February 2022



Air Quality and Dust Monitoring Monthly Report - February 2022

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.

High Speed Two (HS2) Limited, Two Snowhill Snow Hill Queensway Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

A report prepared by EWCs and MWCCs on behalf of HS2 Ltd.

High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2021, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v2.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-governmentlicence/ version/2 **OGL** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: psi@nationalarchives.gsi.gov.uk. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



Printed in Great Britain on paper containing at least 75% recycled fibre.

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 January and February 2022 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 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 Construction works commenced in August 2020 and is expected to be completed by 2025. The current worksite, as presented in Appendix A, Figure 1 and Figure 2, includes:
 - Old Oak Common Depot and mobilisation and new site set up for the station works.
 - Permanent Accommodation Building fit out
 - Vegetation Strimming
 - Hex Depot building Slab Breakout / Material processing
 - Construction of temporary haul roads
 - Drainage installation
 - Piling and D-Wall activities East / Central Box
 - Capping Beam Construction West Box
 - Old Oak Common Lane boundary wall stabilisation Works
 - Conveyor steel erection
 - Asphalt and tarmac laying for Haul road
- 1.1.5 Four (4) dust monitors are installed around the worksite. This site returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, 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.

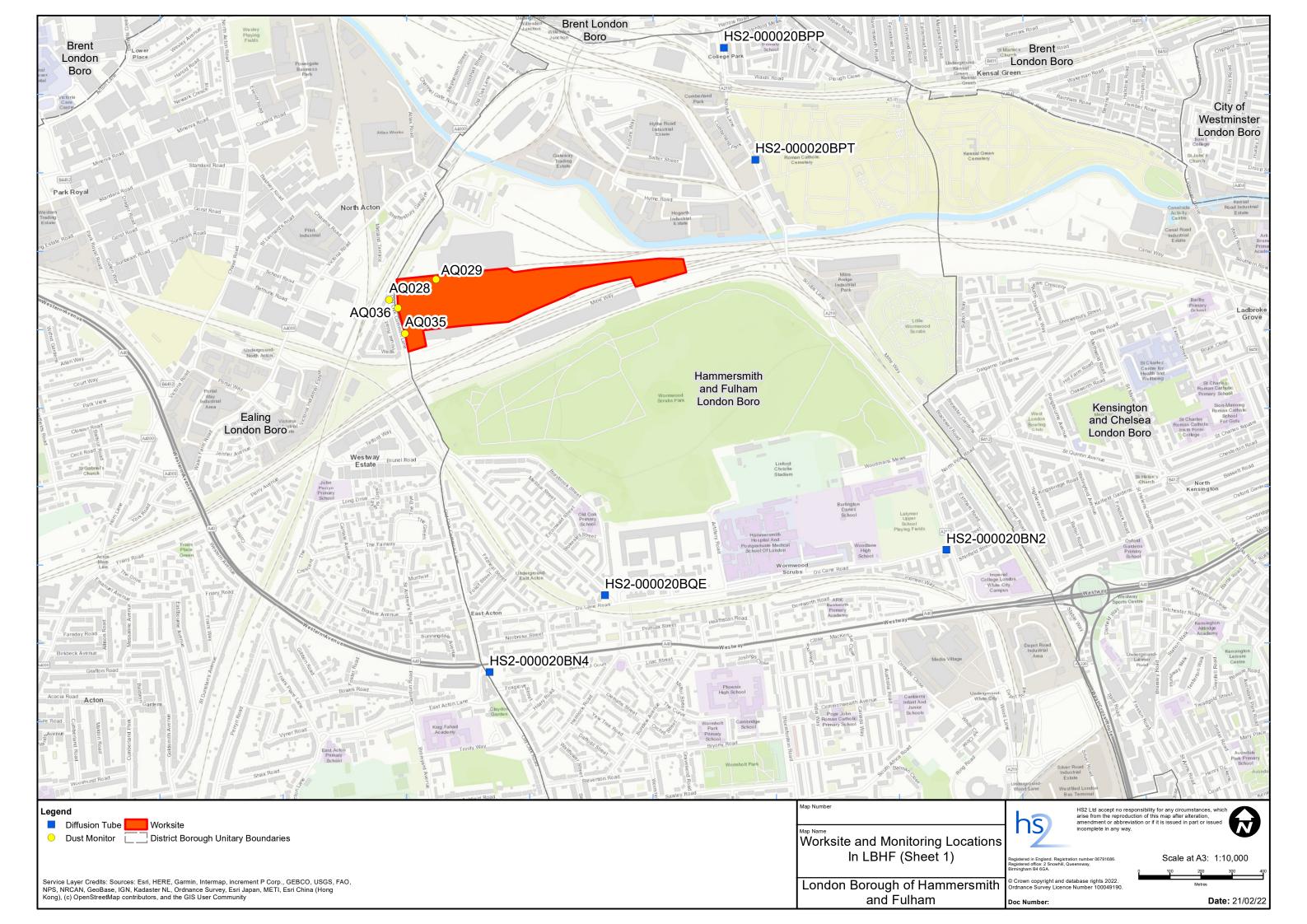
- 1.1.7 The trigger level for PM_{10} concentrations of 190 μ g/m³, over a 1-hour period, in accordance with the updated guidance document 'Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (October 2018)' has been applied.
- 1.1.8 No (0) dust trigger alerts were recorded during the monitoring period (February 2022).
- 1.1.9 Diffusion tube monitoring of Nitrogen Dioxide (NO_2) is undertaken at seven (7) locations around highways within the LBHF 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 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 NO_2 monitoring locations and results are presented in Appendix C, Table 3, together with the 2022 running mean.
- 1.1.12 Table 1 provides a summary of the complaint information related to dust or air quality received during the reporting period, together with the findings of any related investigations.

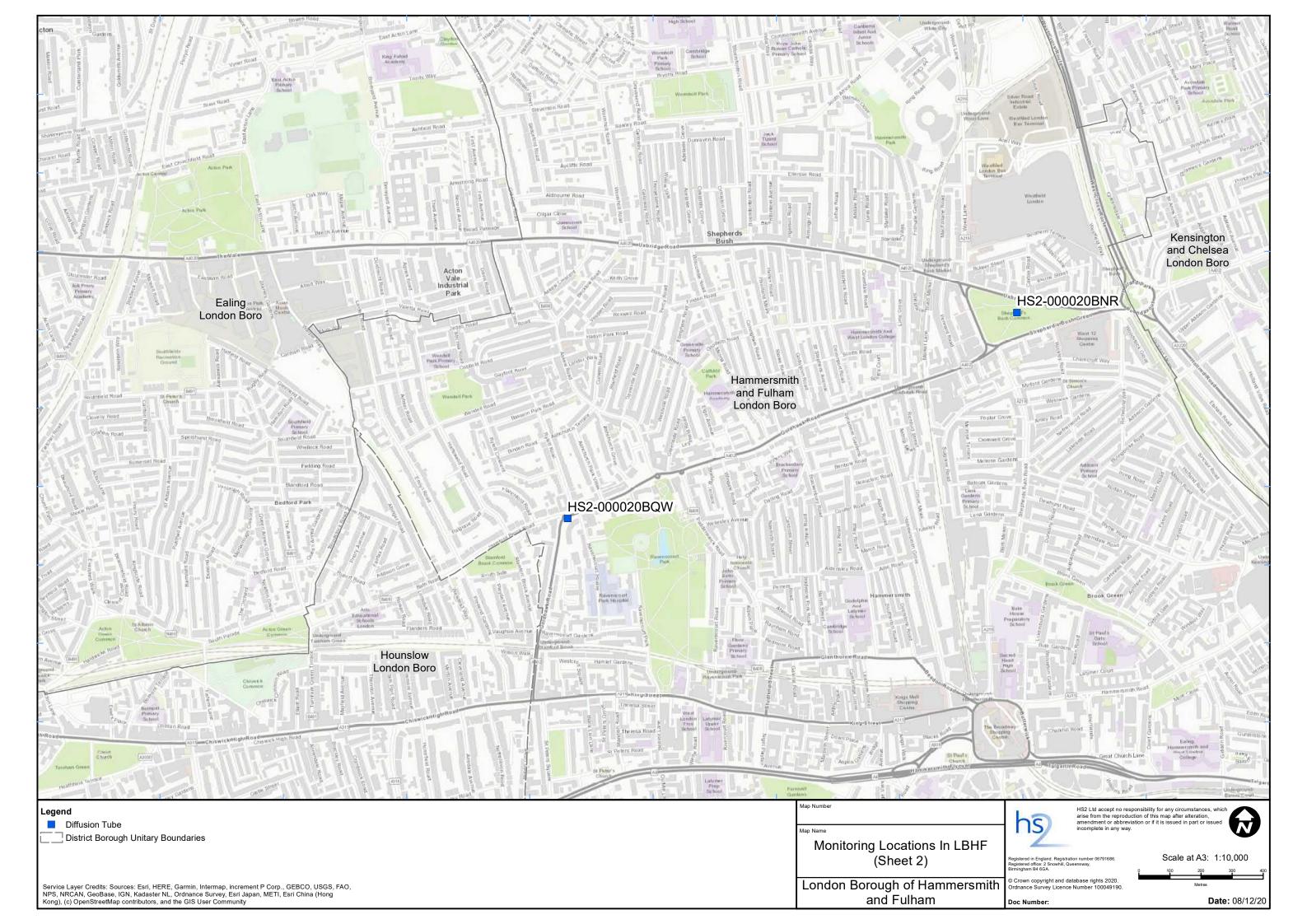
Table 1: Summary of complaints received during February 2022

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-22-43309-C	n/a	Level of fumes being released from generator on site.	The Generator is used to power emergency lighting, and to minimise the use of this generator a battery pack has been installed. The generator is still required to charge the battery pack and once the battery pack is fully charged it powers the security system and lighting. The stakeholder has been advised that this is the most sustainable option to reduce carbon emissions and noise/AQ impacts. In addition, an acoustic enclosure is placed around the generator to further reduce noise and smell.

Appendix A – Worksites and Monitoring Locations

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





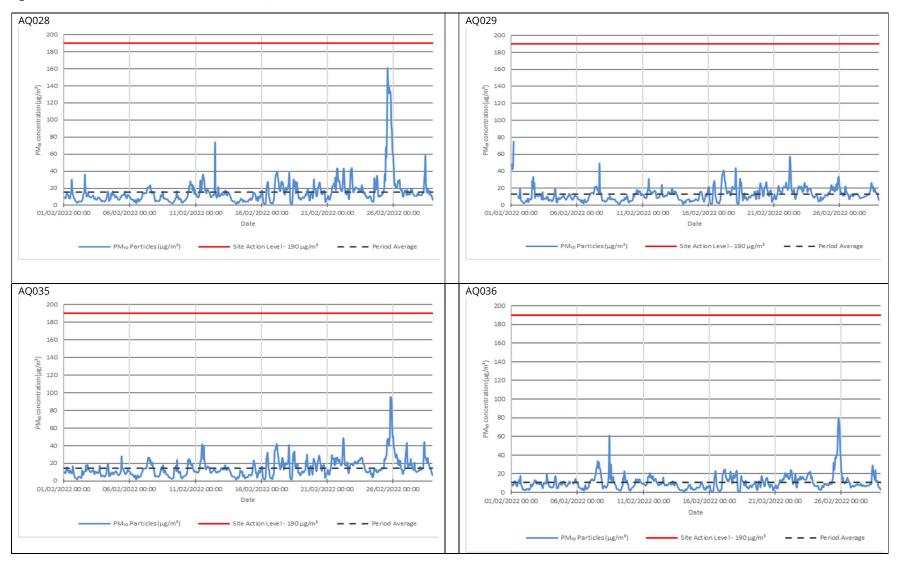
Appendix B – Dust Monitoring Results

Table 2 Dust Monitoring locations and February 2022 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/m³)	Number of 1- hour periods exceeding trigger level of 190 µg/m³	Data capture (%)
AQ028	521302, 182067	Wells House Road	М	Yes	N	15.3	1.0	159.3	0	100.0
AQ029	521453, 182132	Old Oak Common	Н	Yes	N	12.9	1.3	75.2	0	99.0
AQ035	521353, 181959	Old Oak Common	Н	Yes	N	14.5	1.2	95.3	0	100.0
AQ036	521330, 182041	Old Oak Common	Н	Yes	N	10.6	0.5	78.6	0	99.4

Page 6

Figure 3: Construction dust 1-hour mean indicative PM_{10} concentration for dust monitors



Appendix C - Air Quality Monitoring Results

Table 3: NO₂ monitoring locations around highways NO₂ concentrations and monthly monitoring results with running mean for 2022 (µg/m³)

Monitoring Site	Location description	Coordinate s (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean 1
HS2-000020BN2	Lamp post on Du Cane Road	523092, 181264	55												55
HS2-000020BN4	End of cycle lane sign on Old Oak Road	521625, 180871	55												55
HS2-000020BNR	Lamp posts in Shepherd's Bush Common	523481, 179871	48												48
HS2-000020BPP	Sign post on A219 Scrubs Lane, South of Harrow Road	522378, 182877	63												63
HS2-000020BPT	Controlled Zone/Zone Ends road sign on A219 Scrubs Lane, north of Hythe Road	522478, 182517	61												61
HS2-000020BQE	Lamp post next to No 11 Wulfstan Street	521996, 181118	44												44
HS2- 000020BQW	Lamp post on A402 Goldhawk Road	522037, 179209	59												59

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.