

May 2023

Air Quality and Dust Monitoring Monthly Report – May 2023 London Borough of Hammersmith and Fulham



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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Air Quality and Dust Monitoring Summary Report, May 2023 London Borough of Hammersmith and Fulham

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 Hammersmith and Fulham (LBHF) during April 2023 and May 2023 respectively.
- 1.1.2 Figure 1 and Figure 2 in Appendix A indicate the current worksite 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 worksite, as presented in Appendix A, Figures 1 and 2, include:

Old Oak Common Depot

- General Site Concrete Works, Drainage and Kerb Installation;
- Station Box Concrete, D-Wall breakdown, steel fixing and excavation;
- UTPZ / CRL Retaining Wall RC works, Backfill, Concrete cutting, Black jacking and Formwork construction;
- Shared Accommodation Building Plank Installation;
- Site haul roads and public roads adjacent to site cleaning with a road sweeper;
- Great Western Main Line / Central Box Piling Platform works and demobilisation;
- OOCL Great Western Main Line / Removal of Wycombe Line Bridge; and
- Satellite Sites / Central Line east OOC Pile mat construction , Piling and Slit trench excavation.

Scheme 6

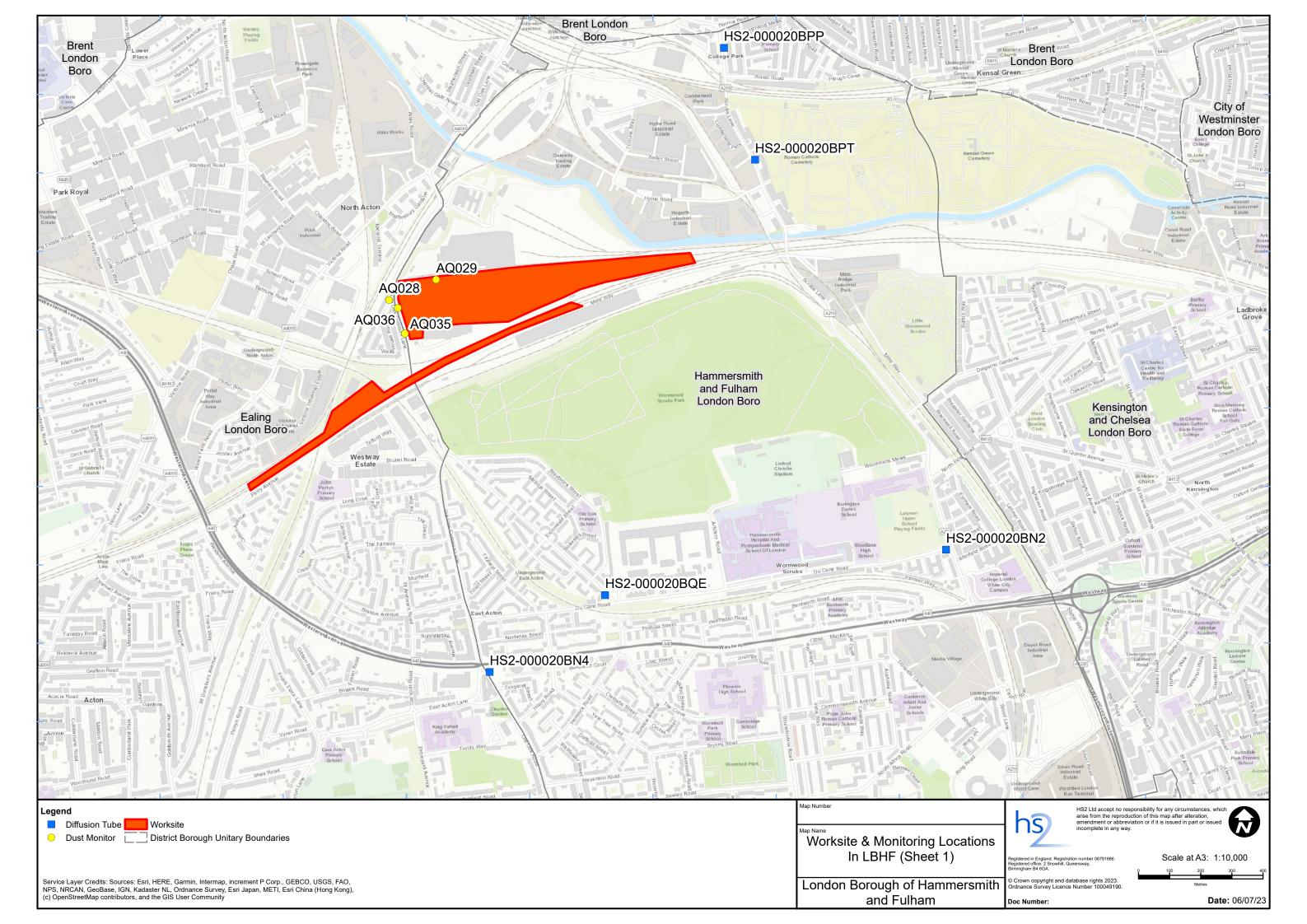
- Signalling and Telecommunication works;
- Civil works;
- Overhead line equipment works; and
- Electrification and plant works.
- 1.1.5 Four (4) dust monitors are installed around the worksite, where works are underway. This site returned a medium to high dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor in Figure 3. All continuous dust

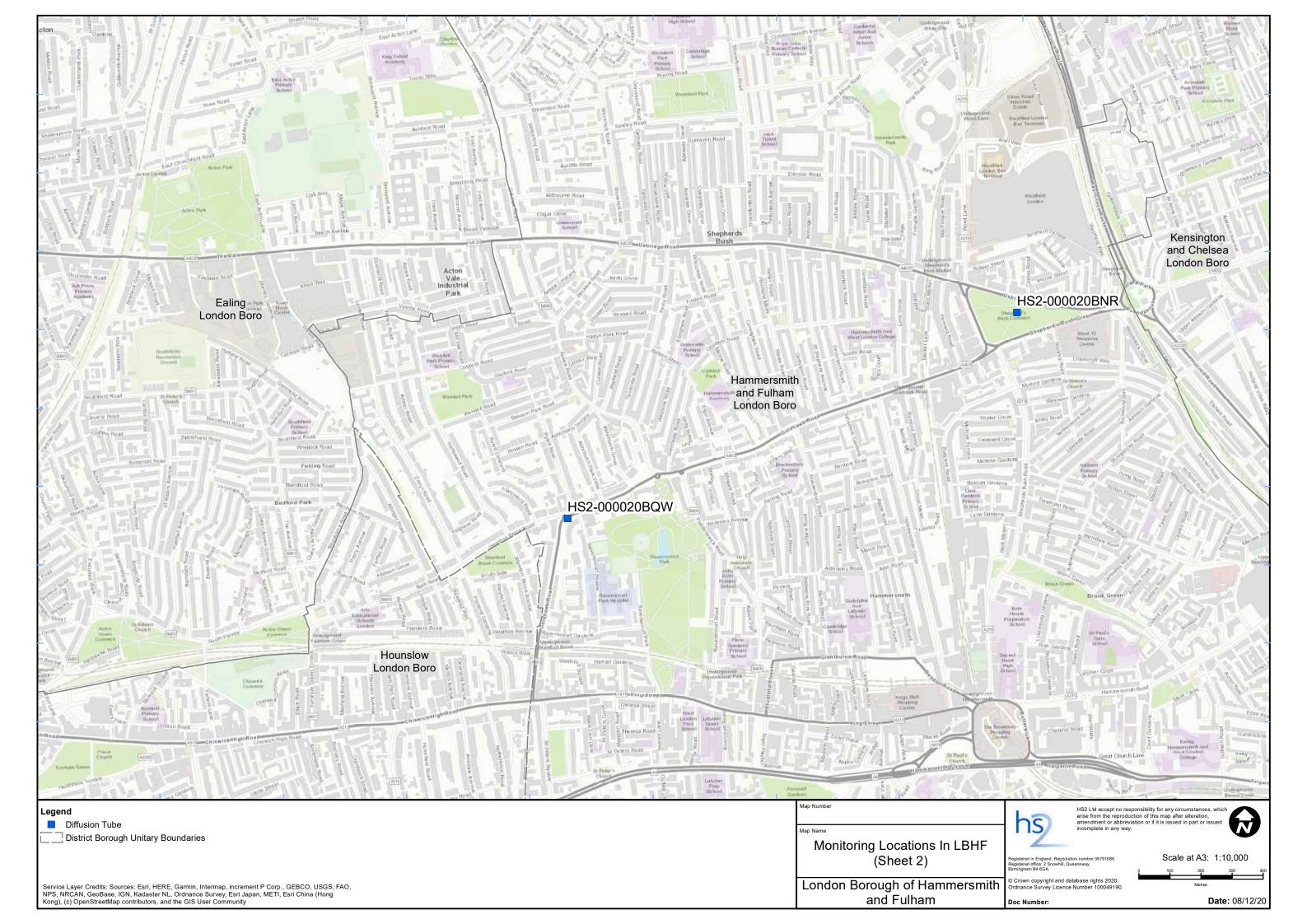
monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose 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 There were no (0) dust trigger alerts recorded during this monitoring period (May 2023).
- 1.1.9 Data capture was below 90% for AQ036 in May 2023 due to the monitor being removed to make way for planned works.
- 1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) is undertaken at seven (7) locations around highways within the LBHF as part of the management of air quality where significant effects June occur as a result of the scheme.
- 1.1.11 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.
- 1.1.12 NO₂ monitoring locations and results are presented in Appendix C, Table 2, together with the 2023 running mean.
- 1.1.13 No (0) complaints were received during the reporting period.

Appendix A – Worksites and Monitoring Locations

Figure 1 and 2: Worksites and monitoring locations within the LBHF





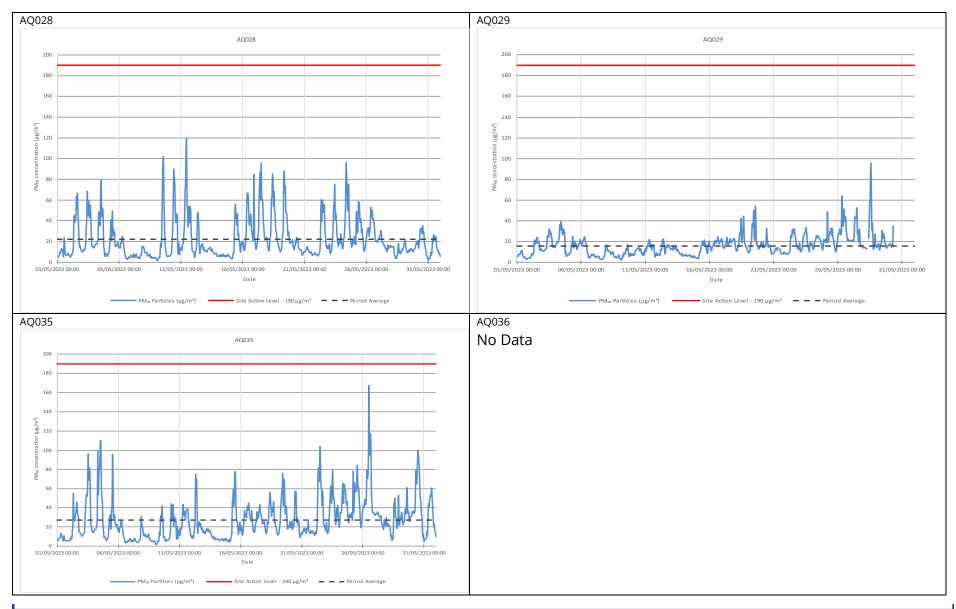
Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring locations and May 2023 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/m ³)	Maximum 1- hour PM ₁₀ concentration (µg/m³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ028	521302, 182067	Wells House Road	М	Yes	No	22.0	1.7	117.9	0	100.0
AQ029	521453, 182132	Old Oak Common	н	Yes	No	16.0	2.3	95.6	0	93.7
AQ035	521353, 181959	Old Oak Common	н	Yes	No	27.3	1.8	167.5	0	100.0
AQ036	521330, 182041	Old Oak Common	Н	No	No	-	-	-	-	0.0

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Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitors



Appendix C – Air Quality Monitoring Results

Monitoring Site Coordina Mean **Location description** Feb Nov Jan Mar Apr Mav lun Jul Aug Sep Oct Dec ID tes (X, Y) HS2-000020BN2 Lamp post on Du 523092. 42 45 21 37 36 181264 Cane Road HS2-000020BN4 End of cycle lane sign 521625. 50 49 22 46 42 on Old Oak Road 180871 HS2-000020BNR Lamp posts in 523481, Tube Shepherd's Bush 179871 43 45 37 42 Missing Common HS2-000020BPP 522378, Sign post on A219 Tube Scrubs Lane. South of 182877 37 46 38 40 Missing Harrow Road HS2-000020BPT Controlled Zone/Zone 522478, Ends road sign on 182517 Tube 47 44 34 42 A219 Scrubs Lane, Missing north of Hythe Road Lamp post next to No HS2-000020BQE 521996, 33 31 25 20 27 11 Wulfstan Street 181118 HS2-Lamp post on A402 522037, Tube Tube 45 41 43 Goldhawk Road 179209 000020BQW Missina Missina

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.