

Air Quality and Dust Monitoring Monthly Report – March 2019

London Borough of Camden



SKANSKA



Department for Transport

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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Monthly Summary

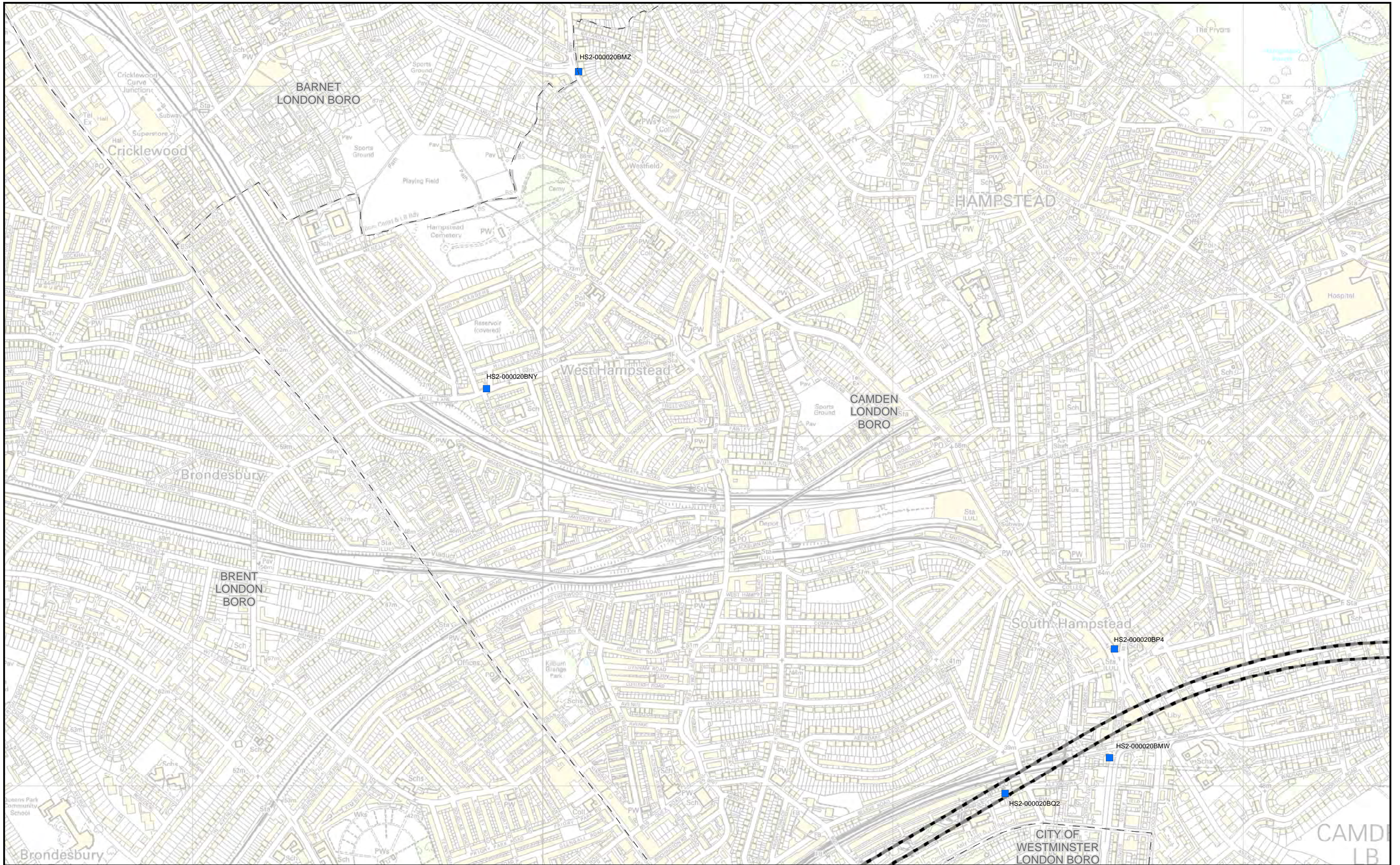
- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality and dust monitoring undertaken in the London Borough of Camden (LBC) during February 2019 and March 2019 respectively.
- 1.1.2 Figure 1 to Figure 3 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 LBC during December 2017 and are expected to be completed by July 2019. The current worksites, include:
- Demolition of former accommodation block and train maintenance shed, at the DB Cargo shed is now complete. Site office and welfare on the adjacent former Addison Lee compound on Granby Terrace, worksite ref. S001-WS01.
 - Archaeological dig at St James' Gardens and construction of an enclosure over the entire worksite; worksite ref. S003-WS01.
 - Demolition at:
 - The IBIS Hotel, 3 Cardington Street, S003-WS05;
 - National Temperance Hospital, Insull Wing, worksite ref. S003-WS02; and
 - 1-3 Cobourg Street, worksite ref. S003-WS05
 - 132 – 140 Hampstead Road and Petrol Station, worksite ref. S001-WS02; and
 - Thistle Hotel, Cardington Street, worksite ref. S003-WS04.
 - Securing of site and pre-demolition surveys at the Regents Park Estate worksite ref. S001-WS07.
 - Pre-demolition surveys and internal soft-strip at:
 - Walkden House, 67-75 & 77-79 Euston Street, worksite ref. S003-WS03;
 - Euston Street, Melton Street, Drummond Street block, worksite ref. S003-WS07; and
 - One Euston Square, 40 Melton Street and Grant Thornton House, 22 Melton Street, worksite ref. S003-WS09.
 - National Temperance Hospital, Site Office and Welfare 110-122 Hampstead Road and community garden, worksite ref. S003-WS06.
 - Taxi rank in Euston Square Gardens complete, worksite ref. S003-WS08.
 - Thames Water Compound, worksite ref. S001-WS05.
 - Vehicle Holding Area, worksite ref. S001-WS04 (yet to be established).

- 1.1.5 Nineteen (19) dust monitors are installed around worksites, where demolition and 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 in Figure 4.
- 1.1.7 There were no (0) exceedances of the dust trigger level recorded during the month of March 2019.
- 1.1.8 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) was undertaken at sixty-five (65) locations in February 2019, around highways within the LBC as part of the management of air quality where significant effects may occur as a result of 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 NO₂ monitoring locations and results are presented in Appendix C, Table 2, together with the 2019 running mean.
- 1.1.11 There were no complaints received, relating to air quality, during this monitoring period.

Appendix A – Worksites and Monitoring Locations

Figure 1 to 3: Worksites and monitoring locations within the LBC











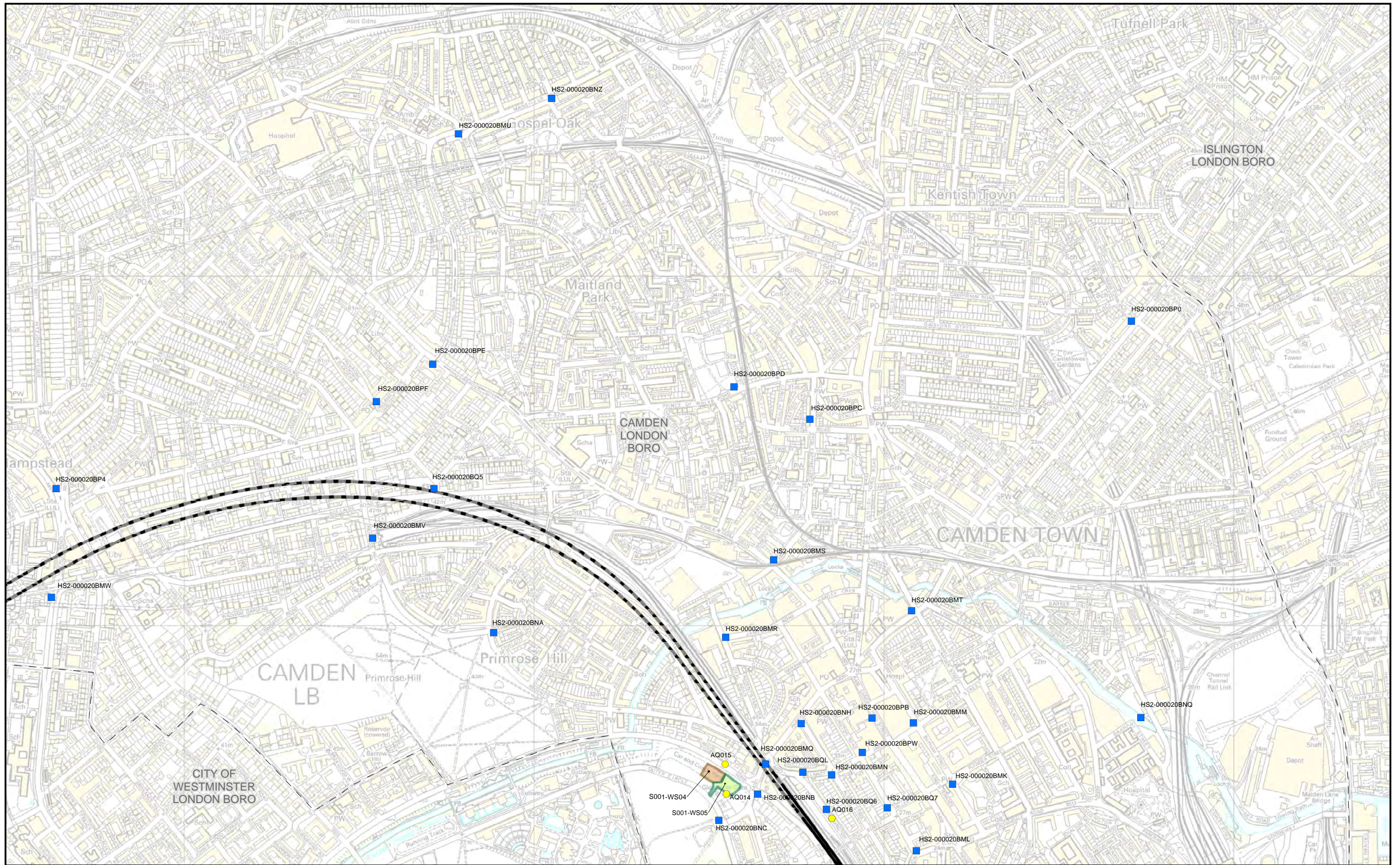
- Legend**
-  Route in tunnel
 -  Route on surface
 -  Diffusion tube monitoring location

Figure Number
Figure Name
Worksites and Monitoring locations in LBC
London Borough of Camden


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- Route in tunnel
- Route on surface
- Diffusion tube monitoring location
- Dust monitoring location
- Vehicle Holding Area
- Thames Water Compound

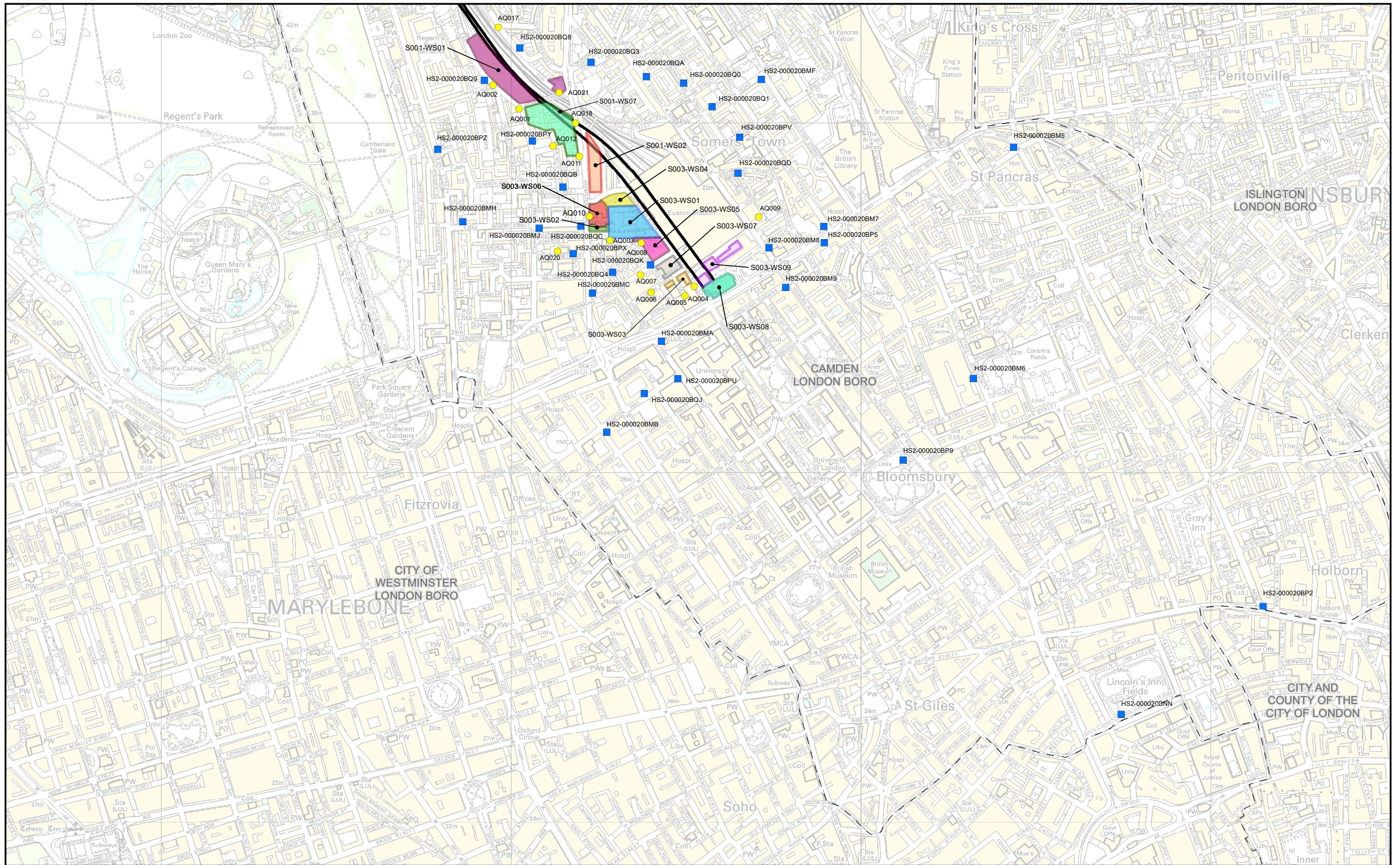
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Figure Name
Worksites and Monitoring locations in LBC (sheet 2)
London Borough of Camden

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Metres

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- Legend**
- Route in tunnel
 - Route on surface
 - Diffusion tube monitoring location
 - Dust monitoring location
 - DB Cargo Shed and Compound worksite
 - St. James' Gardens worksite
 - National Temperance Hospital worksite
 - Ibis Hotel, 3 Cardington Street & 1-3 Cobourg Street
 - National Temperance Hospital, Insull Wing
 - Walkden House, 65-75 & 77-79 Euston Street
 - Thistle Hotel, Cardington Street
 - Euston Street, Melton Street, Drummond Street block
 - Euston Square Gardens
 - One Euston Square, 40 Melton Street and Gran Thorton House, 22 Melton Street
 - 132 and 140 Hampstead Road and Petrol Station
 - Regents Park Estate

Figure Number

Figure Name
Worksites and Monitoring locations in LBC
 (sheet 3)

London Borough of Camden

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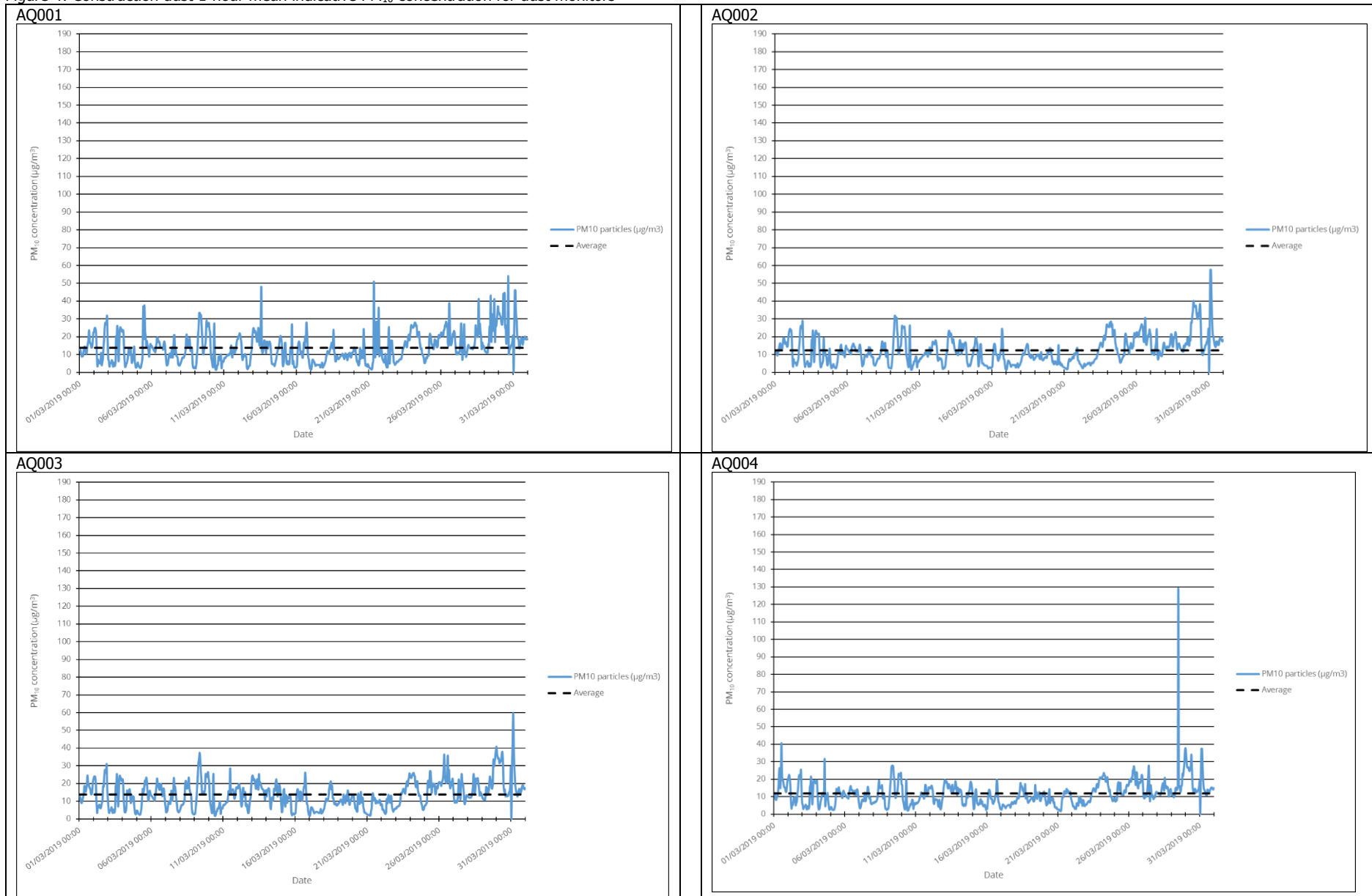
Appendix B – Dust Monitoring Results

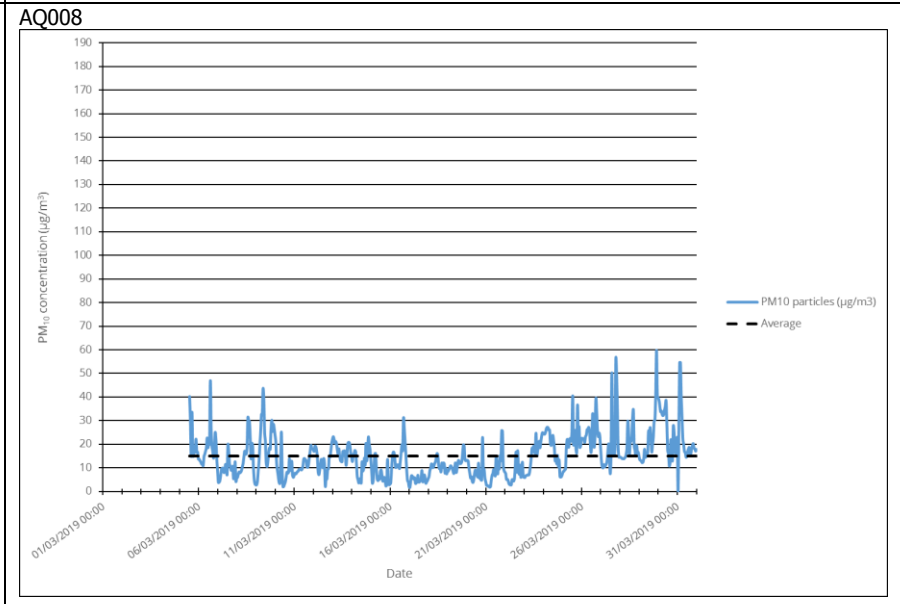
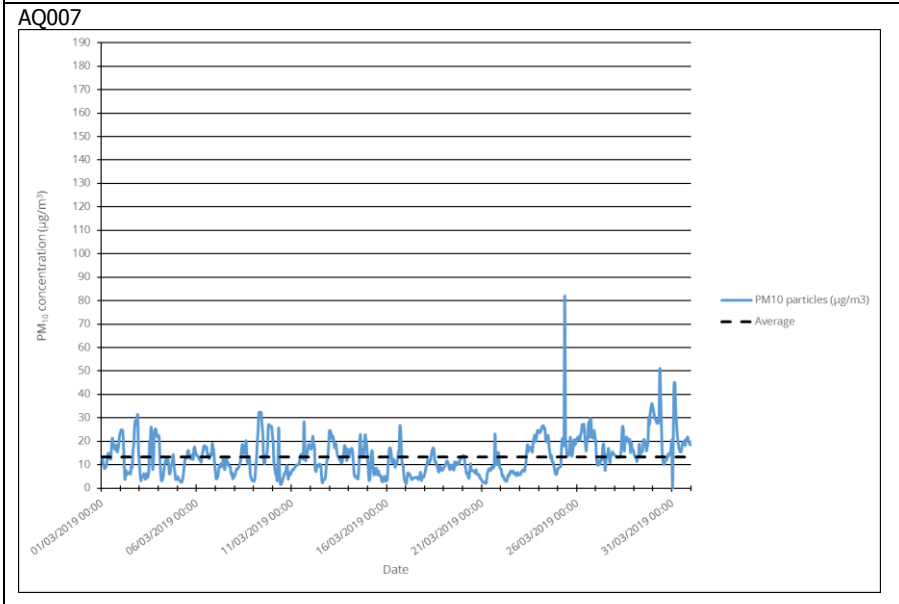
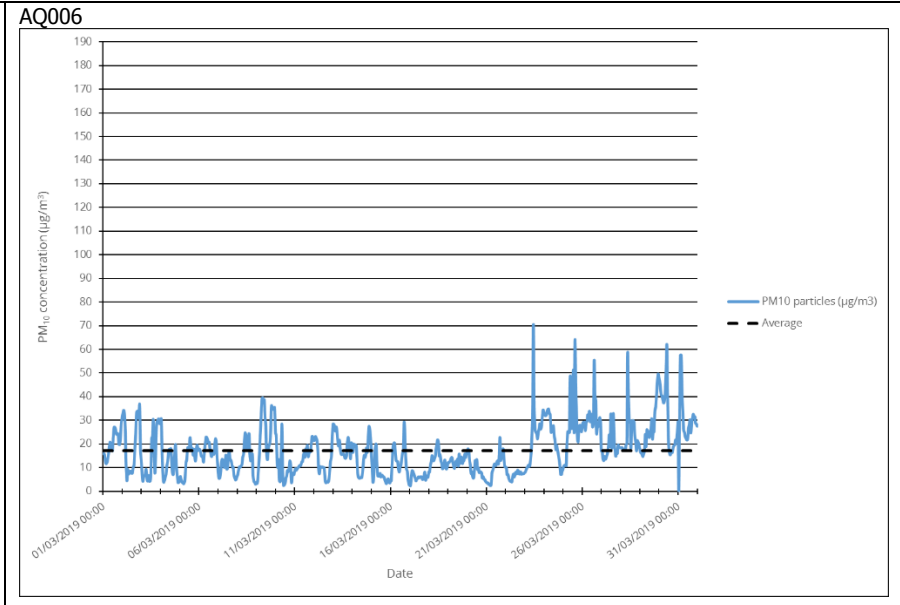
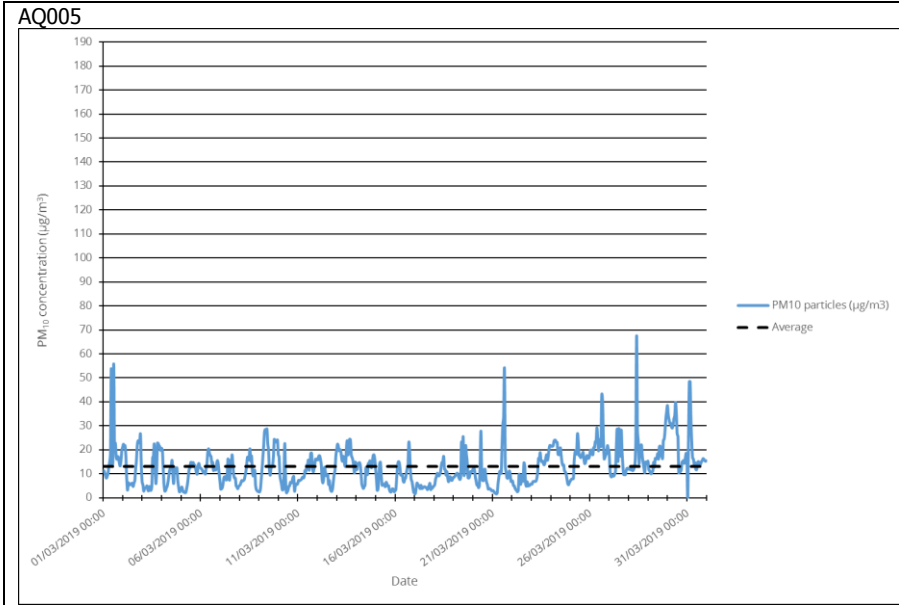
Table 1: Dust monitoring locations and March 2019 Results

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 ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	1-hour data capture (%)
AQ001	529022, 183040	Junction of Park Village East, Stanhope Street and Granby Terrace	H	Yes	N	13.8	1.3	54.0	0	99.9
AQ002	528947, 183107	Park Village East	H	Yes	N	12.4	1.4	57.5	0	99.9
AQ003	529282, 182663	St James Gardens	M	Yes	N	13.8	1.6	59.8	0	99.9
AQ004	529523, 182533	Melton Street	H	Yes	N	11.9	1.6	129.2	0	99.9
AQ005	529496, 182505	Stephenson Way	H	Yes	N	13.0	1.7	67.5	0	99.9
AQ006	529399, 182514	Euston Street	H	Yes	N	17.1	2.2	70.5	0	99.9
AQ007	529369, 182564	Drummond Street	H	Yes	N	13.3	1.5	82.1	0	99.9
AQ008	529369, 182648	Cobourg Street	H	Yes	N	14.9	1.6	59.7	0	85.3
AQ009	529707, 182730	Lancing Street	H	Yes	N	13.3	1.6	59.2	0	99.9
AQ010	529223, 182732	Hampstead Road South	H	Yes	N	19.3	1.8	148.8	0	99.9
AQ011	529195, 182904	Hampstead Road	H	Yes	N	20.7	1.9	180.3	0	99.9
AQ012	529119, 182934	Mackworth Street	H	Yes	N	12.8	1.2	57.0	0	99.9

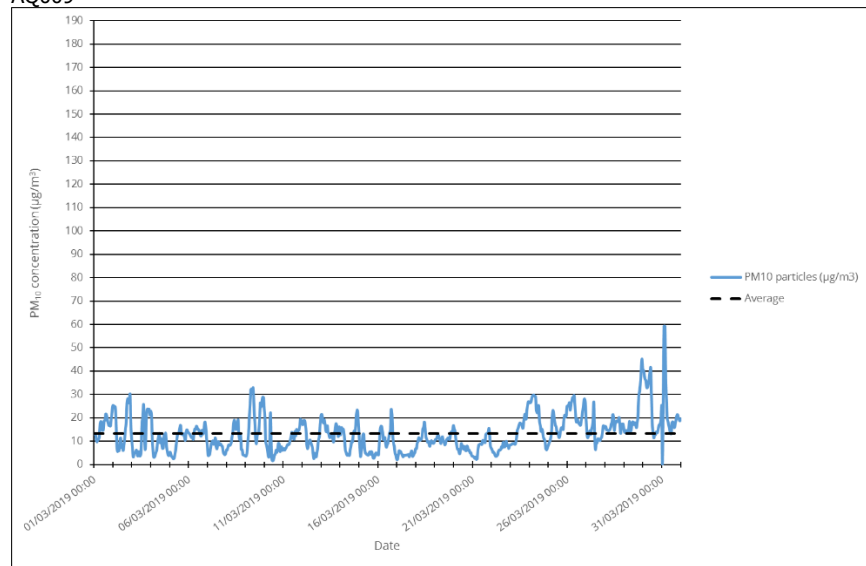
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	1-hour data capture (%)
AQ014	528550, 183518	Thames Water Compound	L	Yes	N	11.3	1.2	59.5	0	99.9
AQ015	528546, 183604	Prince Albert Road	L	Yes	N	13.0	1.4	167.2	0	99.9
AQ016	528851, 183448	Mornington Terrace North	H	Yes	N	9.5	0.7	36.5	0	99.9
AQ017	528963, 183274	Mornington Terrace South	H	Yes	N	10.1	1.0	47.0	0	99.9
AQ018	529184, 182999	Hampstead Road North	H	Yes	N	18.1	1.3	125.3	0	99.9
AQ020	529132, 182633	Netley School	n/a	Yes	N	12.9	1.4	44.5	0	99.7
AQ021	529127, 183116	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge.	H	Yes	N	13.9	1.8	57.3	0	99.9

Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitors

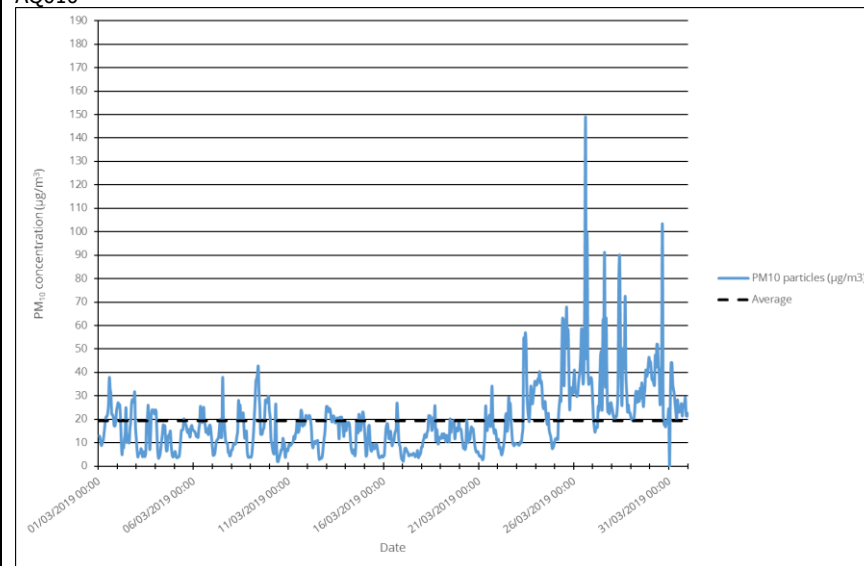




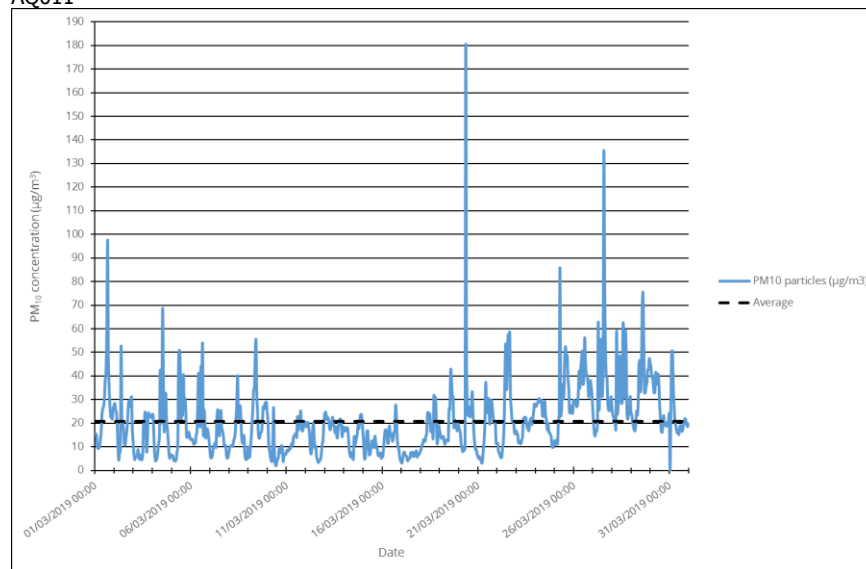
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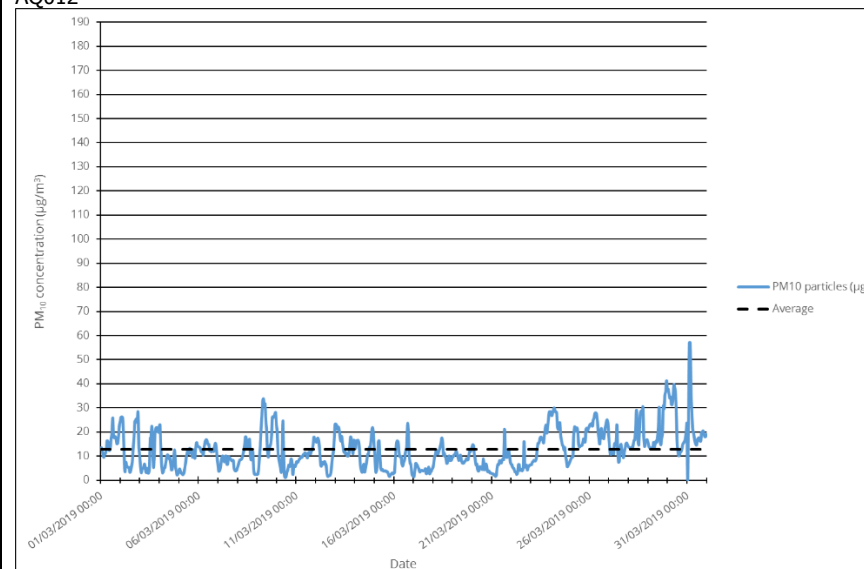
AQ010

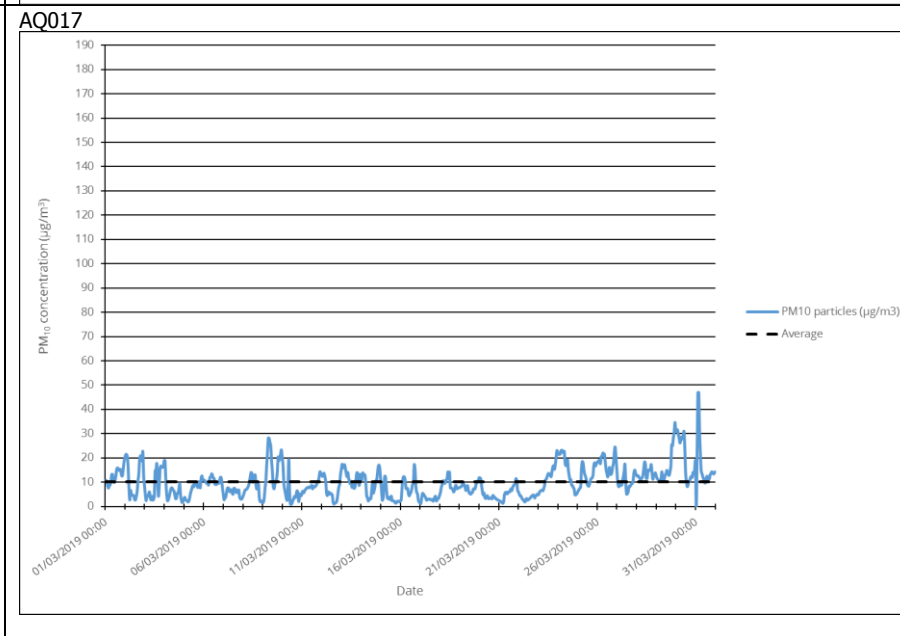
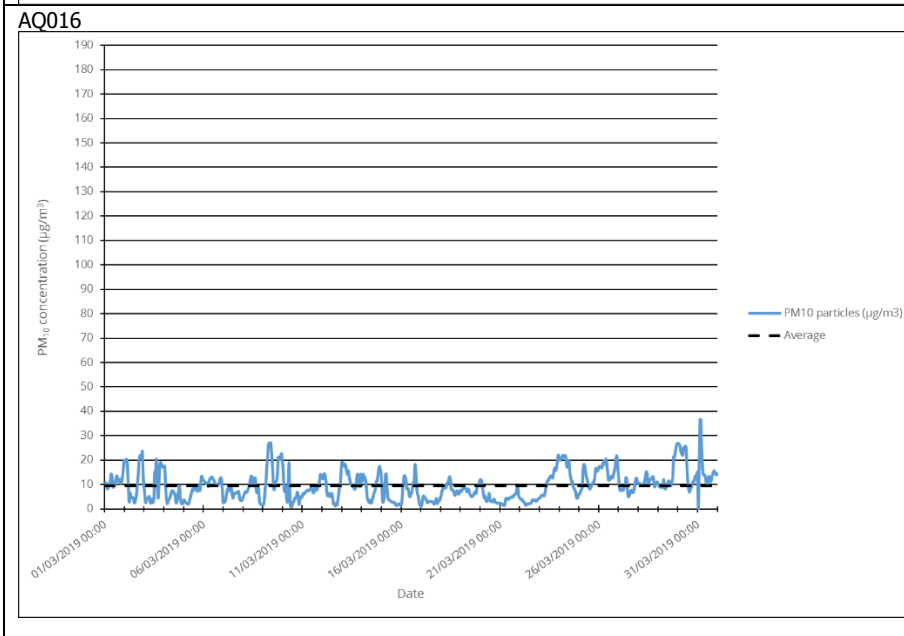
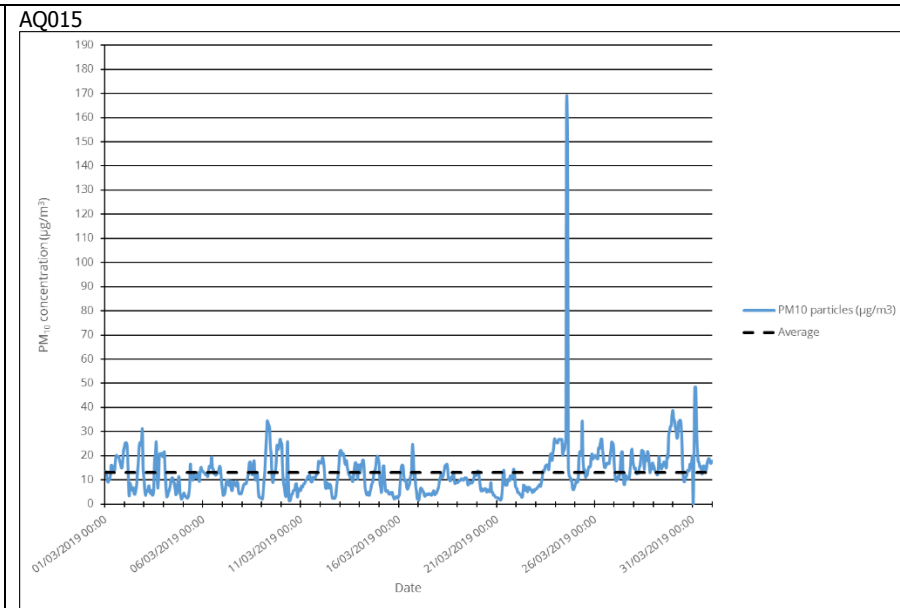
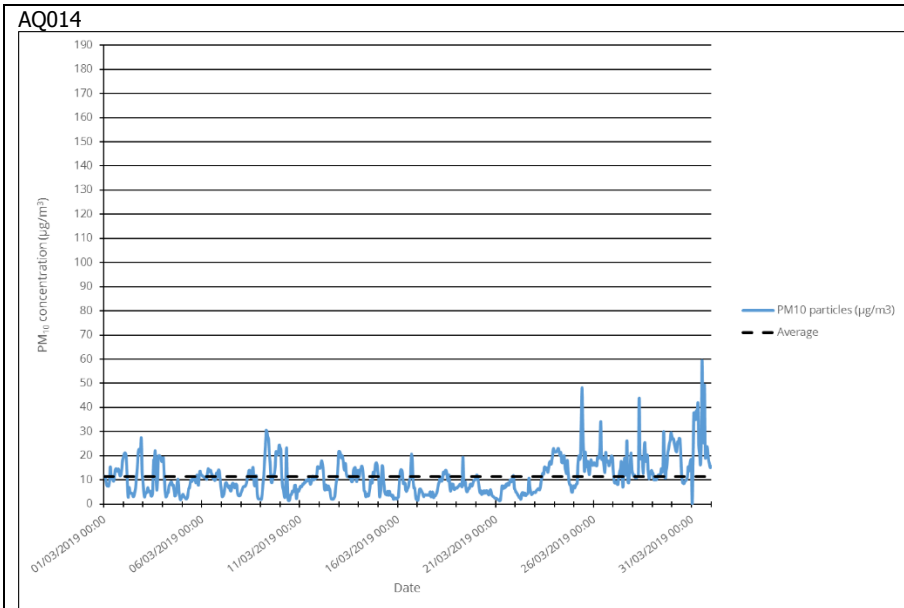


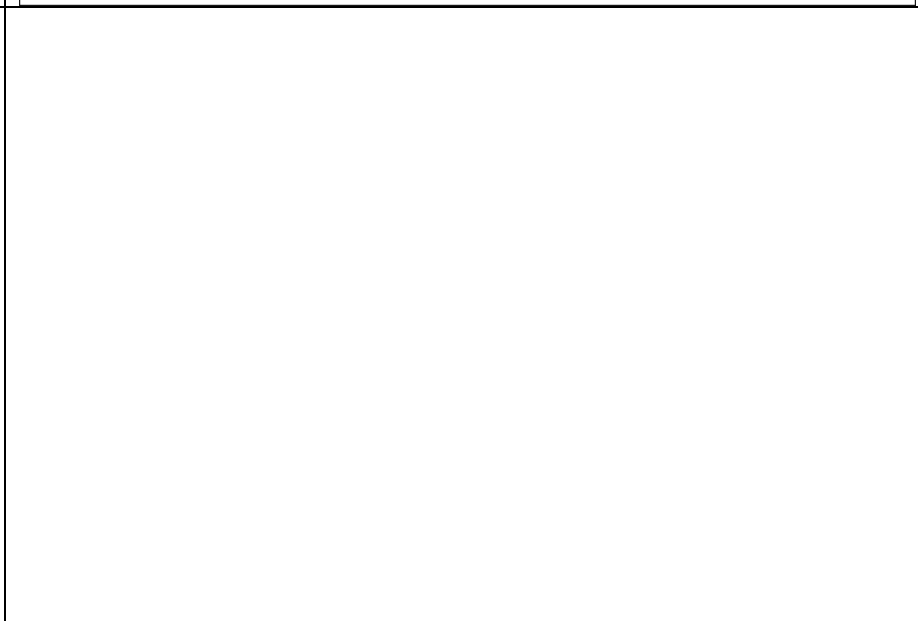
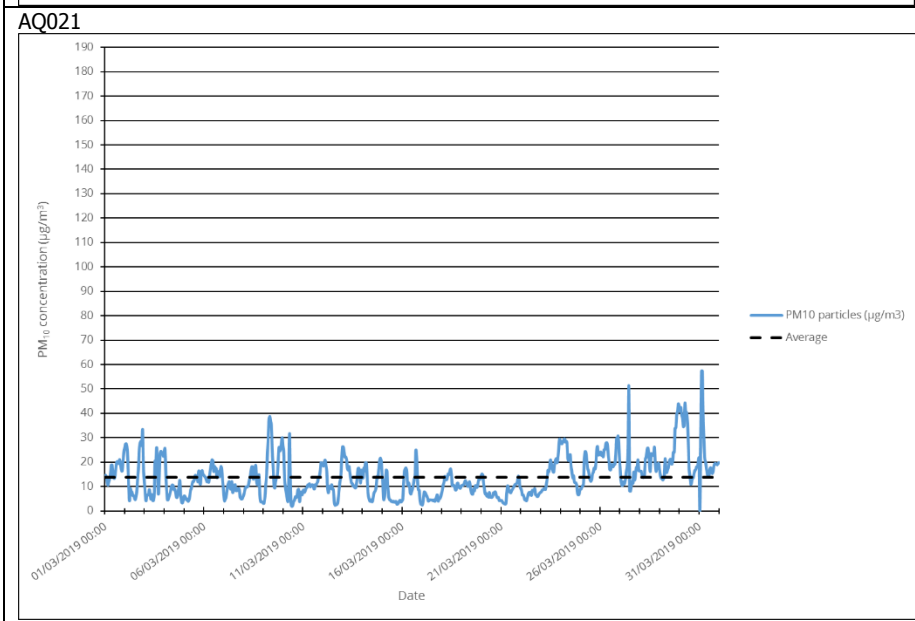
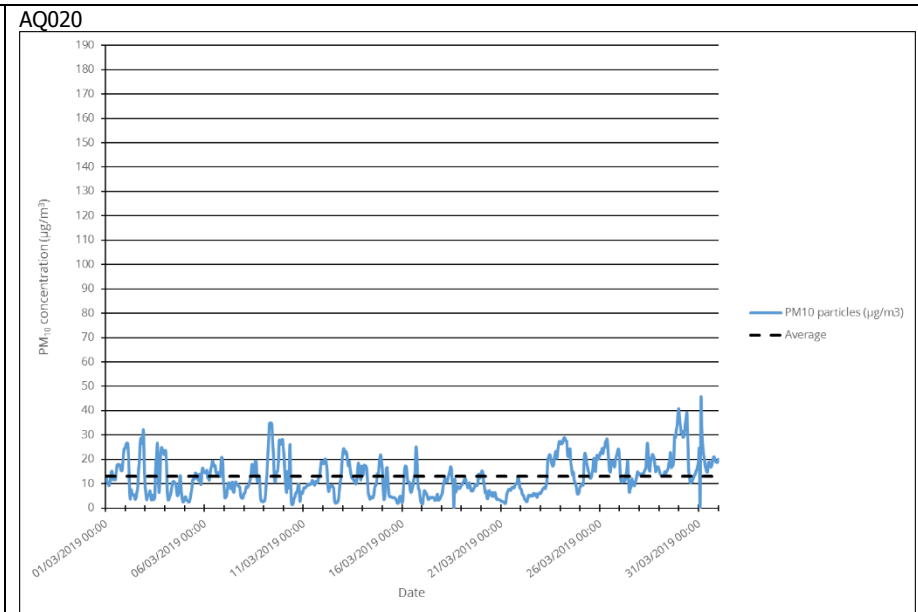
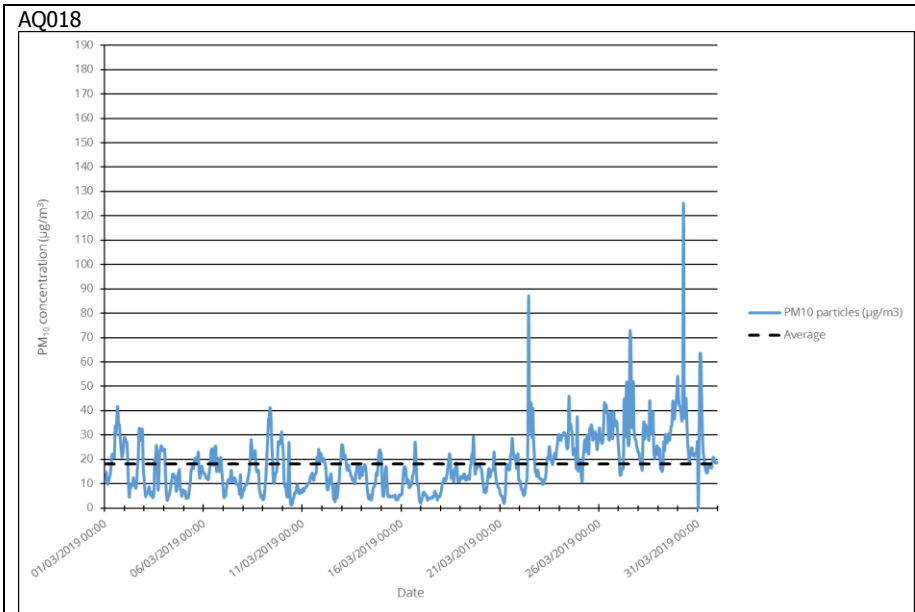
AQ011



AQ012







Appendix C – Air Quality Monitoring Results

Table 2: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2019 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BM5	Junction of St Chad's Street and Grays Inn Road	530436, 182929	58	64											61
HS2-000020BM6	Brunswick Square	530321, 182268	51	63											57
HS2-000020BM7	Chalton Street	529894, 182702	63	83											73
HS2-000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	63	72											68
HS2-000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	47	63											55
HS2-000020BMA	Junction of Euston Road and Gower Street	529429, 182375	51	76											64
HS2-000020BMB	Whitfield Street	529273, 182114	49	58											54
HS2-000020BMC	Hampstead Road	529232, 182511	53	84											69
HS2-000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	39	47											43
HS2-000020BMH	Nash Street	528861, 182717	43	51											47
HS2-000020BMJ	Junction on Robert Street and Stanhope Street	529080, 182698	39	43											41

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.

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	66	68											67
HS2-000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	47	44											45
HS2-000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	52	75											64
HS2-000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	43	53											48
HS2-000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	50	57											53
HS2-000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	44	49											46
HS2-000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	59	52											56
HS2-000020BMT	Junction of Camden Road and Camden Street	529079, 184043	57	57											57
HS2-000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	47	51											49
HS2-000020BMV	Primrose Hill Road	527538, 184250	46	45											46
HS2-000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081	61	59											60
HS2-000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	87	92											89
HS2-000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	45	48											47
HS2-000020BNB	Junction of Gloucester Gate Bridge and Park Village East	528639, 183518	53	45											49

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	35	36											35
HS2-000020BNH	Junction of Parkway and Albert Street	528763, 183720	43	53											48
HS2-000020BNN	Lincoln's Inn Fields	530744, 181308	50	Tube missing											50
HS2-000020BNQ	Camley Street	529735, 183737	50	49											49
HS2-000020BNY	Junction of Mill Lane and Hillfield Road	524839, 185136	53	50											52
HS2-000020BNZ	Mansfield Road	528050, 185508	24	44											34
HS2-000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	52	70											61
HS2-000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	65	52											59
HS2-000020BPB	Camden High Street	528966, 183735	65	81											73
HS2-000020BPC	Castlehaven Road	528788, 184591	45	47											46
HS2-000020BPD	Prince of Wales Road	528571, 184683	35	43											39
HS2-000020BPE	Haverstock Hill	527710, 184749	54	62											58
HS2-000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	44	52											48
HS2-000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	54	60											57
HS2-000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	48	51											50
HS2-000020BPX	Netley Street	529177, 182625	43	50											47
HS2-000020BPY	Stanhope Street	529060, 182947	34	46											40

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BPZ	Albany Street	528790, 182923	44	57											51
HS2-000020BQ0	Werrington Street	529493, 183113	43	Tube missing											43
HS2-000020BQ1	Polygon Road	529574, 183045	41	46											43
HS2-000020BQ2	Alexandra Place	526320, 183980	42	Tube missing											42
HS2-000020BQ3	Harrington Square	529228, 183172	46	60											53
HS2-000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	51	54											52
HS2-000020BQ5	Adelaide Road	527713, 184392	50	54											52
HS2-000020BQ6	Mornington Terrace	528836, 183474	45	46											45
HS2-000020BQ7	Arlington Road	529009, 183479	43	40											41
HS2-000020BQ8	Clarkson Row	529024, 183213	42	45											43
HS2-000020BQ9	Park Village East	528923, 183121	40	44											42
HS2-000020BQA	Eversholt Street	529386, 183132	57	67											62
HS2-000020BQB	Junction of Harrington Street and Varndell Street	529147, 182816	42	43											43
HS2-000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	49	48											48
HS2-000020BQD	Drummond Crescent	529648, 182856	50	51											50
HS2-000020BQJ	Grafton Way	529380, 182225	64	70											67
HS2-000020BQL	Delancey Street	528768, 183581	58	57											58

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BQR	Lamp post on Park Village East	528682, 183505	46	42											44
HS2-000020BQS	Opposite Maria fidelis school on Pheonix Road	529670, 182982	43	43											43
HS2-000020BQT	Drummond Street	529385, 182581	52	51											51
HS2-000020BP4	Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station	526633, 184392	64	Tubes missing											64
HS2-000020BP5	Triplicate site next to the Euston Road roadside automatic monitoring stations	529895, 182657	Tubes missing	81											81
HS2-000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	55	47											51