

Air Quality and Dust Monitoring Monthly Report – January 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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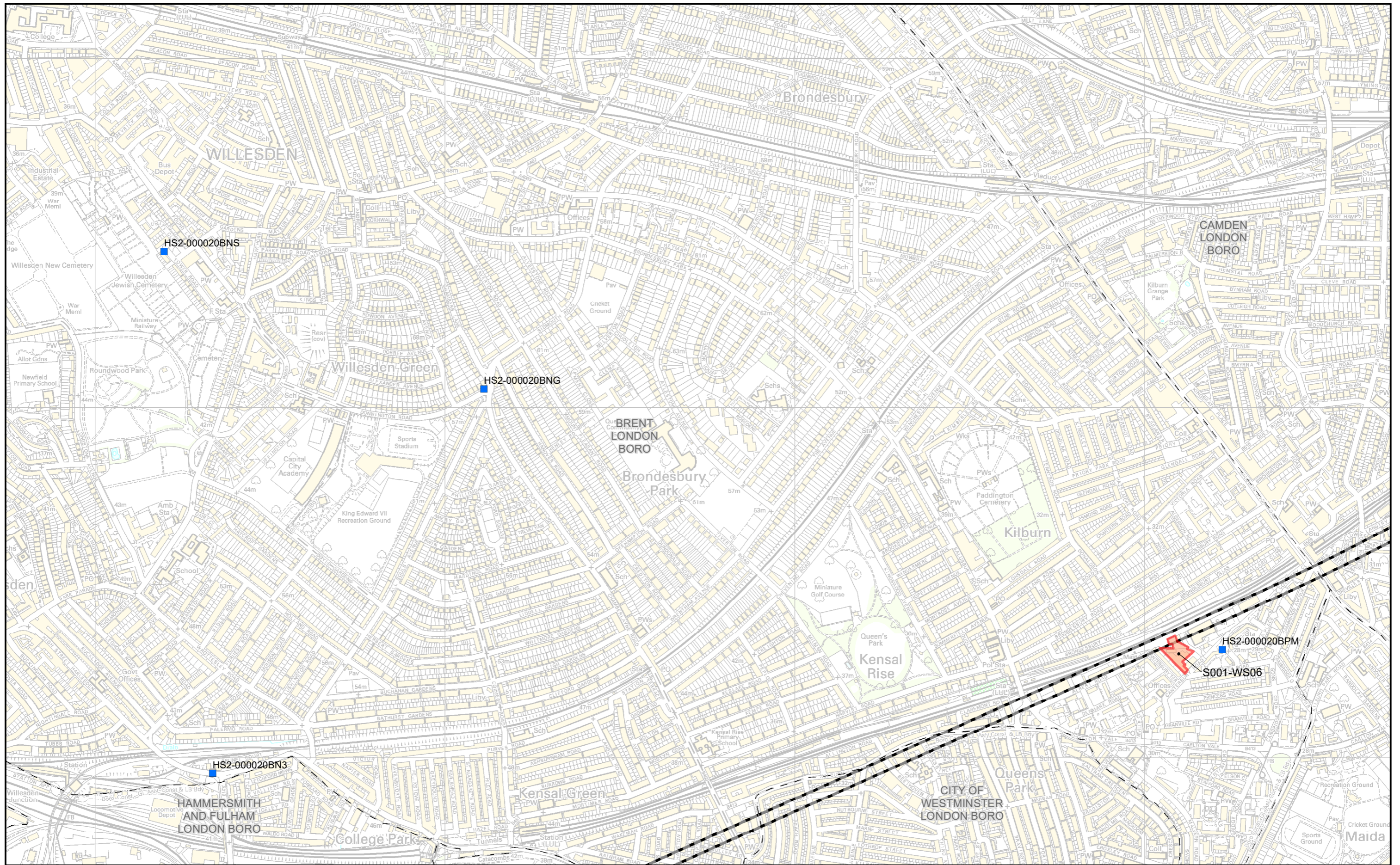
Monthly Summary

- 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 December 2019.
- 1.1.2 Figure 1 in Appendix A indicates the current worksite 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. The worksite, as presented in Appendix A, Figure 1, is:
- Canterbury Road Vent Shaft demolition works. Complete. Worksite ref. S001-WS06.
- 1.1.5 One (1) dust monitor was installed on the worksite when demolition works were underway. This monitor was decommissioned at the end of September 2019 following the completion of demolition. Monitoring will be reinstalled for the next stage of construction works in 2020. Future construction work at the site has returned a medium dust risk rating.
- 1.1.6 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) was undertaken at four (4) locations in December 2019, around highways within the LBB as part of the management of air quality where significant effects may occur as a result of the scheme.
- 1.1.7 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.
- 1.1.8 NO₂ monitoring locations and results are presented in Appendix B, Table 1, together with the 2019 running mean.
- 1.1.9 There were no (0) complaints received, relating to air quality, during this monitoring period (January 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 2019 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec ¹	Mean ²
HS2-000020BN3	Sign post on High Street Harlesden	522335, 182955	54	75	57	57	51	58	49	54	47	49	48	36	53
HS2-000020BNG	Lamp post on Donnington Road	523110, 184055	56	53	42	36	34	31	32	31	39	41	45	41	40
HS2-000020BNS	Lamp post on Tower Road by Willesden Jewish Cemetery	522196, 184448	40	36	29	31	22	24	20	23	27	34	39	No data	30
HS2-000020BPM	Lamp post along Gorefield Place near block of flats	525222, 183309	45	45	34	28	24	23	23	26	29	32	39	35	32

¹ Note: several diffusion tubes from the December 2019 batch were incorrectly prepared by the laboratory and could not be accurately analysed. Where this is the case, 'No data' is displayed.

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.