

Air Quality and Dust Monitoring Monthly Report - July 2020

London Borough of Brent



SKANSKA



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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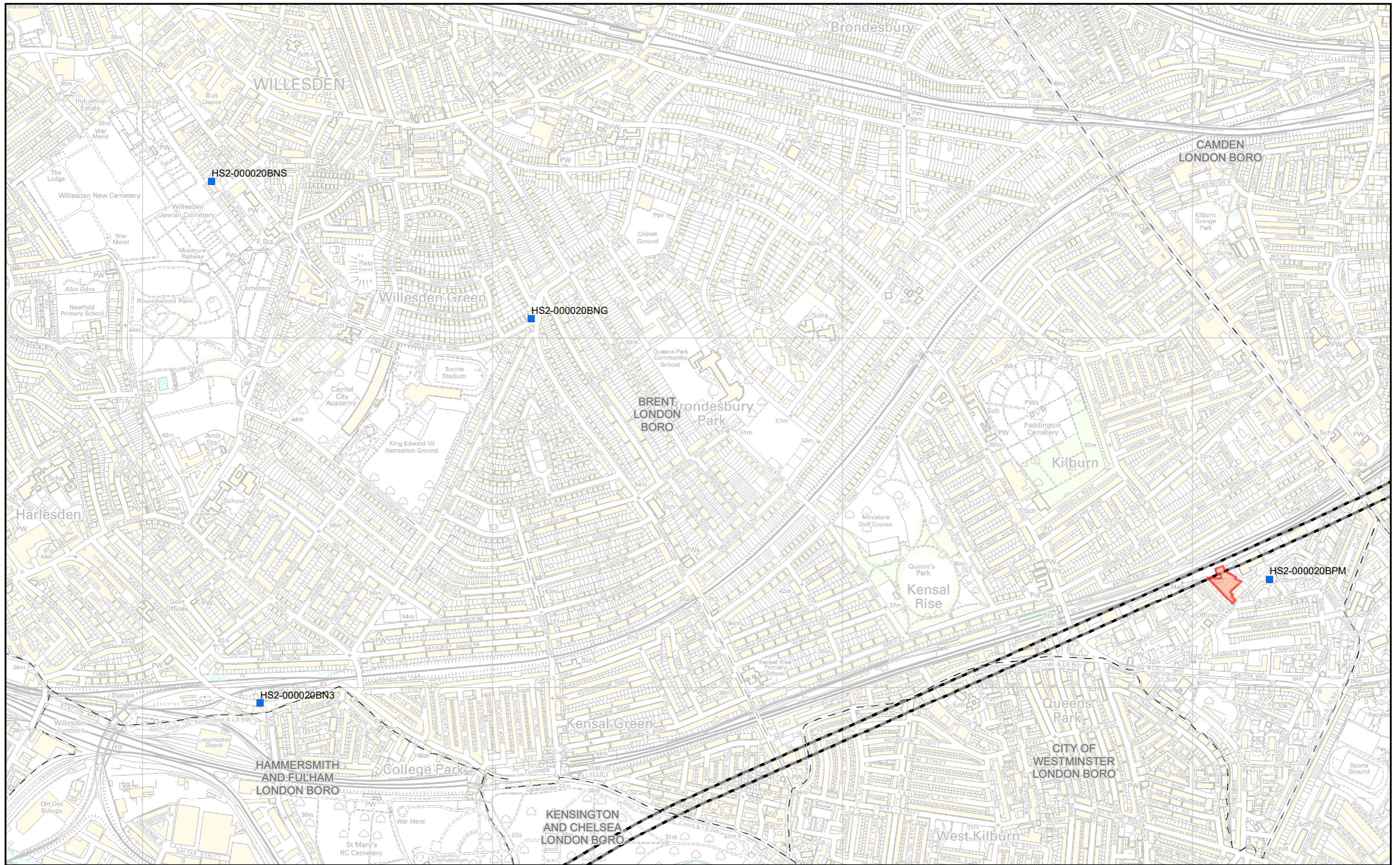
Monthly Summary

- 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 London Borough of Brent (LBB) during June 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with 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 The current phase of works commenced within the LBB in September 2018 and is now complete. No dust generating activities are currently underway with the LBB and therefore, dust monitoring will be reinstalled for the next stage of construction works later in 2020. Future construction work at the site has returned a medium dust risk rating.
- 1.1.5 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) is undertaken at four (4) locations around highways within the LBB 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 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, together with the 2020 running mean.
- 1.1.8 There were no (0) complaints received, relating to air quality, during this reporting period (July 2020).

Appendix A – Worksites and Monitoring Locations

Figure 1: Current monitoring locations within the LBB





- Legend**
- Route in tunnel
 - Route on surface
 - Diffusion tube monitoring location
 - Canterbury Road Vent Shaft

| | |
|---------------|------------------------------------|
| Figure Number | |
| Figure Name | Monitoring locations in LBB |
| | London Borough of Brent |

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Scale at A3: 10,000

Appendix B - Air Quality Monitoring Results

Table 1: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2020 (µg/m³)

| Monitoring Site ID | Location description | Coordinates (X, Y) | Jan | Feb | Mar ¹ | Apr ¹ | May ¹ | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Mean ² |
|--------------------|--|--------------------|-----|---------|------------------|------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-------------------|
| HS2-000020BN3 | Sign post on High Street Harlesden | 522335, 182955 | 62 | 48 | No data | | | 42 | | | | | | | 51 |
| HS2-000020BNG | Lamp post on Donnington Road | 523110, 184055 | 50 | 40 | No data | | | 29 | | | | | | | 40 |
| HS2-000020BNS | Lamp post on Tower Road by Willesden Jewish Cemetery | 522196, 184448 | 34 | No data | No data | | | 20 | | | | | | | 27 |
| HS2-000020BPM | Lamp post along Gorefield Place near block of flats | 525222, 183309 | 39 | 32 | No data | | | 21 | | | | | | | 31 |

¹ Note: Due to the Covid-19 pandemic and government lockdown it was not possible to conduct diffusion tube air quality monitoring during March, April and May 2020.

² 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.