

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

**North Warwickshire Borough Council**



## Department for Transport

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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](mailto:HS2enquiries@hs2.org.uk)

Website: [www.gov.uk/hs2](http://www.gov.uk/hs2)

A report prepared by LM on behalf of HS2 Ltd.

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# Monthly Summary

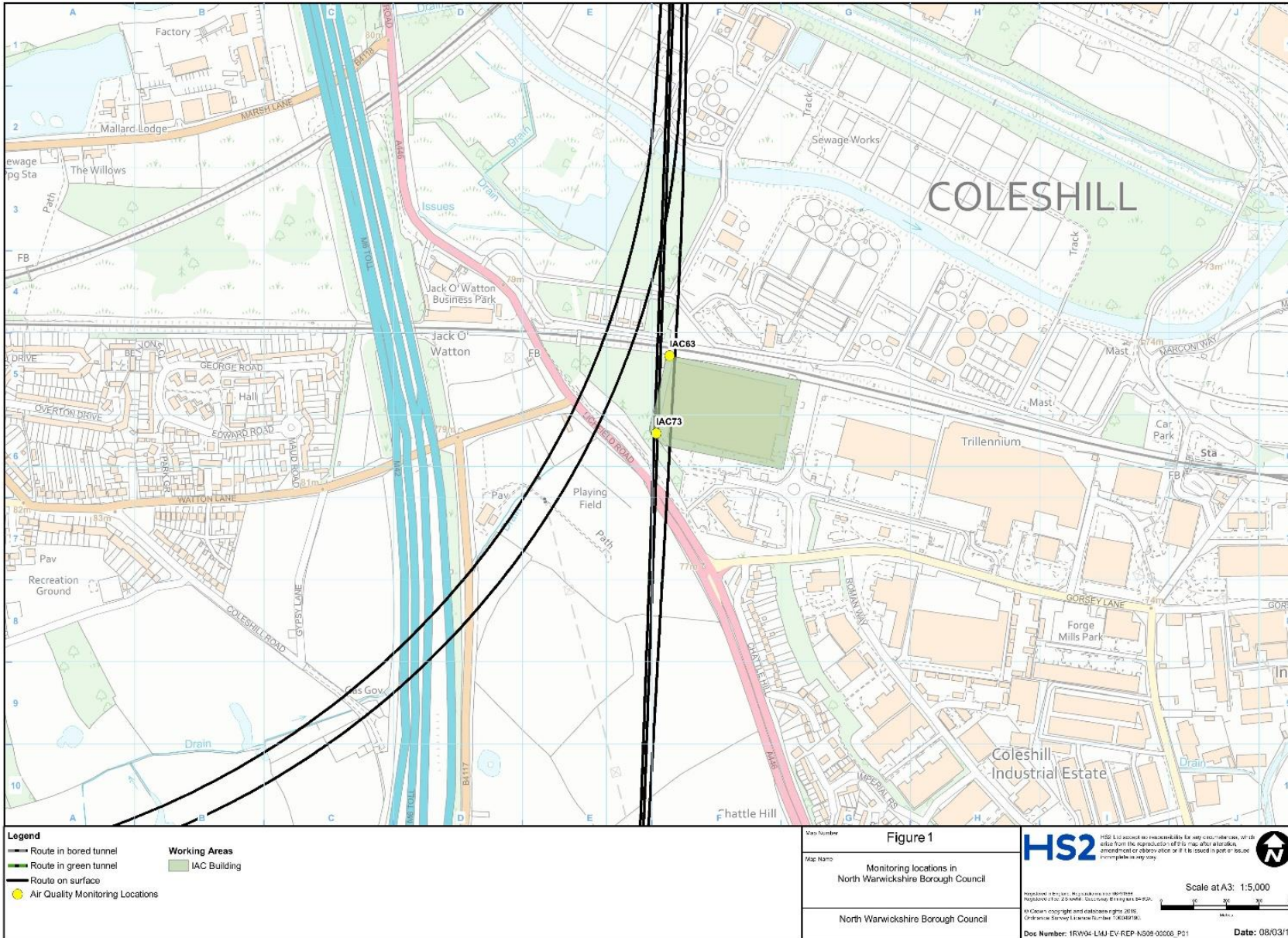
- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High-Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of dust monitoring undertaken within North Warwickshire Borough Council (NWBC) during May 2019.
- 1.1.2 Figure 1 in Appendix A indicates the current worksite together with dust monitoring locations for May 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 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 the demolition of the existing buildings. The buildings to be demolished are 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 works. The demolition and pre-demolition works are underway at this site. The site was previously classified with a medium to low dust risk. Works at this site finished at the end of May 2019, and the dust risk at the site was re-assessed based on the next phase of works. The outcome of the re-assessment found that the dust risk had reduced to a low risk, and therefore in line with the Code of Construction Practise and Information Paper E31: Air Quality, monitoring was ceased on the site in May 2019.
- 1.1.7 Dust monitoring locations and results for May 2019 are presented in Appendix B Table Table 1, together with line charts for May 2019 from each dust monitor.
- 1.1.8 The trigger level of 190 µg/m<sup>3</sup> over a 1-hour period, in accordance with the updated Institute of Air Quality Management (IAQM) guidance document 'Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – October 2018)' 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 The data capture was 100% for both monitors 63 (IAC 10) and 73 (IAC 11) during May.
- 1.1.11 No complaints were received in relation to dust and air quality during this monitoring period (May 2019).

# Appendix A – Worksite and Dust Monitoring Locations

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





## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and May 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 (%)
HS2 10 IAC 63	419096,291171	Monitor secured on a stand	Medium to Low	Yes	N/A	21.4	10.7	59.6	0	100.0
HS2 11 IAC 73	419075,291052	Monitor secured on a stand	Medium to Low	Yes	N/A	17.7	6.4	40.9	0	100.0



Figure 1: Construction dust hourly mean indicative PM<sub>10</sub> concentration for WSP HS2 10 IAC 63 (May 2019)

