

## **Air Quality and Dust Monitoring Monthly Report – February 2019**

**London Borough of Hammersmith and  
Fulham**



**SKANSKA**



## Department for Transport

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

Telephone: 08081 434 434

General email enquiries: [HS2enquiries@hs2.org.uk](mailto:HS2enquiries@hs2.org.uk)

Website: [www.gov.uk/hs2](http://www.gov.uk/hs2)

A report prepared by Costain Skanska on behalf of HS2 Ltd.

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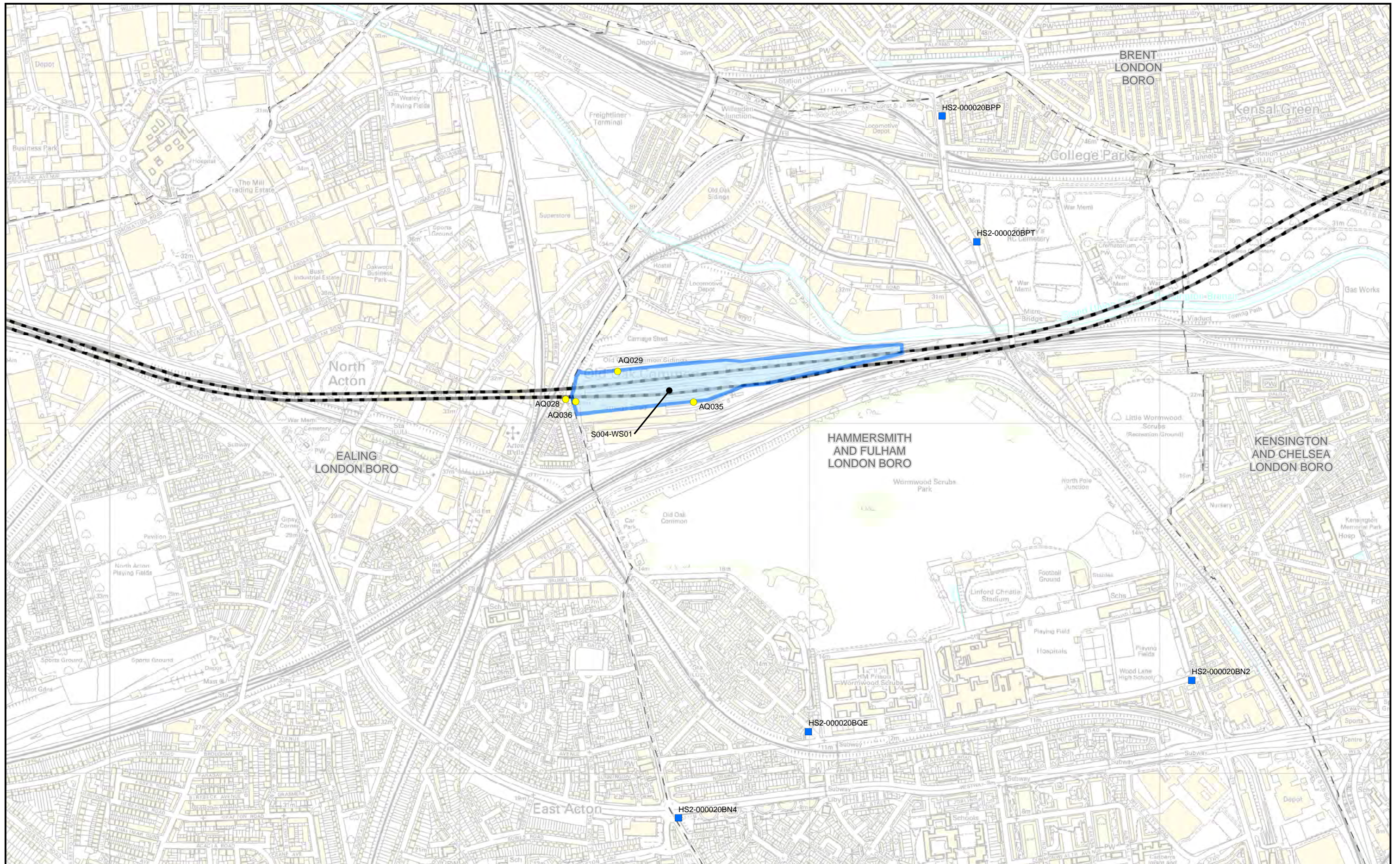
# Monthly Summary

- 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 Hammersmith and Fulham (LBHF) during January 2019 and February 2019 respectively.
- 1.1.2 Figure 1 and Figure 2 in Appendix A indicate the current work sites 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](http://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 during May 2018, and are expected to be completed by July 2019. The current worksite, as presented in Appendix A, Figure 1, includes:
- Demolition and groundworks at Old Oak Common Depot, worksite ref. S004-WS01.
- 1.1.5 Four (4) dust monitors were installed around the worksite, where pre-demolition works are underway. This site returned a 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.
- 1.1.7 There were five (5) exceedances of the dust trigger level during the month of February 2019. All other results were in line with the expected ranges. Exceedances are presented in Appendix B, Table 2.
- 1.1.8 Diffusion tube monitoring of Nitrogen Dioxide (NO<sub>2</sub>) was undertaken at seven (7) locations in January 2019, around highways within the LBHF as part of the management of air quality where significant effects may occur as a result the scheme.
- 1.1.9 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.
- 1.1.10 NO<sub>2</sub> monitoring locations and results are presented in Appendix C, Table 3, together with the 2019 running mean.
- 1.1.11 There were no complaints received, relating to dust or air quality, during this monitoring period.

# Appendix A – Worksites and Monitoring Locations

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





- Legend**
- Route in tunnel
  - Route on surface
  - Dust monitoring location
  - Diffusion tube monitoring location
  - Old Oak Common worksite

Figure Number

Figure Name  
**Worksites and Monitoring locations in LBHF (sheet 1)**

London Borough of Hammersmith and Fulham

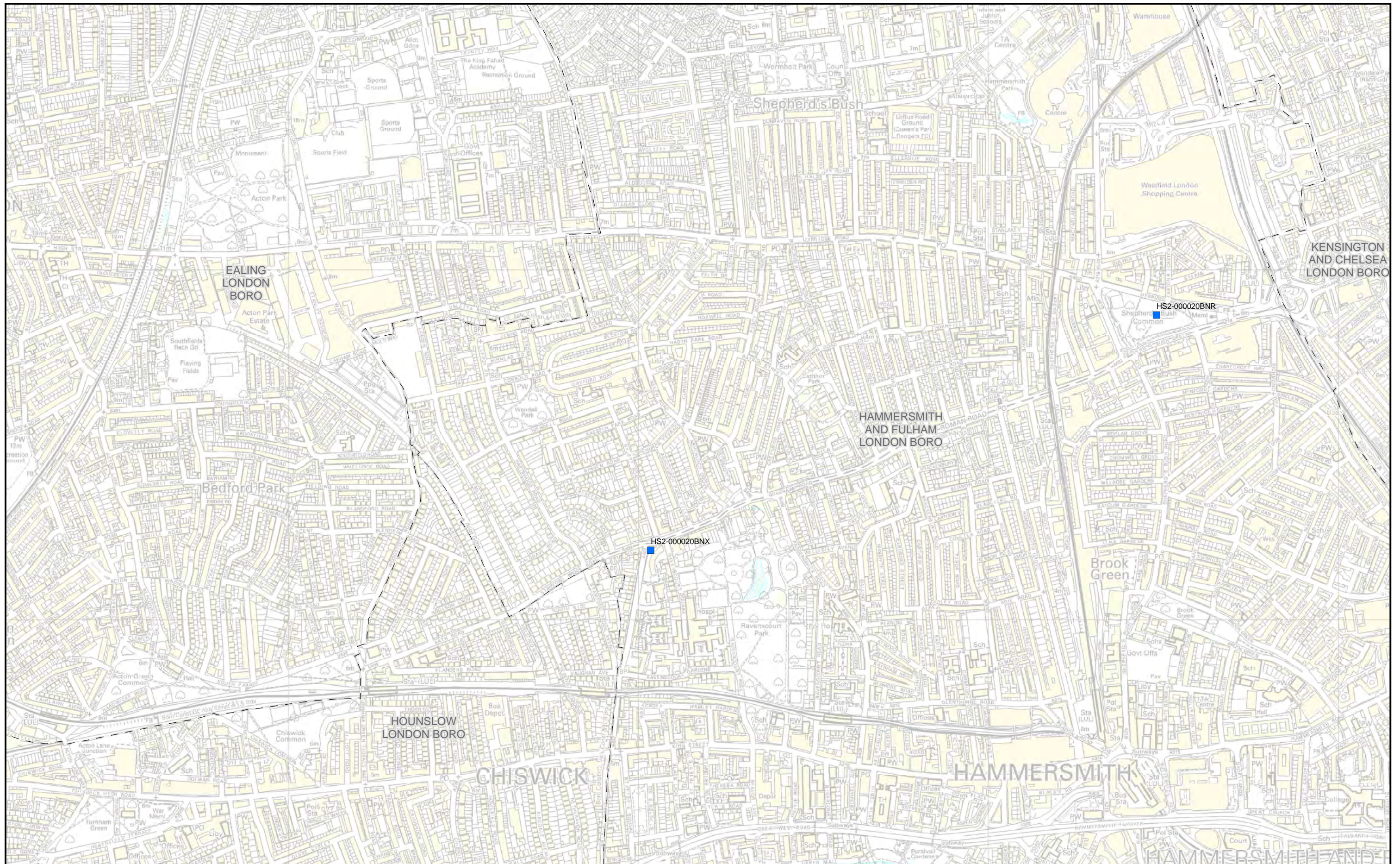
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- Legend**
-  Route in tunnel
  -  Route on surface
  -  Diffusion tube monitoring location

Figure Number

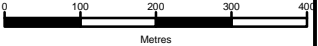
Figure Name  
**Worksites and Monitoring locations in LBHF (sheet 2)**

London Borough of Hammersmith and Fulham

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## Appendix B – Dust Monitoring Results

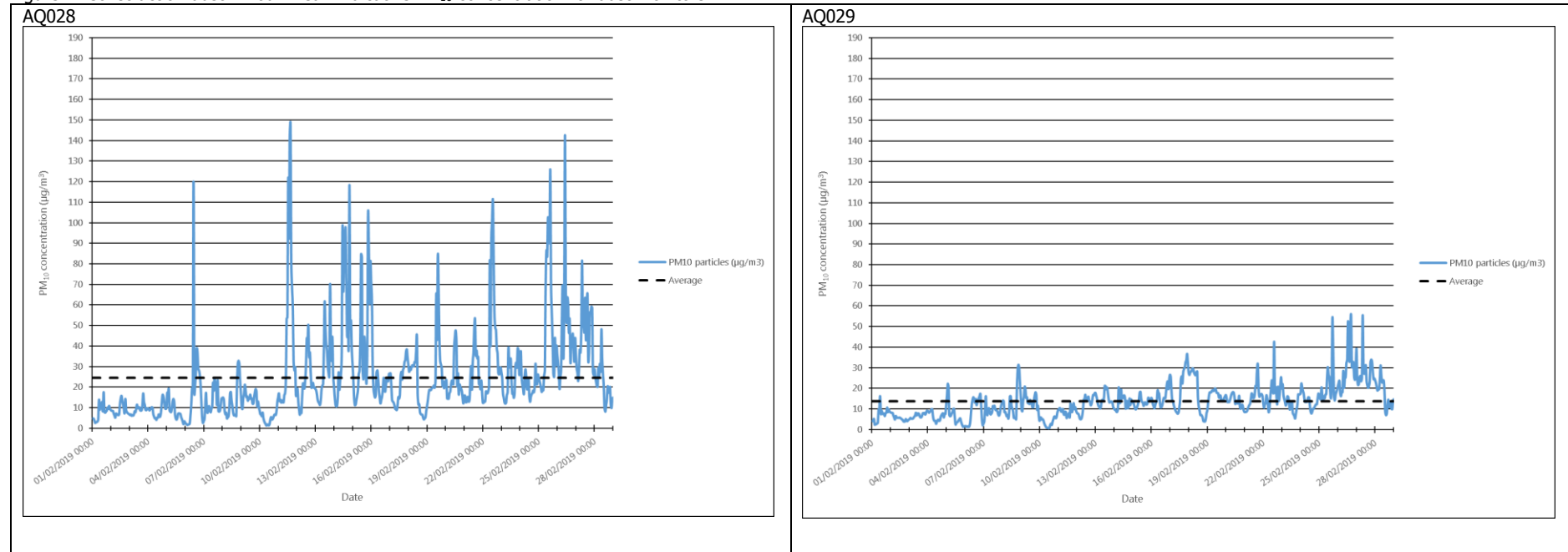
Table 1: Dust monitoring locations and February 2019 Results

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 <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1-hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	1-hour data capture (%)
AQ028	521302, 182067	Wells House Road	H	Yes	N	24.5	1.2	148.2	0	100.0
AQ029	521451, 182148	Old Oak Common	H	Yes	N	13.7	0.6	55.4	0	100.0
AQ035	521668, 182060	Old Oak Common	H	Yes	N	55.3	0.5	6526.3	5	85.3
AQ036	521331, 182061	Old Oak Common	H	Yes	N	18.4	0.9	114.7	0	100.0

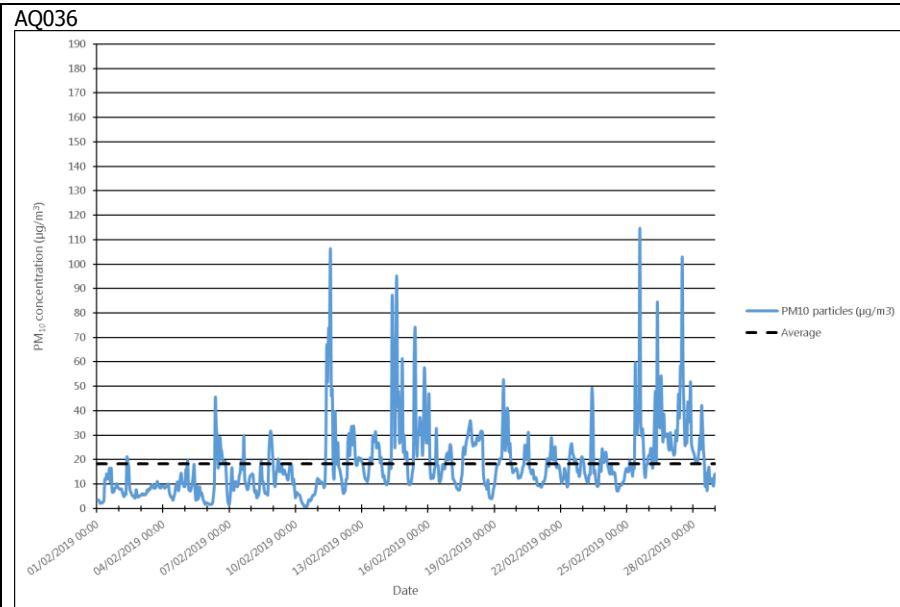
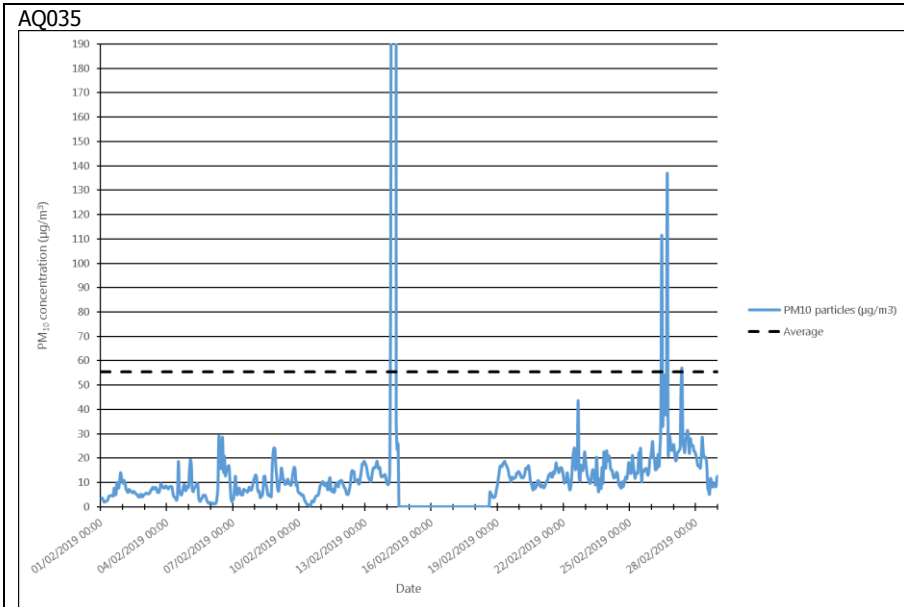
Table 2 : Summary of exceedances of trigger level in February 2019

Period exceeding trigger level	Worksite reference	Monitoring site ID	Complaint reference number (if applicable)	Reason	Resolution
14/02/2019 04:01 -14/02/2019 09:00 (x5 triggers)	S004-WS01	AQ035	n/a	Triggers received were caused by a power failure to the monitor on the 14 <sup>th</sup> of February leading to 'false' readings in the absence of the pump, heater or modem being operational.	Power supply subsequently restored after the weekend.

Figure 2: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for dust monitors









## Appendix C – Air Quality Monitoring Results

Table 3: NO<sub>2</sub> monitoring locations around highways NO<sub>2</sub> concentrations and monthly monitoring results with running mean for 2019 (µg/m<sup>3</sup>)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>1</sup>
HS2-000020BN2	Lamp post on Du Cane Road	523092, 181264	53												53
HS2-000020BN4	End of cycle lane sign on Old Oak Road	521625, 180871	52												52
HS2-000020BNR	Lamp posts in Shepherd's Bush Common	523481, 179871	52												52
HS2-000020BNX	Signpost on A402 Goldhawk Road	522035, 179199	48												48
HS2-000020BPP	Sign post on A219 Scrubs Lane, South of Harrow Road	522378, 182877	60												60
HS2-000020BPT	Controlled Zone/Zone Ends road sign on A219 Scrubs Lane, north of Hythe Road	522478, 182517	49												49
HS2-000020BQE	Lamp post next to No 11 Wulfstan Street	521996, 181118	17												17

<sup>1</sup> 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.