

Air Quality and Dust Monitoring Monthly Report – July 2022

Stafford Borough Council (SBC), Newcastle-
under-Lyme Borough Council (NBC) and
Cheshire East Council (CEC)



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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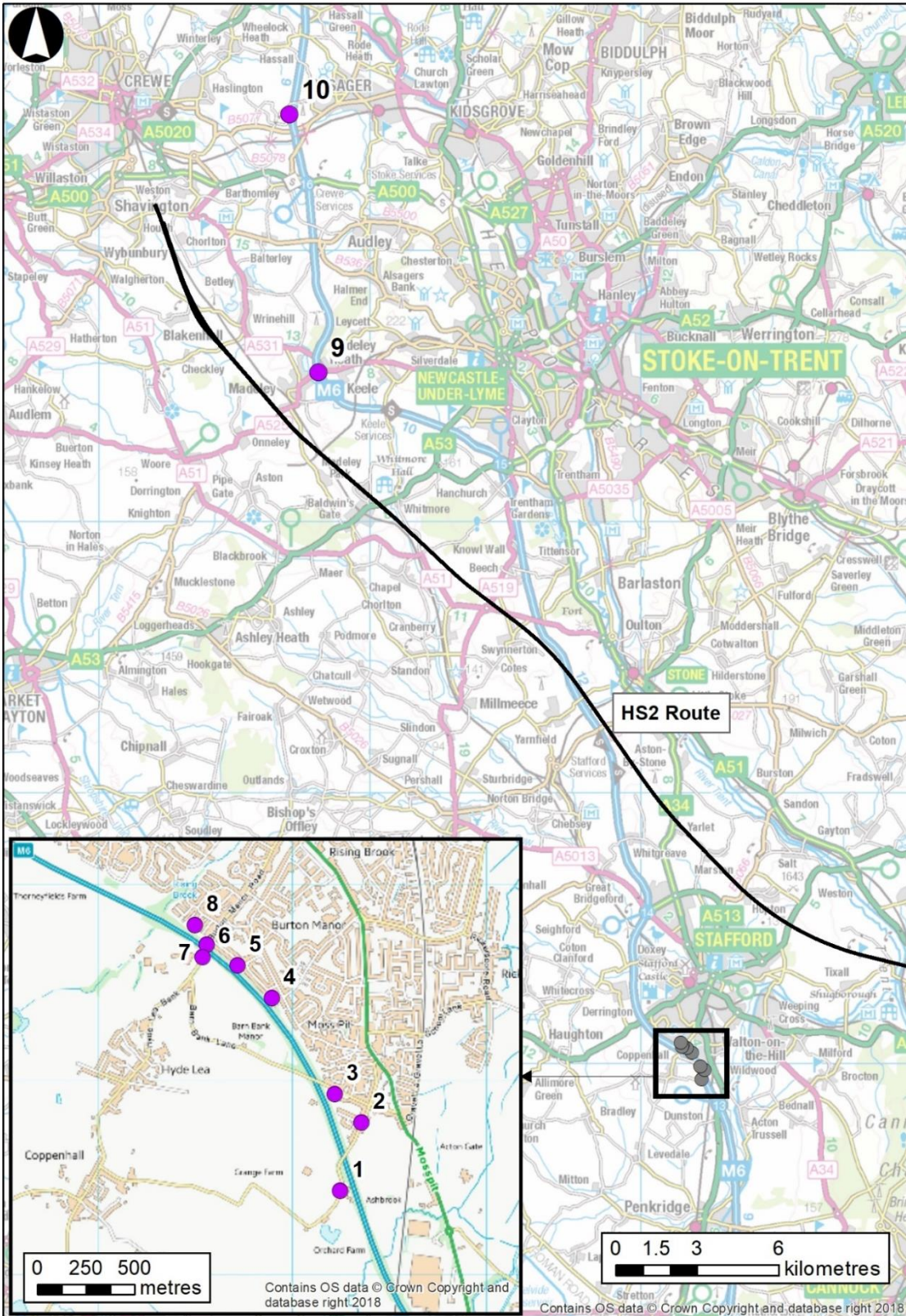
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Monthly Summary

- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (West Midlands to Crewe) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality monitoring undertaken in Stafford Borough Council (SBC), Newcastle-under-Lyme Borough Council (NBC) and Cheshire East Council (CEC) during June 2022.
- 1.1.2 Figure 1 in Appendix A indicates the current air quality monitoring locations.
- 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 monitoring methodology, to be followed by the nominated undertakers in undertaking the required air quality and dust monitoring.
- 1.1.4 There are no current worksites located within this area. Therefore, no dust monitoring has been carried out.
- 1.1.5 Diffusion tube monitoring of Nitrogen dioxide (NO₂) was undertaken at ten (10) locations in June 2022, around highways within SBC, NBC and CEC as part of the management of air quality where significant effects may occur as a result of the scheme.
- 1.1.6 Diffusion tube monitoring results are as provided from the laboratory analysis, and therefore still require various analysis and adjustments to be undertaken. Final corrected results will be presented and described in the annual report. However, based on the results to date, no unexpected values were recorded during the monitoring period.
- 1.1.7 NO₂ monitoring locations and results are presented in Appendix B, Table 1 alongside the running average for 2022.
- 1.1.8 There were no (0) complaints received during this reporting period (July 2022).

Appendix A –Monitoring Locations

Figure 1: Current monitoring locations within SBC, NBC and CEC



Appendix B – Air Quality Monitoring Results

Table 1: NO₂ concentrations and monthly monitoring results for June 2022 (µg/m³)

| Monitoring Site ID | Location description | Coordinates (X, Y) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Running average ⁱ |
|--------------------|----------------------|--------------------|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------|
| 1 | Ashflats Lane | 392247, 319432 | 14 | 6 | 21 | 12 | 6 | 5 | | | | | | | 11 |
| 2 | Ash Rise | 392355, 319784 | 23 | 12 | 20 | 13 | 11 | 12 | | | | | | | 15 |
| 3 | Barn Bank Lane | 392217, 319929 | 36 | 24 | 26 | 20 | 19 | 21 | | | | | | | 24 |
| 4 | Southfields Close | 391894, 320423 | 32 | 25 | 30 | 22 | 19 | 20 | | | | | | | 25 |
| 5 | Devon Way | 391717, 320592 | 33 | 23 | 28 | 19 | 17 | 20 | | | | | | | 23 |
| 6 | Burton Manor Road E | 391559, 320699 | 27 | 17 | 26 | - ⁱⁱ | 15 | 17 | | | | | | | 20 |
| 7 | Burton Manor Road W | 391539, 320634 | 23 | 12 | 29 | 19 | 13 | 10 | | | | | | | 18 |
| 8 | Crinan Grove | 391498, 320799 | 27 | 18 | 25 | 17 | 15 | 15 | | | | | | | 19 |
| 9 | Newcastle Road | 378110, 345523 | 35 | 26 | 30 | 22 | 18 | 18 | | | | | | | 25 |
| 10 | Nursery Road | 377035, 355030 | 17 | 9 | 26 | 17 | 10 | 9 | | | | | | | 15 |

ⁱ Note: to aid interpretation and conform with best practice, the monthly measurements in this table are reported rounded to the nearest whole number. The annual average presented here is calculated based on laboratory data to 4 significant figures, rounded to a whole number, and therefore may differ slightly to a mean derived from averaging the rounded monthly measurements in the table.

ⁱⁱ Diffusion tubes were missing from site.