

Air Quality and Dust Monitoring Monthly Report – September 2021

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



Department for Transport

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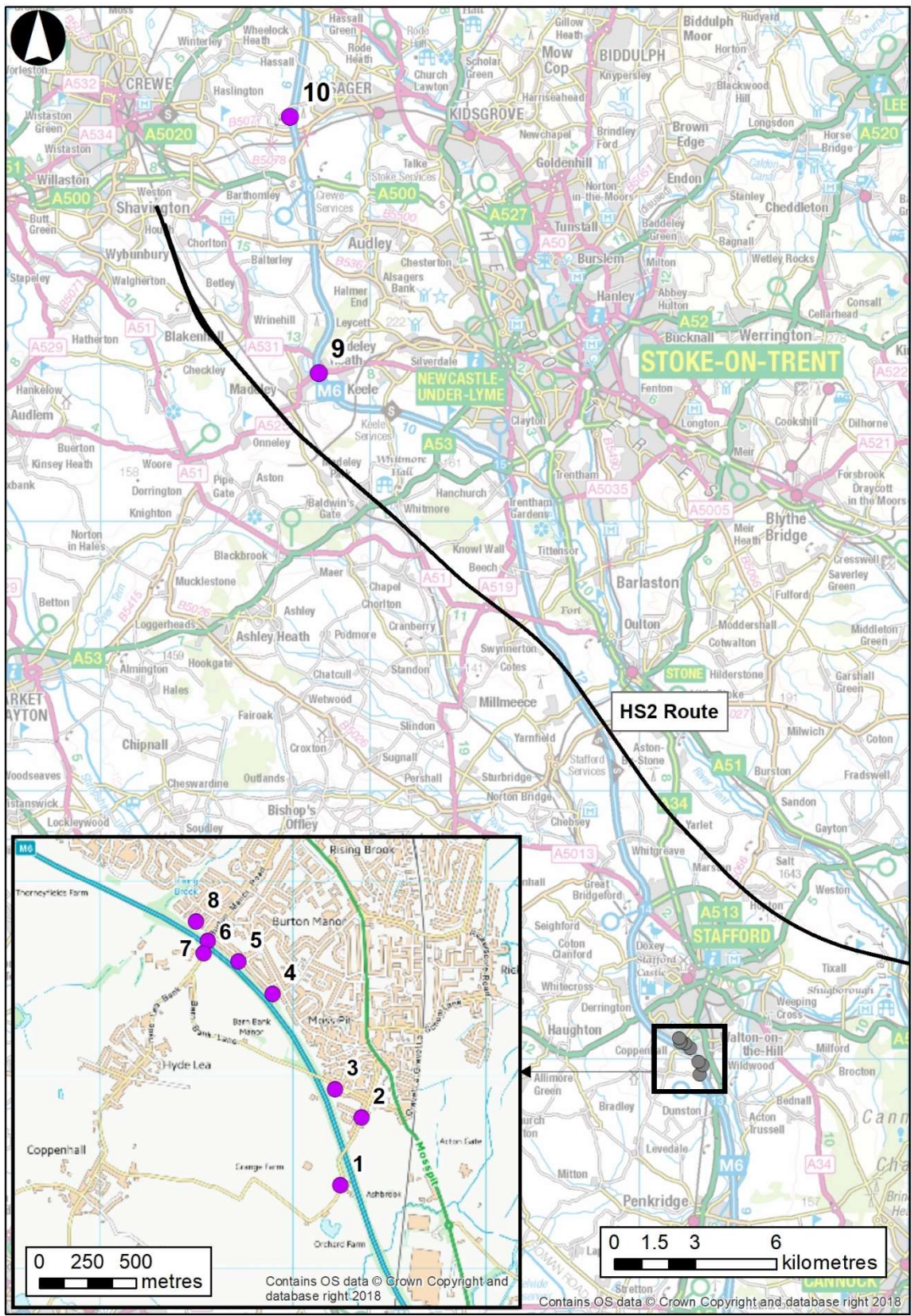
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Monthly Summary

- 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 August 2021.
- 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 out the applicable standards and guidance, as well as monitoring methodology, followed by nominated undertakers in undertaking the required air quality and dust monitoring.
- 1.1.4 There are no construction works being undertaken across Phase 2a. Current works include ground investigations; survey works and utility diversions. Therefore, no dust monitoring is being undertaken.
- 1.1.5 Diffusion tube monitoring of Nitrogen dioxide (NO₂) was undertaken at ten (10) locations in August 2021, around highways within SBC, NBC and CEC as part of the management of air quality where significant effects may occur as a result 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 2021, together with the 2021 running mean.
- 1.1.8 There were no (0) complaints received during this reporting period.

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 January to August 2021 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
1	Ashflats Lane	392247, 319432	18	16	10	14	10	10	9	9					12
2	Ash Rise	392355, 319784	21	18	17	15	14	12	13	11					15
3	Barn Bank Lane	392217, 319929	29	23	26	20	23	19	22	20					23
4	Southfields Close	391894, 320423	30	26	24	20	22	18	20	21					23
5	Devon Way	391717, 320592	30	24	24	18	21	16	19	19					21
6	Burton Manor Road E	391559, 320699	24	20	16	16	17	14	15	16					17
7	Burton Manor Road W	391539, 320634	23	21	N/A	22	17	16	17	16					19
8	Crinan Grove	391498, 320799	25	22	19	16	17	14	15	16					18
9	Newcastle Road	378110, 345523	32	24	27	22	24	19	21	20					24
10	Nursery Road	377035, 355030	20	22	13	17	14	13	12	13					15

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 mean 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.