March 2021



Air Quality and Dust Monitoring Monthly Report - March 2021

London Borough of Hammersmith and Fulham



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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 Hammersmith and Fulham (LBHF) during February and March 2021 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 The current phase of works commenced within the LBHF in August 2020 and is expected to be completed by 2025. The current worksite, as presented in Appendix A, Figure 1, includes:
 - Old Oak Common Depot and mobilisation and new site set up for the station works;
 - Site set-up;
 - Pile mat construction;
 - Haul road construction;
 - Auger drilling Old Oak Common Lane Retaining wall;
 - Tree felling and vegetation Clearance Old Oak Common Lane and Wormwood Scrubs;
 - Laying track mats on Wormwood Scrubs;
 - Pile probing works for sheet piling;
 - Construction of temporary accommodation block;
 - Sheet piling;
 - Installation of 225 mm water main; and
 - Dewatering.
- 1.1.5 Four (4) dust monitors are installed around the worksite. This site returned a high 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.

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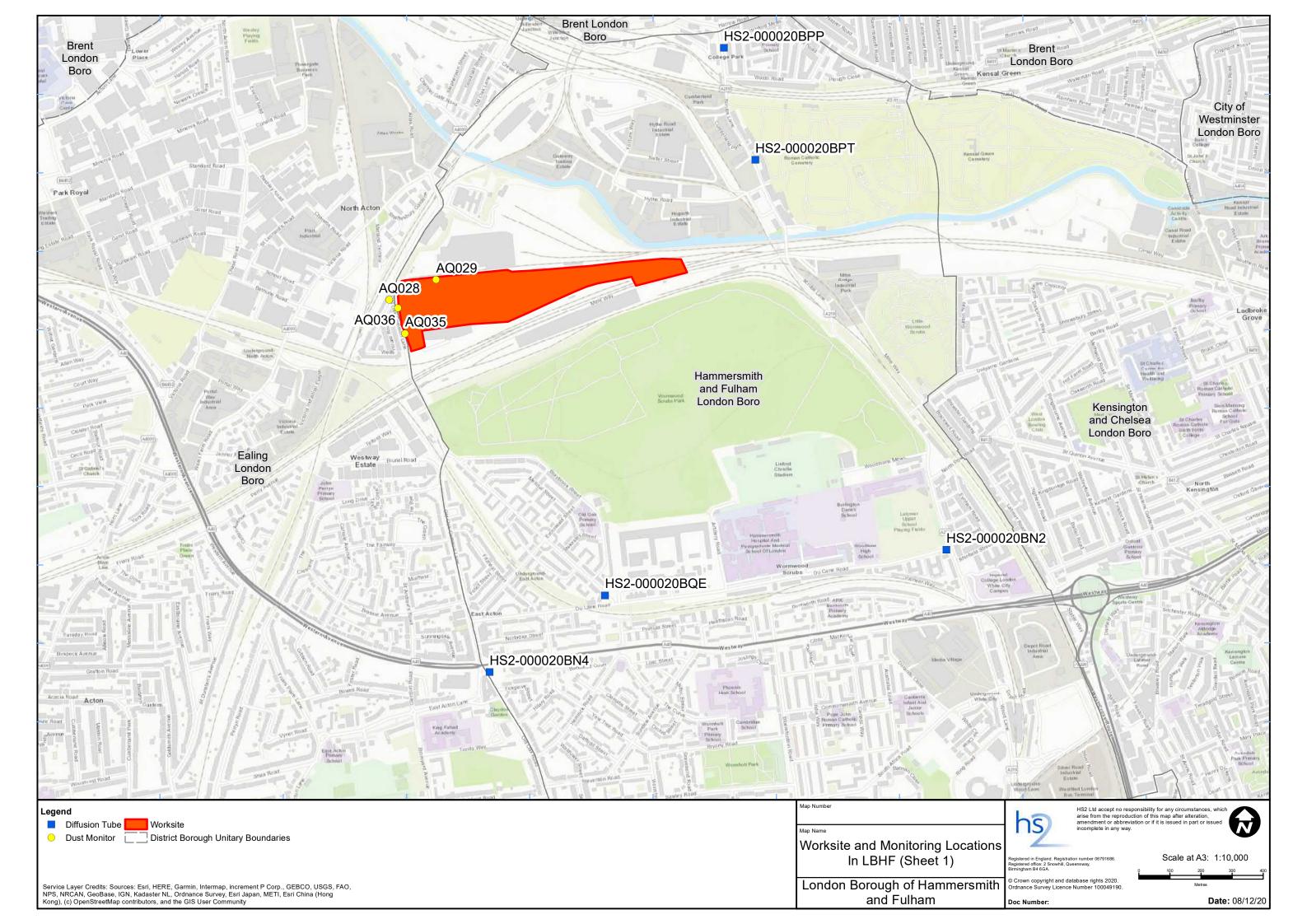
- 1.1.7 The trigger level for PM_{10} concentrations of 190 μ g/m³, over a 1-hour period, in accordance with the updated guidance document 'Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (October 2018)' has been applied.
- 1.1.8 There were no (0) dust trigger alerts recorded during this monitoring period (March 2021).
- 1.1.9 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 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 NO₂ monitoring locations and results are presented in Appendix C, Table 3, together with the 2021 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 (March 2021), together with the findings of any related investigations.

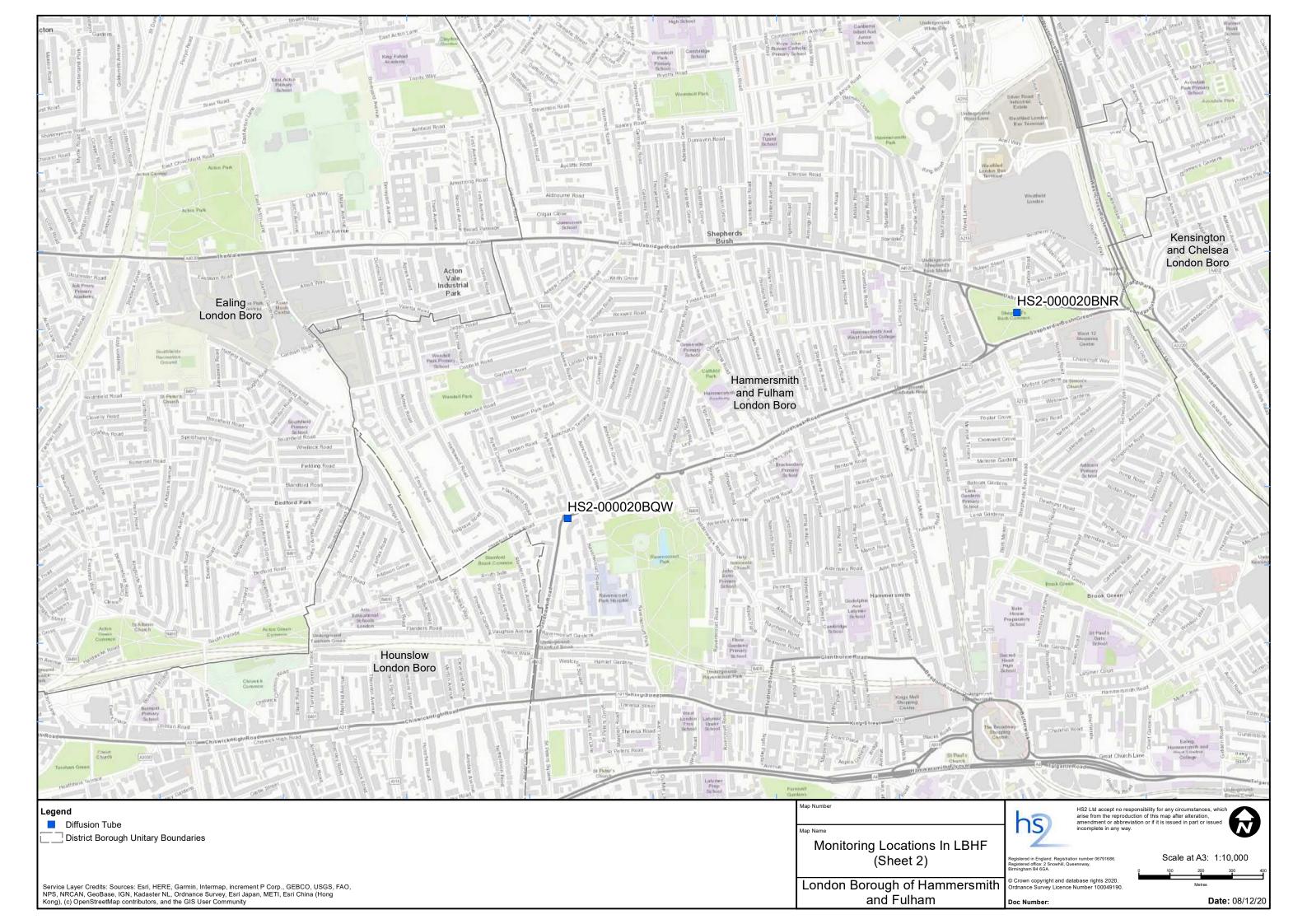
Table 1 Summary of complaints received during March 2021 in LBHF

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation						
HS2-21-56462-E	Wormwood Scrubs (complainant did not provide their location)	Resident complained about dust in the area, air pollution, temporary traffic management and works on Wormwood scrubs.	Insufficient details about the issues in the complaint has meant further investigation could not be carried out. A response was sent to the resident providing information regarding the measures taken on-site to minimise poor air quality.						

Appendix A – Worksites and Monitoring Locations

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



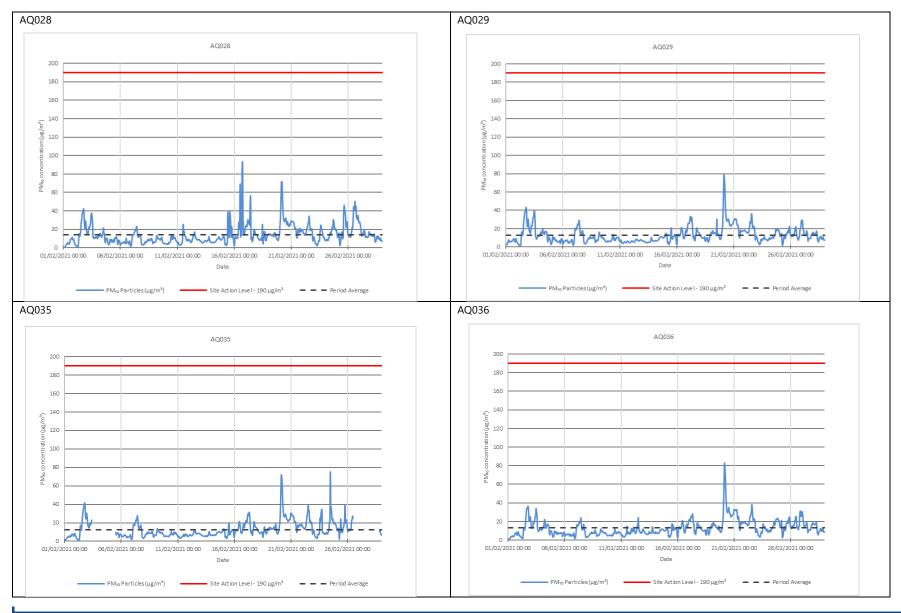


Appendix B – Dust Monitoring Results

Table 2: Dust Monitoring locations and March 2021 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	Н	Yes	N	16.7	0.5	96.1	0	100.0
AQ029	521453, 182132	Old Oak Common	Н	Yes	N	14.4	1.0	69.1	0	100.0
AQ035	521353, 181959	Old Oak Common	Н	Yes	N	16.4	0.5	184.9	0	100.0
AQ036	521330, 182041	Old Oak Common	Н	Yes	N	15.9	0.6	87.4	0	100.0

Figure 3: Construction dust 1-hour mean indicative PM₁₀ 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 2021 (µg/m³)

Monitoring Site	Location description	Coordinates (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	52	49											50
HS2-000020BN4	End of cycle lane sign on Old Oak Road	521625, 180871	55	49											52
HS2-000020BNR	Lamp posts in Shepherd's Bush Common	523481, 179871	42	39											40
HS2-000020BPP	Sign post on A219 Scrubs Lane, South of Harrow Road	522378, 182877	48	52											50
HS2-000020BPT	Controlled Zone/Zone Ends road sign on A219 Scrubs Lane, north of Hythe Road	522478, 182517	52	52											52
HS2-000020BQE	Lamp post next to No 11 Wulfstan Street	521996, 181118	38	33											36
HS2-000020BQW	Lamp post on A402 Goldhawk Road	522037, 179209	44	44											44

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.