

Air Quality and Dust Monitoring Monthly Report – April 2021

Cherwell District 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 the Cherwell District Council (CDC) area during April 2021.
- 1.1.2 Figures 1 in Appendix A presents the current worksites together with the dust monitoring location for April 2021.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report 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 at the A4421 Overbridge worksite, within the administrative boundary of CDC, commenced in January 2021 and is expected to be completed by August 2021. The current A4421 Overbridge worksite, as presented in Appendix A, Figure 1, included: temporary compound, trial holes surveys, trial embankment, vegetation clearance and Finmere bridge preliminary works.
- 1.1.5 One (1) dust monitor is installed at the worksite, where preparation for concrete using hand tools and a small excavator, and concreting activities are underway. Dust Risk Assessments for each worksite returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with a line chart of monthly data from the 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 for PM₁₀ concentrations 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 (April 2021).
- 1.1.9 Data capture for monitor T2G-AQMP1 was below 90% for the month of April 2021. This was due to the monitor being installed on Friday 14/06/21, and a temporary loss of power, which has since been resolved.

- 1.1.10 There were no (0) complaints, relating to dust or air quality, received during this reporting period (April 2021).

Appendix A – Monitoring Locations

Figure 1: Worksite and monitoring locations during April 2021



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and April 2021 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 (%)
TG2-AQMP1	462904, 231144	Site boundary adjacent property on A4421	M	Yes	Yes	10.1	3.2	41.1	0	53.2

Figure 2: Continuous dust 1-hour mean indicative PM₁₀ concentration for T2G-AQMP1 for April 2021

