

October 2023

Air Quality and Dust Monitoring Monthly Report – October 2023 London Borough of Brent

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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 and dust monitoring undertaken in the London Borough of Brent (LBB) during September 2023 and October 2023 respectively.
- 1.1.2 Figure 1 in Appendix A presents the current worksites together with air quality and dust monitoring locations.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report available from <u>www.gov.uk/government/collections/monitoring-the-environmental-</u> <u>effects-of-hs2</u>, 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 worksites, as presented in Appendix A, Figure 1, include:

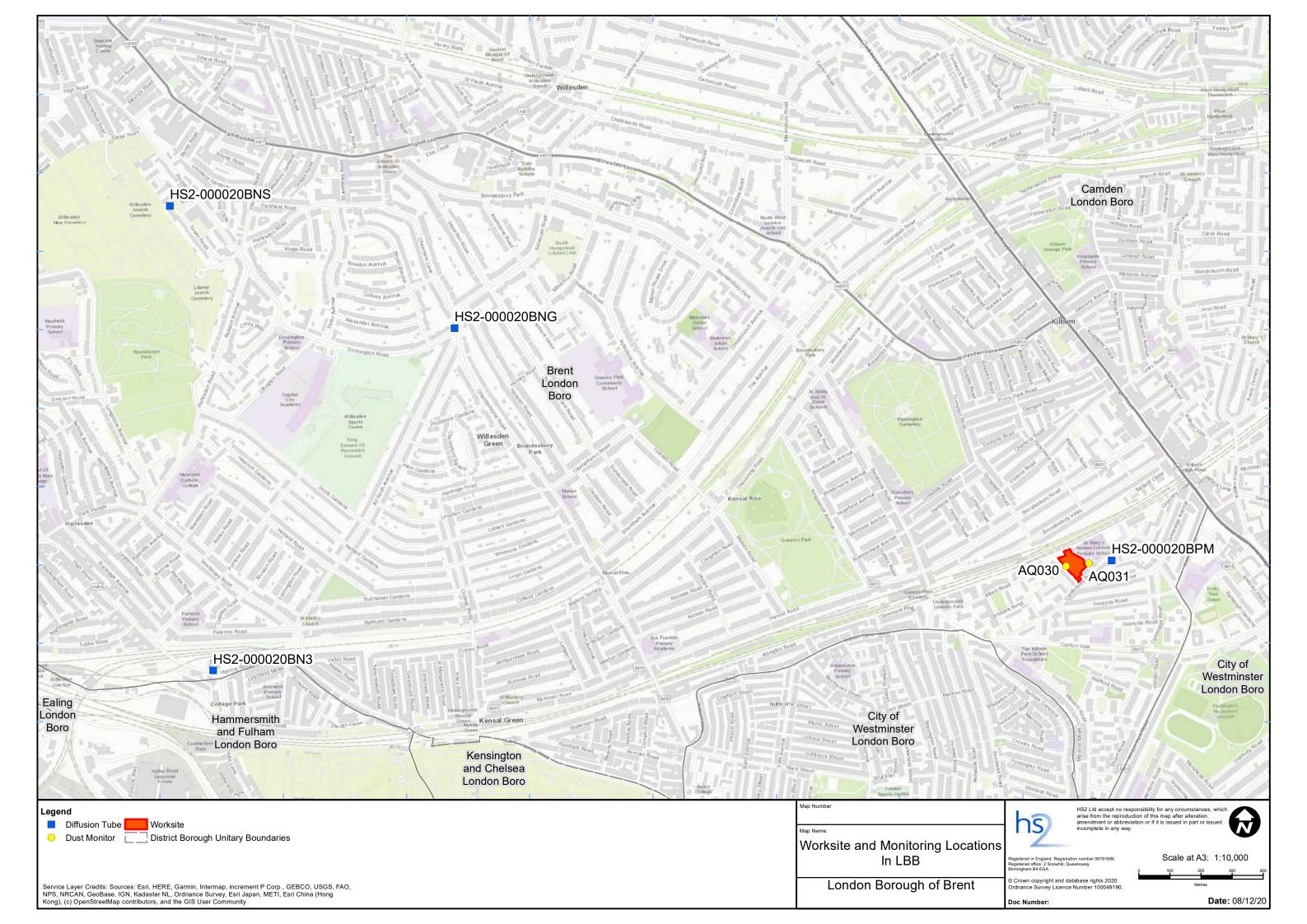
Canterbury Road Vent Shaft

- Canterbury Road Vent Shaft, concreting and materials management and ventilation shaft construction and lining.
- 1.1.5 Two (2) dust monitors are installed around this worksite, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, presented in Figure 2. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 μg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (October 2018)* has been applied.
- 1.1.8 No (0) dust trigger alerts were recorded during the monitoring period (October 2023).

- 1.1.9 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.
- 1.1.10 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.
- 1.1.11 NO₂ monitoring locations and results are presented in Appendix C, Table 2, together with the 2023 running mean.
- 1.1.12 There were no (0) complaints received during the reporting period (October 2023).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring Locations within the LBB



Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m³)	Minimum 1- hour PM ₁₀ concentration (µg/m³)	Maximum 1- hour PM ₁₀ concentration (µg/m ³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)	
AQ030	525093, 183264	Western Hoarding of Canterbury Road works site	М	Yes	Ν	7.8	0.9	33.2	0	100.0	
AQ031	525112, 183320	Eastern Hoarding of Canterbury Road works site	М	Ν	Ν	11.1	1.0	59.4	0	99.9	

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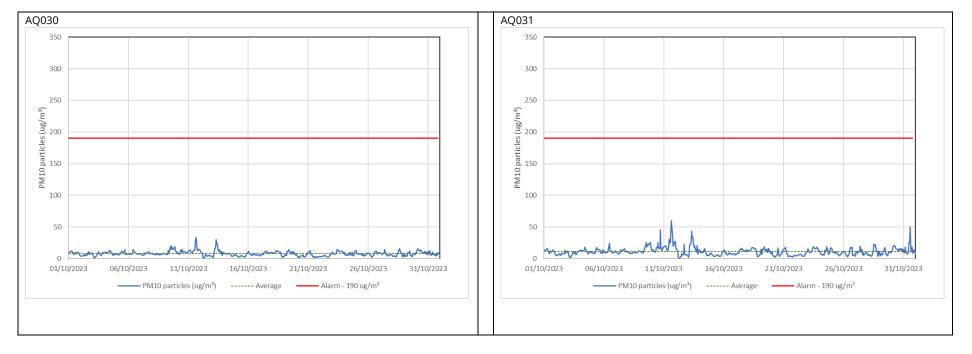


Figure 2: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors

Appendix C - Air Quality Monitoring Results

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2- 000020BN3	Sign post on High Street Harlesden	522335, 182955	53	54	43	47	55	41	34	37	49				46
HS2- 000020BNG	Lamp post on Donnington Road	523110, 184055	44	44	32	Tube Missin g	24	24	21	24	31				30
HS2- 000020BNS	Lamp post on Tower Road by Willesden Jewish Cemetery	522196, 184448	27	34	17	23	Tube Missin g	18	14	15	20				21
HS2- 000020BPM	Lamp post along Gorefield Place near block of flats	525222, 183309	36	37	22	19	18	19	16	19	24				23

Table 2: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2023 (µg/m³)

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.