

Air Quality and Dust Monitoring Monthly Report – June 2021

Cherwell District Council



Department for Transport

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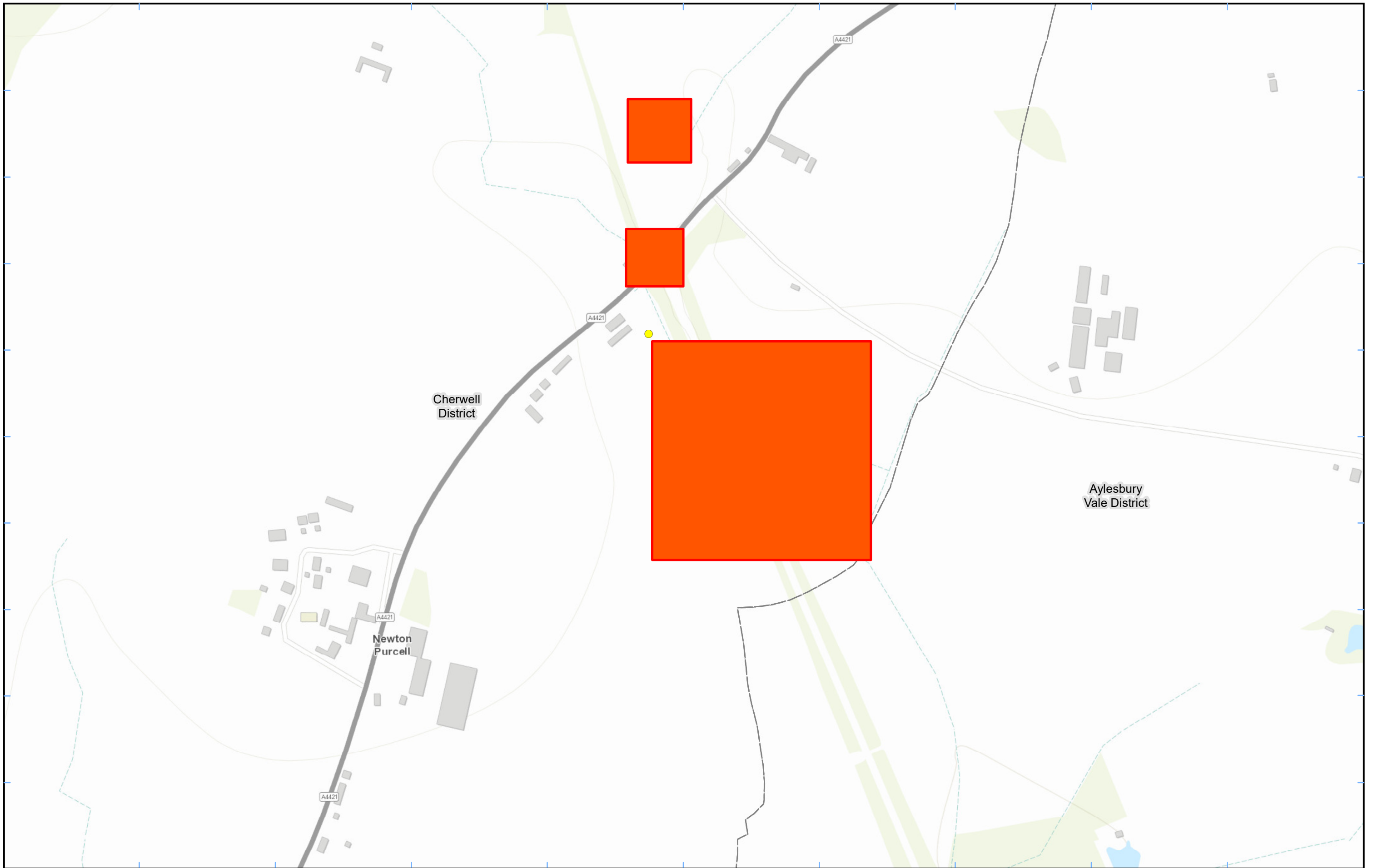
Monthly Summary

- 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 June 2021.
- 1.1.2 Figure 1 in Appendix A presents the current worksites together with the dust monitoring location for June 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 worksite, within the administrative boundary of CDC, commenced in April 2021. The current A4421 Overbridge worksite, as presented in Appendix A, Figure 1, included the following activities:
- Lime stabilisation of Access Road Ch 87+200 to 87+600;
 - Pour of Concrete Blinding North and South;
 - Steel fixing and pour of both Concrete bench seat and upstand A4421 North;
 - Steel fixing of bench seat A4421 South;
 - Infill of star void on A4421 North;
 - Platform extension on A4421 North (Stone placement and compaction); and
 - Concrete pad installation for the permanent monitoring.
- 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 four (4) dust trigger alerts recorded during the monitoring period (June 2021). Triggers are presented in Appendix B, Table 2. All other results were in line with the expected ranges.
- 1.1.9 There were no (0) complaints, relating to dust or air quality, received during this reporting period (June 2021).

Appendix A –Monitoring Locations

Figure 1: Worksite and Monitoring locations during June 2021 – TG2-AQMP1




Legend
 ● Dust Monitor
 □ District Borough Unitary Boundaries
 ■ Worksite

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Map Number


 Title
**Worksite and 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 June 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 | 10.5 | 0.9 | 687.3 | 4 | 90.3 |

Table 2: Summary of exceedances during period (June 2021)

| Monitoring Site ID | Period of trigger alert & Concentration recorded | Investigation | Outcomes / Resolution / Remedial measures implemented |
|--------------------|--|--|--|
| T2G-AQMP1 | 13/06/2021 13:01 – 14:00: 217.9ug/m ³ | At the time of the trigger alert, no EKFB works were being undertaken. | N/A |
| T2G-AQMP1 | 24/06/2021 14:01 – 15:00: 252.6 ug/m ³ 24/06/2021 16:01 - 17:00: 687.3 ug/m ³ | At the time of the alter, various transportation of steelwork from A4421 was underway. | Dust mitigation in line with the CoCP was being deployed across the working areas. |
| T2G-AQMP1 | 24/06/2021 18:01 – 19:00: 200.1ug/m ³ | At the time of the trigger alert, no EKFB works were being undertaken. | N/A |

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

