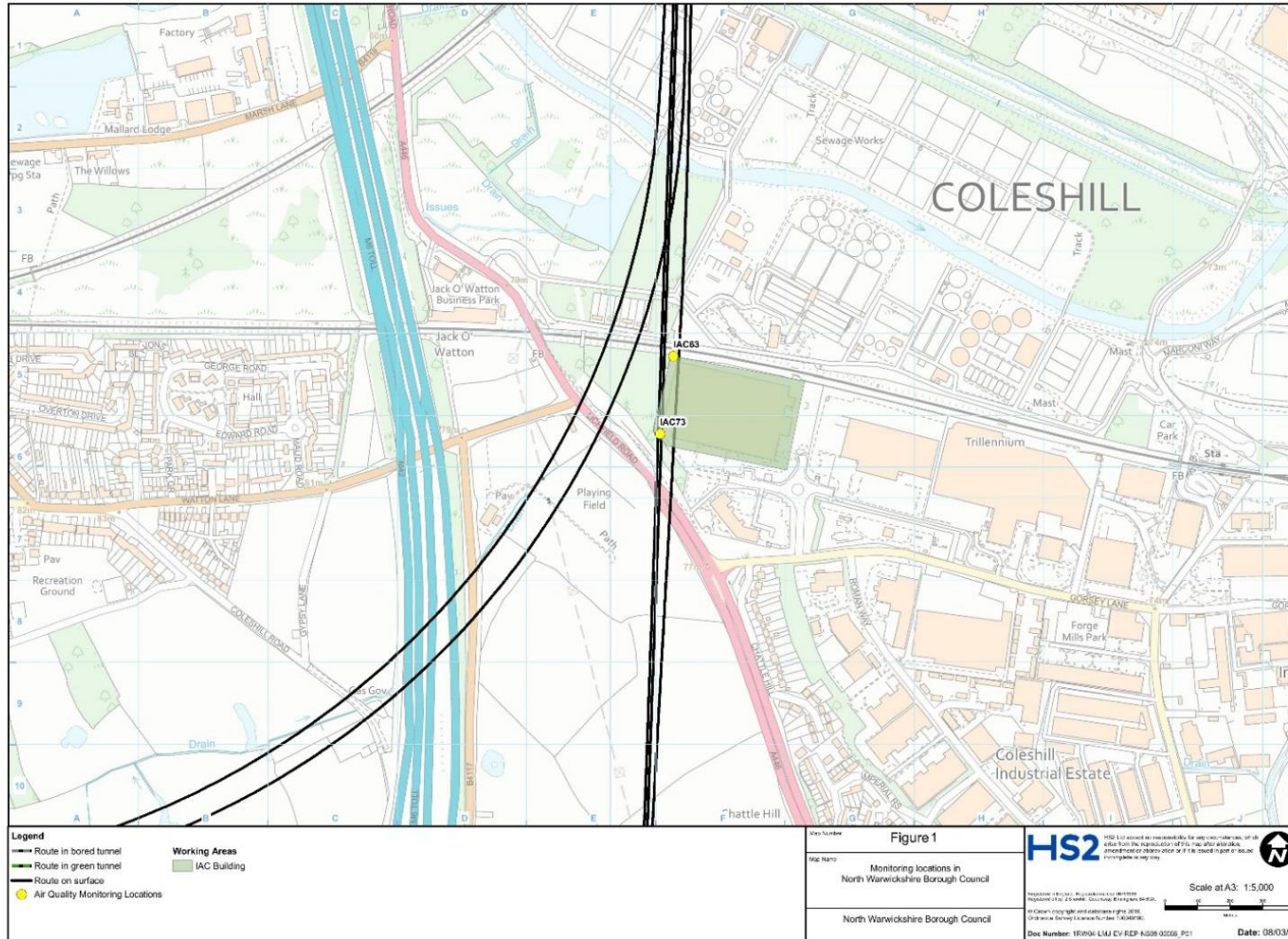
Monthly Summary

- 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 April 2019.
- 1.1.2 Figure 1 in Appendix A indicates the current worksite together with dust monitoring locations for April 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 2019.
- 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 being 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 are underway at this site. The site was previously classified with a medium to low dust risk rating.
- 1.1.7 Dust monitoring locations and results for April 2019 are presented in Appendix B Table 1, together with line charts for April 2019 from each dust monitor.
- 1.1.8 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.
- 1.1.9 Three (3) trigger level exceedances were recorded for the IAC Building Site during April 2019. This event was recorded by device HS2-10IAC-63 on 18/04/2019 from 06:00 to 09:00 Hrs. The event was observed to start with a PM_{10} concentration was 214.9 $\mu\text{g}/\text{m}^3$ and the maximum PM_{10} concentration during this event was 240.5 $\mu\text{g}/\text{m}^3$. No other exceedances were observed during the month. The outcomes of the investigations relating to these triggers are presented in Table 2.
- 1.1.10 The data capture was 100% for both monitors 63 (IAC 10) and 73 (IAC 11) during April 2019.

- 1.1.11 No complaints were received in relation to dust and air quality during this monitoring period (April 2019).

Appendix A – Worksite and Dust Monitoring Locations

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



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and April 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	37.1	1.8	240.5	3	100.0
HS2 11 IAC 73	419075,291052	Monitor secured on a stand	Medium to Low	Yes	N/A	28.9	7.1	155.2	0	100.0

Table 2: Summary of exceedances of trigger level in April 2019

Period exceeding trigger level	Worksite reference	Monitoring site ID	Complaint reference number (if applicable)	Reason	Resolution
18/04/2019 06:00 – 18/04/2019 08:00 (3 triggers)	IAC Building Site	HS2 10 IAC 63	N/A	Following on-site investigations of the triggers, it was concluded that the elevated concentrations were associated with a background regional meteorological event, and not as a consequence of on-site activities.	N/A

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

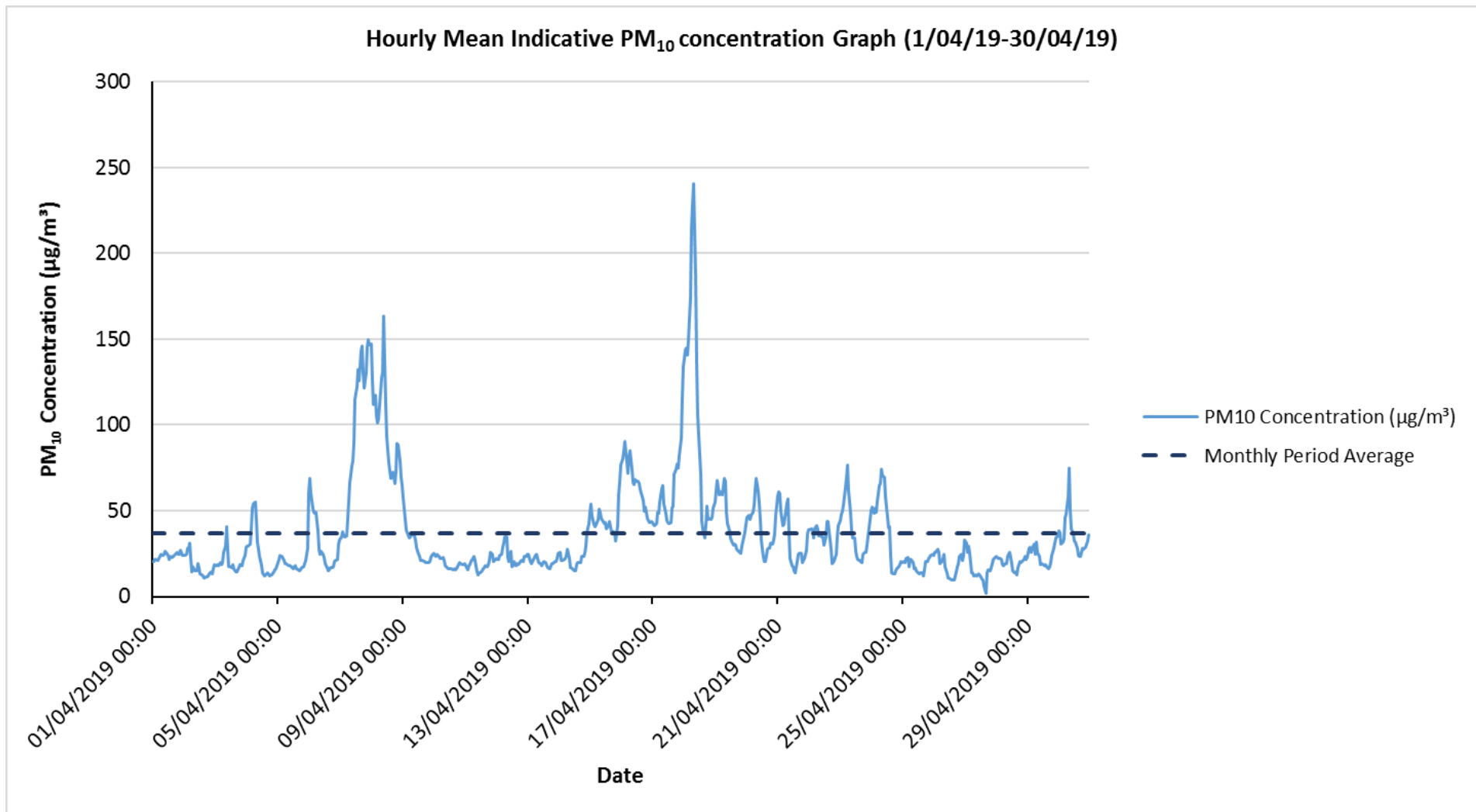


Figure 2: Construction dust hourly mean indicative PM₁₀ concentration for WSP HS2 11 IAC 73 (April 2019)

