

Air Quality and Dust Monitoring Monthly Report – December 2018

London Borough of Ealing



COSTAIN SKANSKA



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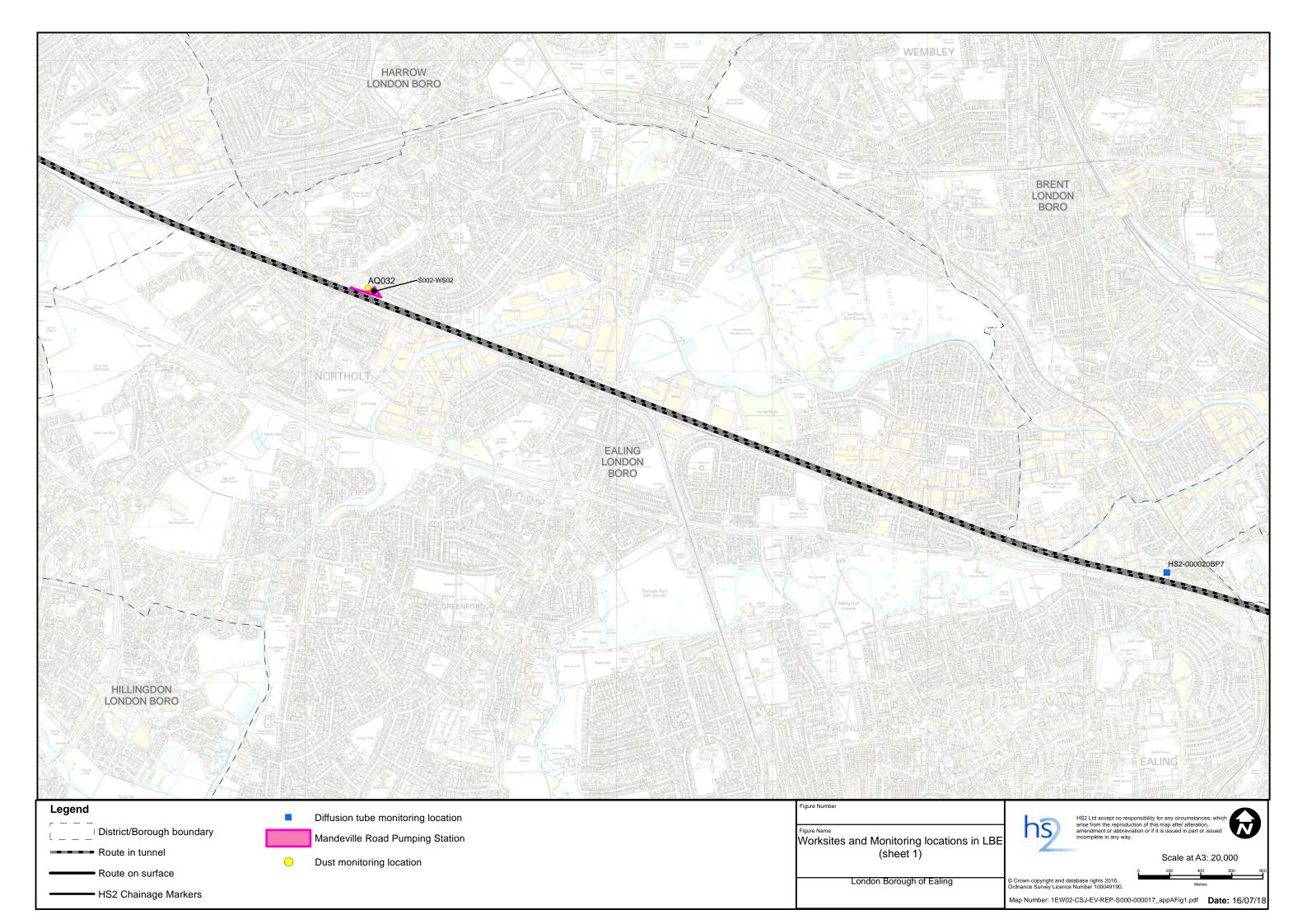
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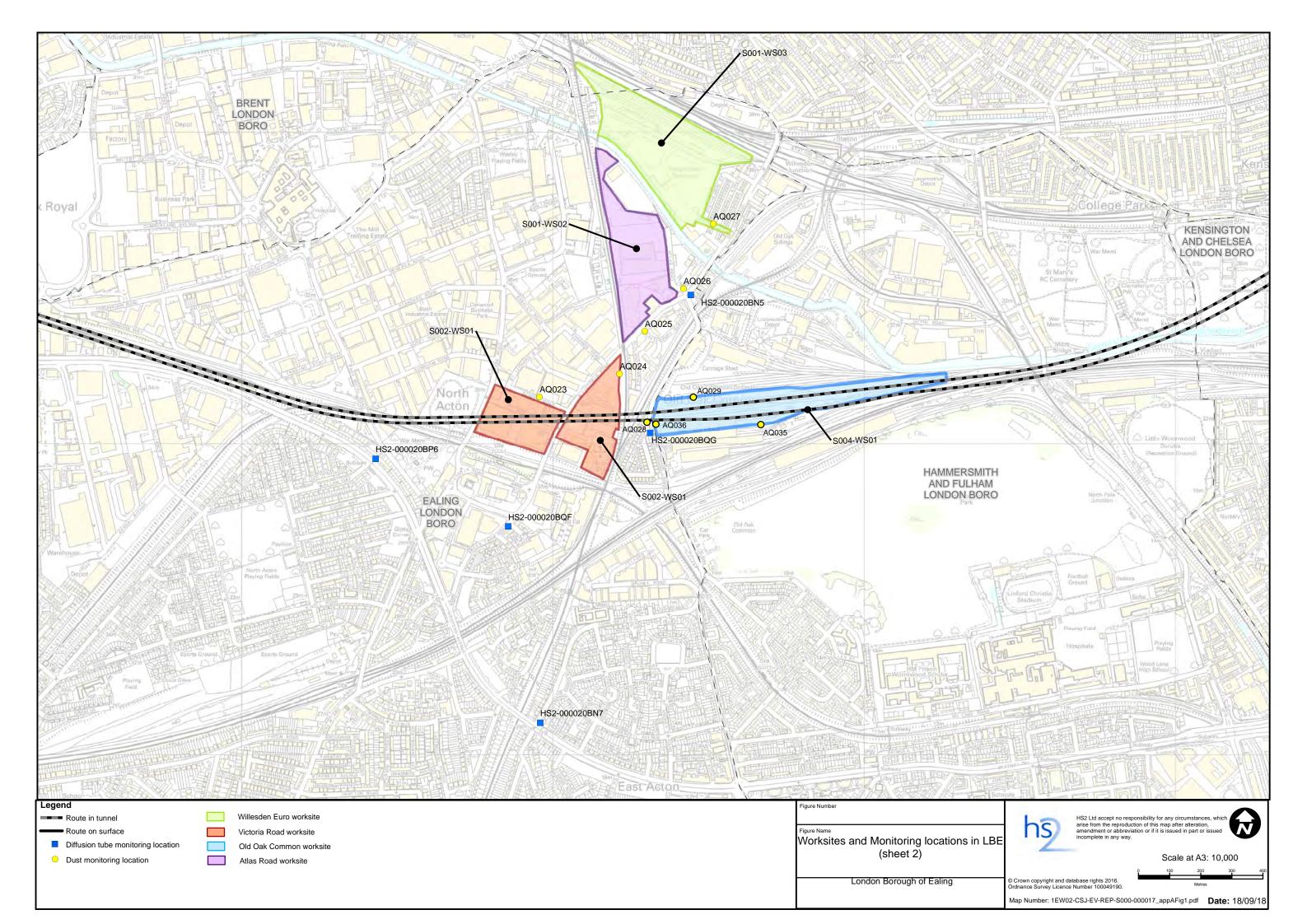
Monthly Summary

- 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 Ealing (LBE) during November and December 2018 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, 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 LBE during April 2018, and are expected to be completed by July 2019. The current worksites, as presented in Appendix A, Figure 1 and Figure 2, include:
 - Demolition of buildings on Victoria Road, worksite ref. S002-WS01.
 - Securing of and pre-demolition surveys of site on Atlas Road, worksite ref. S001-WS02.
 - Demolition works and continued pre-demolition surveys of site at Willesden Euro Terminal, worksite ref. S001-WS03.
 - Demolition and groundworks at Old Oak Common Depot (located in the London Borough of Hammersmith and Fulham), worksite ref. S004-WS01.
 - Future works site at Mandeville Road Pumping Station, worksite ref. S002-WS02.
- 1.1.5 Seven (7) dust monitors were installed around worksites, where pre-demolition works are underway. These sites returned a medium or 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.
- 1.1.7 There were no exceedences of the dust trigger level recorded during the month of December 2018.
- 1.1.8 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) was undertaken at six (6) locations in November 2018, around highways within the LBE 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 were 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 NO₂ monitoring locations and results are presented in Appendix C, Table 2, together with the 2018 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

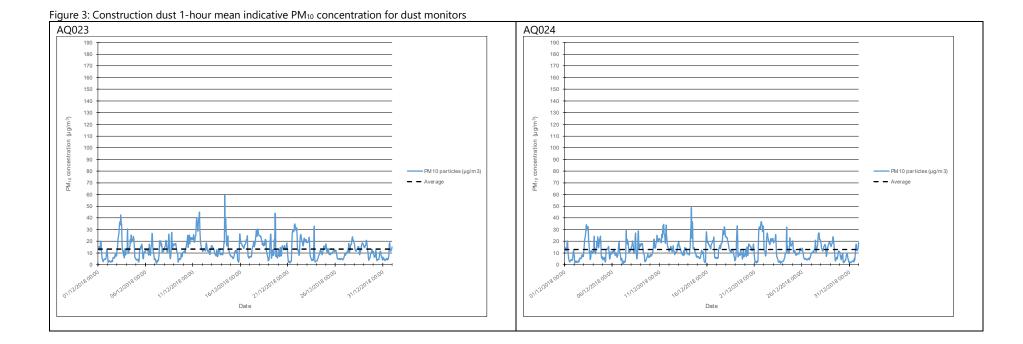


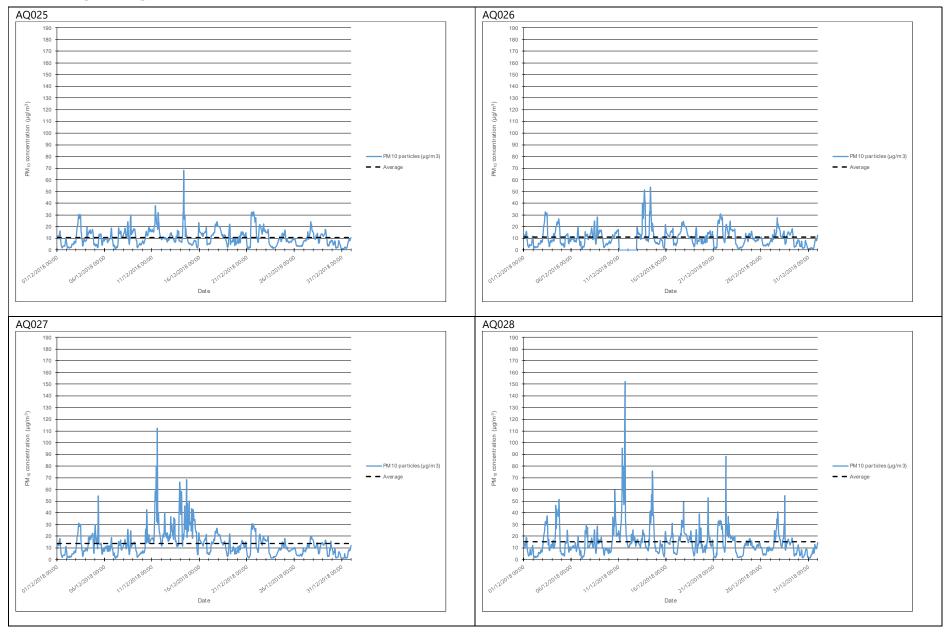


Appendix B – Dust Monitoring Results

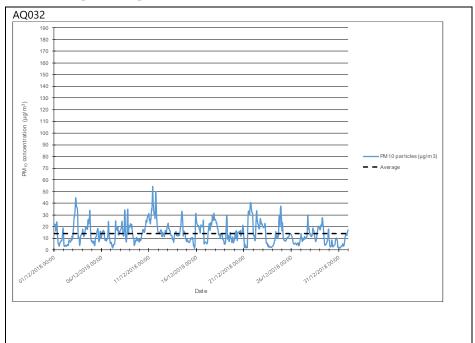
Table 1: Dust monitoring locations and December 2018 Results

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 t (μg/m³) Minimum 1 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	1-hour data capture (%)
AQ023	520956, 182149	School Road	Н	Yes	N	13.3	1.2	59.9	0	100.0
AQ024	521214, 182223	Braitrim House	Н	Yes	N	12.8	1.1	48.7	0	100.0
AQ025	521295, 182360	Victoria Road	Н	Yes	N	10.8	1.0	68.2	0	100.0
AQ026	521419, 182497	Old Oak Lane	Н	Yes	N	11.0	1.0	53.8	0	94.0
AQ027	521515, 182706	Stephenson Street	Н	Yes	N	13.7	0.9	112.3	0	100.0
AQ028	521302, 182067	Wells House Road	Н	Yes	Υ	15.1	1.1	149.9	0	100.0
AQ032	513402, 184536	Badminton Close	М	Yes	N	14.2	1.5	54.4	0	100.0





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Appendix C – Air Quality Monitoring Results

Table 2: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2018 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2- 000020BN5	Sign post on Victoria Road	521443, 182477	57	54	67	51	55	50	58	46	49	56	61		55
HS2- 000020BN7	The Approach street sign	520959, 181102	77	57	56	65	52	40	65	60	61	60	55		59
HS2- 000020BQF	Conway Drive sign	520856, 181733	71	63	70	63	60	60	67	57	52	61	59		62
HS2- 000020BQG	Lamp post outside No 1. Wells House Road on Old Oak Common Lane	521312, 182033	75	76	57	70	58	48	64	49	57	57	62		61
HS2- 000020BP6	Triplicate site next to the Ealing, Western Avenue Acton roadside automatic monitoring station	520430, 181950	58	58	52	54	62	51	76	60	Tubes missing	58	61		59
HS2- 000020BP7	Triplicate site next to the Ealing, Hangar Lane Gyratory roadside automatic monitoring station	518537, 182708	76	68	63	72	75	58	99	82	78	68	75		74

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.