

Air Quality and Dust Monitoring Monthly Report – April 2023

Cherwell District Council



Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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A report prepared by EWCs and MWCCs 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 in the Cherwell District Council (CDC) during April 2023.

1.1.2 Figure 1 in Appendix A presents the current worksite together with the dust monitoring location for April 2023.

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 worksites, as presented in Appendix A, Figure 1, include:

A4421 Overbridge worksite

- Newton Purcell Ditch Diversion
- Newton Purcell Platform Creation
- Stump Removal
- Topsoil Stripping
- Subsoil Excavation

A421 Overbridge worksite

- Access track formation
- Backfill of ponds
- Type 1 deliveries
- V ditch formation
- A421 North Platform Creation
- White lining was completed
- Pond lining was completed and backfilled with subsoil as per design
- Security Fencing around the compound perimeter was installed
- VRS barrier was installed
- Anglian water finished works on the water connection process and back-to-back was completed beginning of May.
- Compound & BFH signage was installed and approved on a RSA 3 visit

1.1.5 Two (2) dust monitors are installed at the worksite, where works are underway. These sites 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 No (0) dust trigger alerts were recorded during the monitoring period (April 2023).
- 1.1.9 Data capture was below 90% at Newton Purcell-Finmere due to the dust monitor being retrieved on 14th April 2023.
- 1.1.10 No (0) complaints were received during the reporting period.

Appendix A –Monitoring Locations

Figure 1: Worksite and Monitoring locations within the CDC



- Legend**
- Dust Monitor
 - District Borough Unitary Boundaries

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Map Number	
Map Name	Monitoring Locations In T2G, Cherwell DC (Sheet 1)
	Cherwell District Council

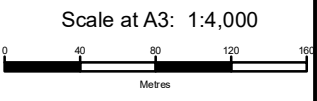


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Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and April 2023 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	1-hour data capture (%)
Newton Purcell - Finmere	462904, 231144	Site boundary adjacent property on A4421	M	Yes	Yes	8.0	1.0	43.0	0	45.1
A421 North	462156, 233290	A421	M	Yes	Yes	9.8	1.0	45.0	0	99.6

Figure 2: Continuous dust 1-hour mean indicative PM₁₀ concentration for all dust monitors

