

Air Quality and Dust Monitoring Monthly Report – December 2019

Oxfordshire County Council



Department for Transport

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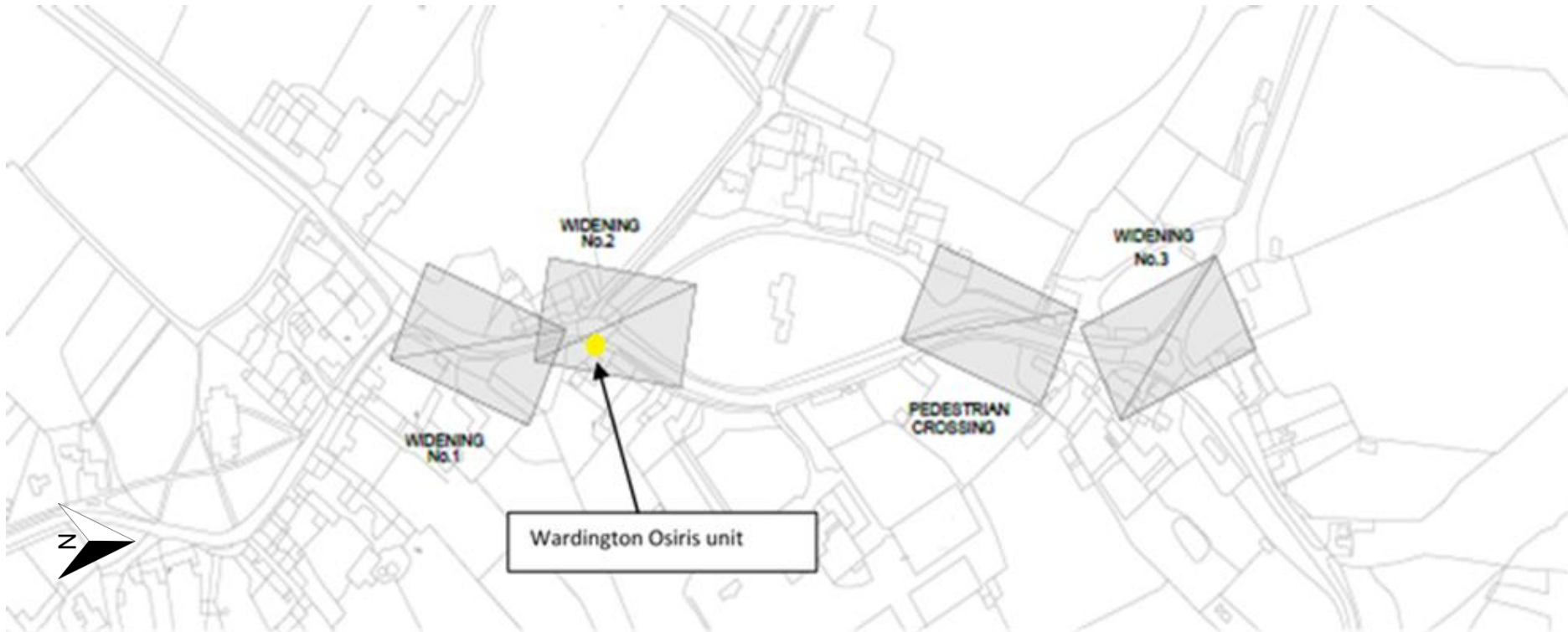
Monthly Summary

- 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 in Oxfordshire County Council (OCC) during December 2019.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location for December 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 methodology to be implemented by nominated undertakers throughout construction.
- 1.1.4 The current phase of works commenced during November 2019 and is expected to be completed by July 2020. The site closed for the festive period on 13th December 2019, and no dust-related activities were undertaken between the 14th and 31st December 2019. As works on the site commenced on 27th November, the monitoring results undertaken during November 2019 are included in this Summary Report for completeness. Therefore, this Summary Report covers the period between 27th November 2019 and 13th December 2019. Only site survey work was undertaken during the monitoring period, as presented in Appendix A, Figure 1. The current works form part of Wardington road-widening item of the DC3A Work Package and included:
- Site surveys; and
 - Trial hole in verge (at widening 1).
- 1.1.5 One (1) dust monitor is installed around the worksites, where earthworks, construction and trackout activities are underway. These sites returned a medium dust risk rating (for works currently active on site).
- 1.1.6 Dust monitoring location and results are presented in Appendix B, Table 1, together with a line chart of monthly data from this dust monitor presented in Figure 2. 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) complaints, relating to dust or air quality, received during this monitoring period (December 2019).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations during December 2019 within Oxfordshire County Council



Appendix B – Dust Monitoring Results

Table 1 Dust monitoring locations and Results (27th November – 13th December 2019)

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 (%)
AQ002	449064, 246552	Secured to a lamppost opposite the entrance to Wardington House (outside of house number 3 on the A361)	M	Yes	No	8.1	0.5	67.5	0	100

Figure 2: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitor AQ002

