

Air Quality and Dust Monitoring Monthly Report – August 2023

Royal Borough of Kensington and Chelsea



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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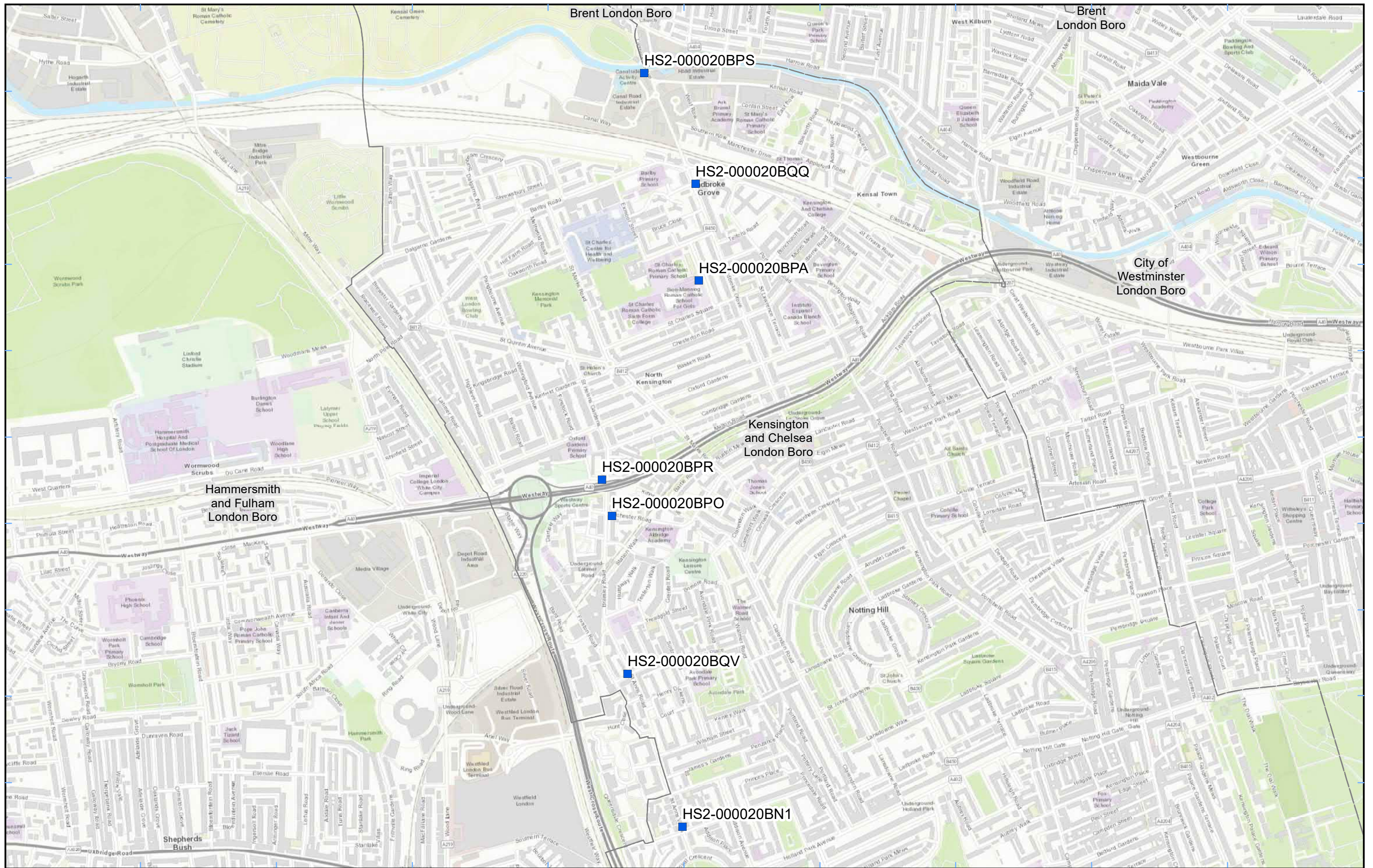
Monthly Summary

- 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 air quality monitoring undertaken in the Royal Borough of Kensington and Chelsea (RBKC) during August 2023.
- 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 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 There are no current worksites located within the RBKC. Therefore, no dust monitoring has been carried out.
- 1.1.5 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) is undertaken at seven (7) locations in around highways within the RBKC 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 reporting period.
- 1.1.7 NO₂ monitoring locations and results are presented in Appendix B, Table 1, together with the 2023 running mean.
- 1.1.8 There were no (0) complaints received during this reporting period (August 2023).

Appendix A – Worksites and Monitoring Locations

Figure 1: Current monitoring locations within the RBKC





Legend
■ Diffusion Tube
 District Borough Unitary Boundaries

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Map Number
 Map Name
Monitoring Locations In RBKC
 Royal Borough of Kensington and Chelsea

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Appendix B – Air Quality Monitoring Results

Table 1: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2023 (µg/m³)

| Monitoring Site ID | Location description | Coordinates (X, Y) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Mean ¹ |
|--------------------|--|--------------------|--------------|-----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-------------------|
| HS2-000020BN1 | Sign post on St Ann's Villas | 523998, 180160 | 44 | 44 | 34 | 35 | Tube Missing | 31 | 27 | | | | | | 36 |
| HS2-000020BPO | Lamp post off Silchester Road | 523792, 181066 | 17 | 40 | 27 | 21 | 25 | 23 | 19 | | | | | | 24 |
| HS2-000020BPR | Lamp post at junction of Crowthorne Road and Bramley Road | 523763, 181172 | Tube Missing | 41 | 32 | 29 | 29 | 27 | 24 | | | | | | 30 |
| HS2-000020BPS | Lamp post by fence on B450 Ladbroke Grove, south of A404 Harrow Road | 523886, 182358 | 44 | 43 | 37 | 36 | 34 | 30 | 24 | | | | | | 35 |

¹ 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.

| Monitoring Site ID | Location description | Coordinates (X, Y) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Mean ¹ |
|--------------------|--|--------------------|-----|-----|---------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|
| HS2-000020BQQ | Lamp post along Ladbroke Grove, near shops and bus stop at Trevorton Road junction | 524036, 182034 | 45 | 47 | 27 | 35 | 37 | 38 | 30 | | | | | | 37 |
| HS2-000020BQV | Lamp post on St Ann's Street | 523838, 180606 | 46 | 43 | No data | 22 | 27 | 27 | 23 | | | | | | 31 |
| HS2-000020BPA | Triplicate site at Sion Manning School, St. Charles' square, next to the North Kensington urban background automatic monitoring stations | 524045, 181752 | 34 | 33 | 22 | Tubes Missing | 16 | 16 | 15 | | | | | | 23 |