

## Air Quality and Dust Monitoring Monthly Report – **October** 2020

London Borough of Camden



**SKANSKA**



## Department for Transport

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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 Camden (LBC) during September and October 2020 respectively.
- 1.1.2 Figure 1 to Figure 4 in Appendix A indicate the current worksites 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 enabling works commenced within the LBC during December 2017 and is expected to be completed by July 2021. The next concurrent phase of construction works commenced in November 2019 and is expected to be completed by 2025. The current and worksites, include:
- Adelaide Road Vent Shaft – Site set up and vegetation clearance;
  - Vehicle Holding Area, excavation and groundworks;
  - Site office and welfare on Granby Terrace / Hampstead Road;
  - Euston Scissor Cut test materials management;
  - Euston Throat Retained Cut groundworks, utilities diversion works and materials management;
  - Hampstead Road Bridge – mobilisation and site setup;
  - Compound and Power Signal Box mobilisation, site set up and pre-demolition surveys;
  - Site Office and Welfare at 110-122 Hampstead Road;
  - Archaeological dig at St James' Gardens, groundworks and materials management and utilities diversion works;
  - Euston Street London Underground Traction Substation and Vent Shaft site set up and acoustic shed construction;
  - Euston Street Walkden and Wolfson House demolition and groundworks;
  - Melton Street ground floor demolition and site demobilisation;
  - Piling mat construction, trial bores and piling works;
  - Guide Wall construction and removal of internal access ramp and reconstruction with new gradients and imported material; and
  - Water management system installation.
- 1.1.5 Twenty-one (21) dust monitors are installed around worksites, where demolition, groundworks and materials management 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 2, together with line charts of monthly data from each dust monitor in Figure 5. 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<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, 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 two (2) dust trigger alerts recorded during the monitoring period (October 2020). However, following investigations it was noted that these exceedances were not related to HS2 site activities. Exceedance are presented in Appendix B, Table 3. All other results were in line with expected ranges.
- 1.1.9 Data capture for monitors AQ011 and AQ012 were below 90% for the month of October 2020, due to power loss to both the monitors, which has been restored. During the power loss to these 2 monitors, the works were adequately covered by other monitors to ensure mitigation measures were being effectively implemented.
- 1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO<sub>2</sub>) is undertaken at sixty-five (65) locations around highways within the LBC as part of the management of air quality where significant effects may occur as a result of the scheme.
- 1.1.11 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.
- 1.1.12 NO<sub>2</sub> monitoring locations and results are presented in Appendix C, Table 4, together with the 2020 running mean.
- 1.1.13 Table 1 provides a summary of the complaint information related to dust or air quality received during the reporting period (October 2020), together with the findings of any related investigations.

Table 1: Summary of complaints received during October 2020 in LBC

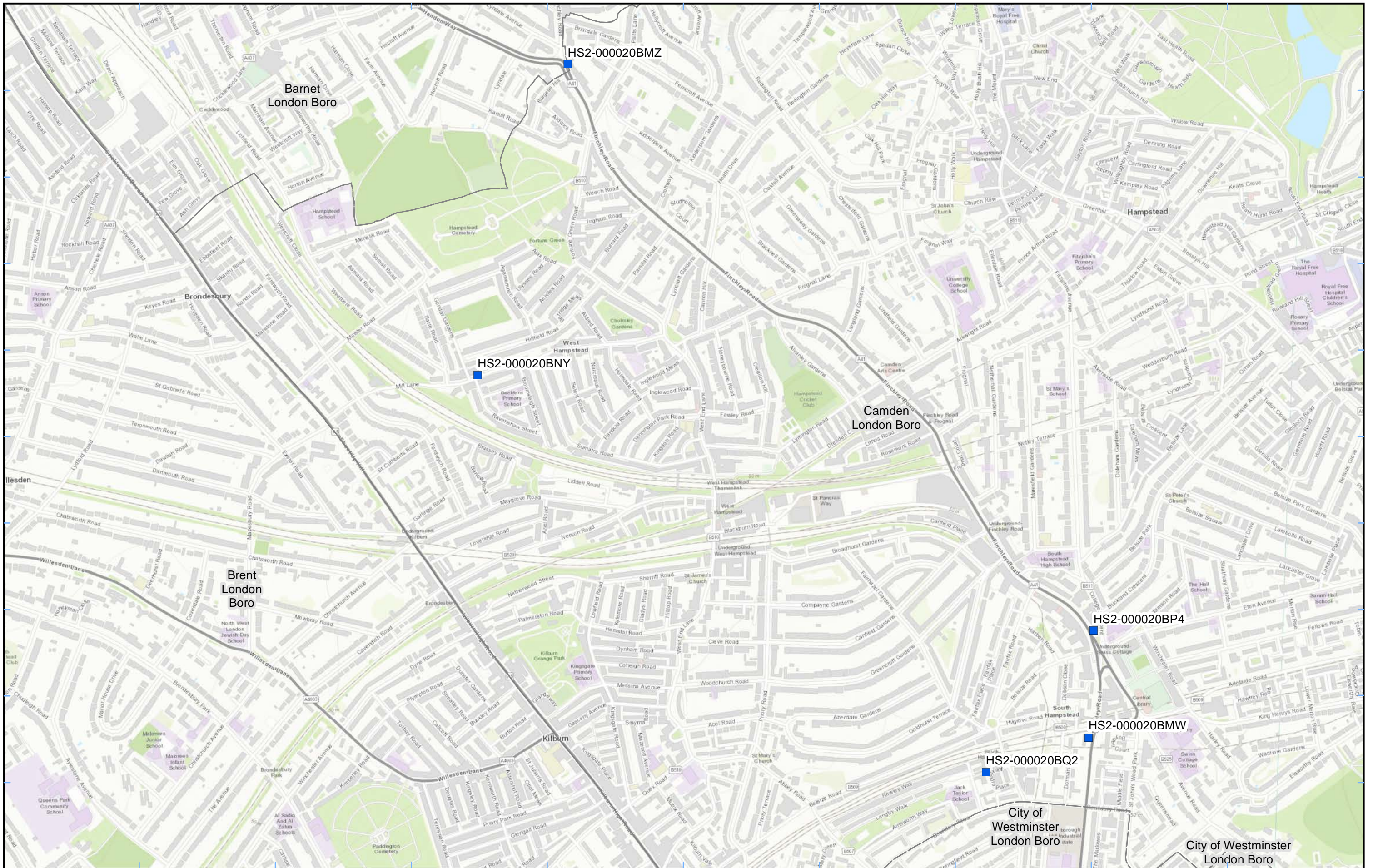
Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-20-40643-C	-	On 1 <sup>st</sup> October a concern was raised about the pollution levels in being experienced at the residential properties adjacent to the sites.	Confirmation of the dust management and mitigation measures including damping down works provided to the resident, and that we acknowledge concerns from those residents living adjacent to the works. In line with the HS2 Air Quality Strategy we will continue to avoid, minimise and mitigate our works in

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
			accordance in line with best practical means (Code of Construction Practice).
HS2-20-40687-C	-	On the 8 <sup>th</sup> October a resident raised concerns of the presence of dust within their property.	Confirmation of the dust management and mitigation measures including damping down works were provided to the resident, along with information on the installation of worksite hoardings. The residents concerns were acknowledged, and it was highlighted that HS2 will continue to ensure all works are carried out in line with best practical means and the HS2 Air Quality Strategy aimed to avoid, minimise and mitigate the impacts of our works.
HS2-20-40754-C	-	A complaint was raised on the 16 <sup>th</sup> October around noise and sawdust from the felling of trees.	A response was provided around the mitigations we have in place (in accordance with Code of Construction Practice) aimed to minimise and mitigate emissions linked to our activities.

# Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 4: Worksites and monitoring locations within the LBC






**Legend**  
■ Diffusion Tube  
 District Borough Unitary Boundaries

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Map Number	
Map Name	Monitoring Locations In LBC (Sheet 1)
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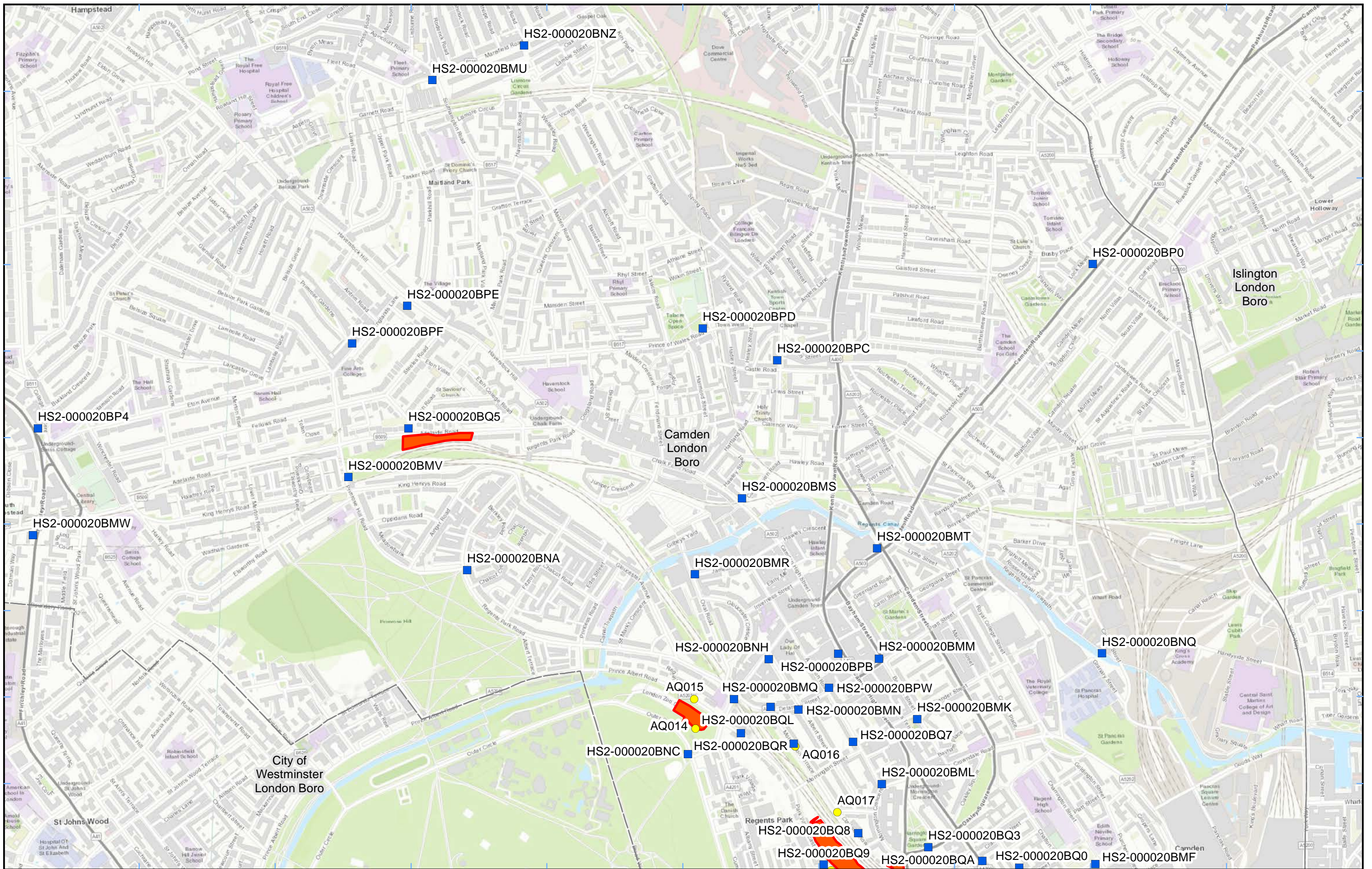
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Metres

Date: 08/12/20





**Legend**

- Diffusion Tube
- Worksite
- Dust Monitor
- District Borough Unitary Boundaries

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Map Number  
 Map Name  
**Worksite and Monitoring Locations  
 In LBC (Sheet 2)**  
 London Borough of Camden

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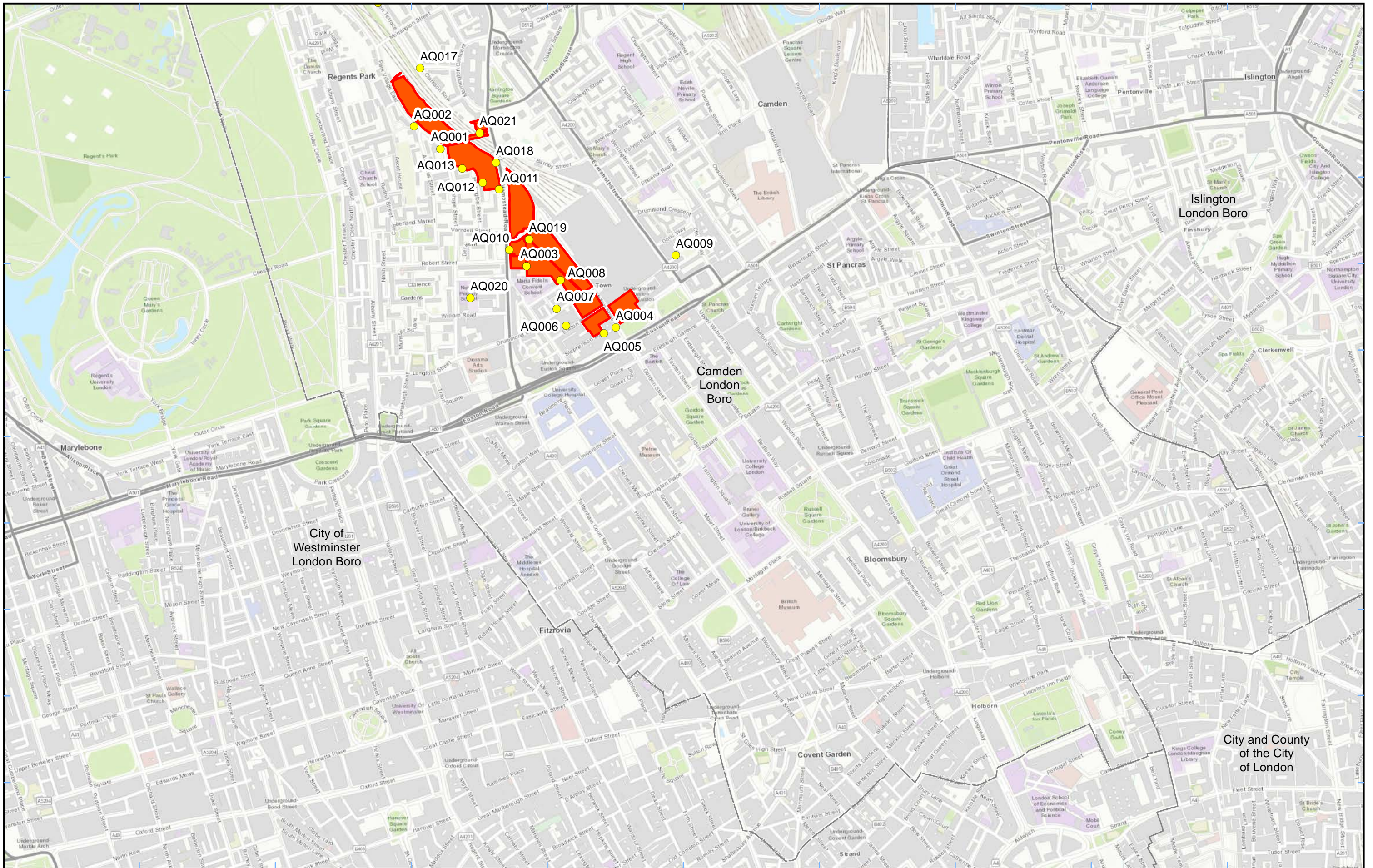
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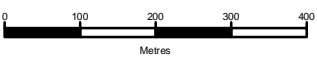


**Legend**  
 ● Dust Monitor □ District Borough Unitary Boundaries  
 ■ Worksite

Map Number  
 Map Name  
**Worksite and Dust Monitoring Locations In LBC (Sheet 3)**  
**London Borough of Camden**


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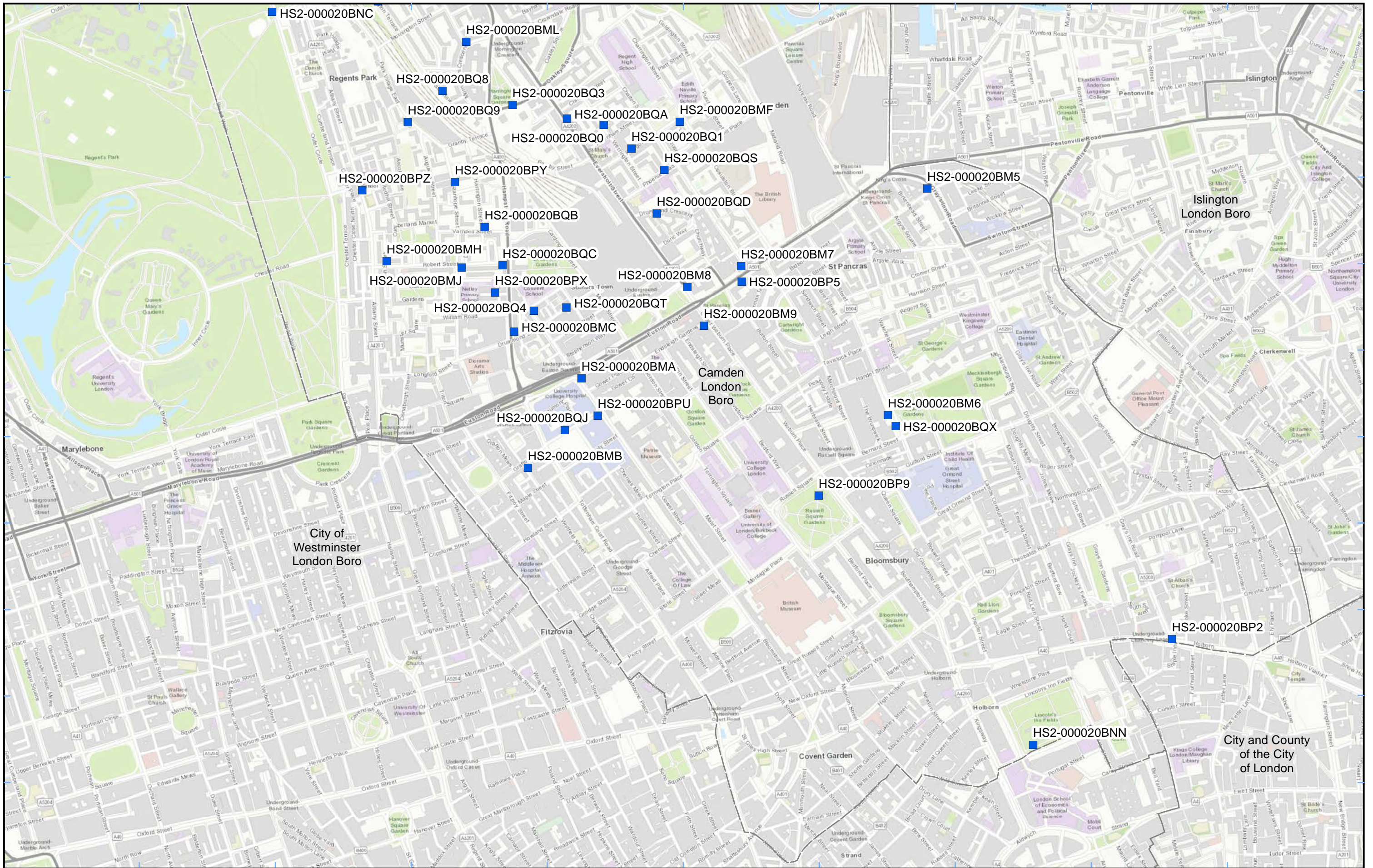
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**Legend**  
 ■ Diffusion Tube  
 □ District Borough Unitary Boundaries


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Map Number  
 Map Name  
**DT Monitoring Locations In LBC**  
**(Sheet 4)**  
 London Borough of Camden


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## Appendix B – Dust Monitoring Results

Table 2: Dust monitoring locations and October 2020 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>	Data capture (%)
AQ001	529022, 183040	Junction of Park Village East, Stanhope Street and Granby Terrace	M	Yes	N	9.6	1.0	46.4	0	100.0
AQ002	528945, 183105	Park Village East	M	Yes	N	9.2	1.1	27.4	0	100.0
AQ003	529273, 182698	St James' Gardens	M	Yes	N/A	13.2	1.7	81.2	0	99.5
AQ004	529533, 182519	Melton Street	H	Yes	N/A	10.7	1.4	186.9	0	99.9
AQ005	529498, 182502	Stephenson Way	H	Yes	N/A	10.5	1.1	30.8	0	100.0
AQ006	529388, 182524	Euston Street	H	Yes	N/A	9.2	1.0	110.6	0	100.0
AQ007	529361, 182574	Drummond Street	H	Yes	N/A	8.0	0.8	23.7	0	100.0
AQ008	529372, 182657	Cobourg Street	H	Yes	N/A	12.6	1.0	253.6	2	99.3
AQ009	529707, 182730	Eversholt Street	H	Yes	N/A	9.8	1.0	28.3	0	100.0
AQ010	529223, 182746	Hampstead Road South	M	Yes	N/A	17.5	2.9	96.0	0	100.0
AQ011	529193, 182921	Hampstead Road	M	Yes	N	9.9	1.4	33.7	0	65.9

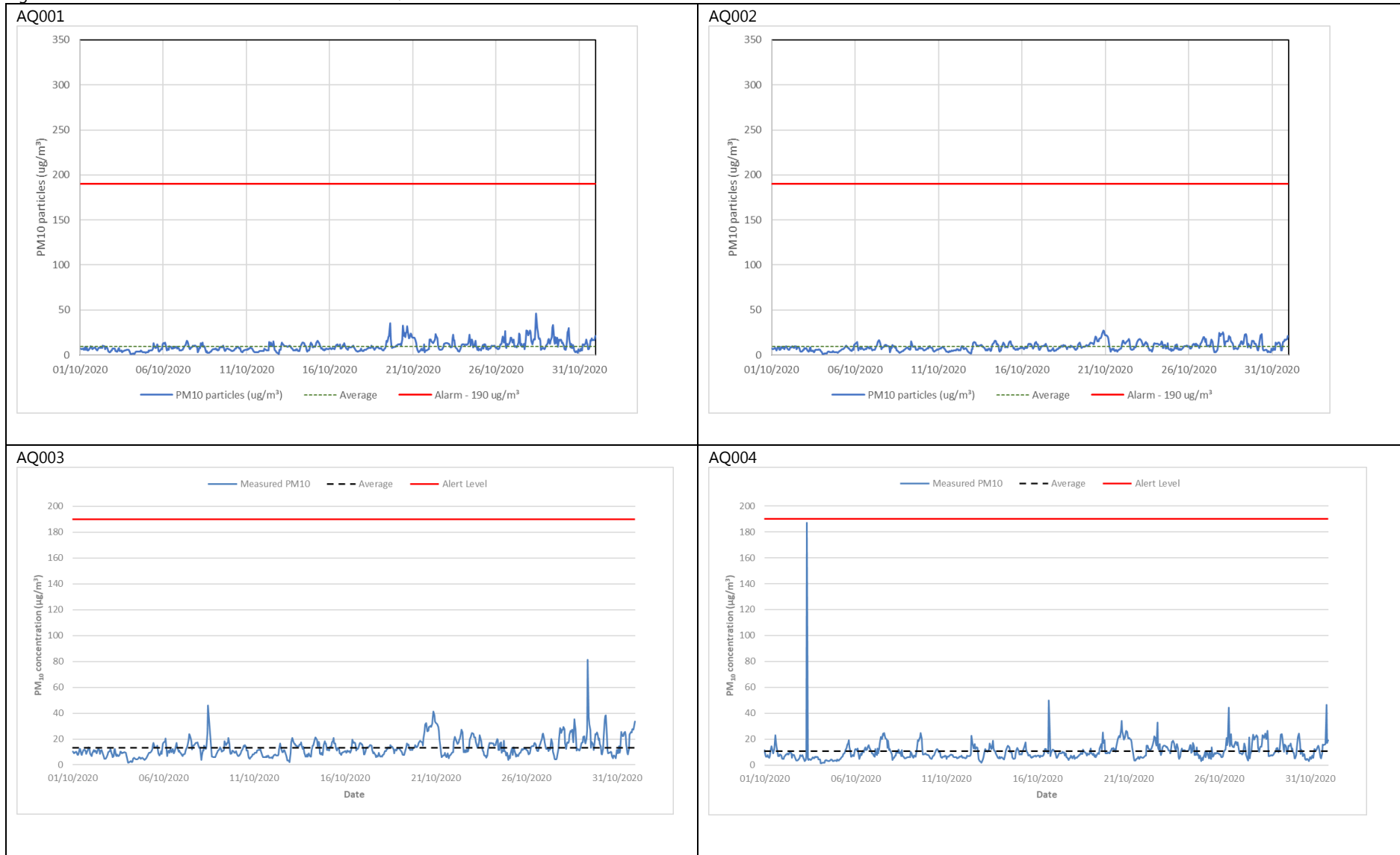
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 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>	Data capture (%)
AQ012	529145, 182941	Rear of Coniston House	M	Yes	N	10.3	1.2	35.8	0	67.4
AQ013	529086, 182983	Regents Park Estate	M	Yes	N	12.0	1.4	35.8	0	100.0
AQ014	528550, 183518	Vehicle Holding Area	L	Yes	N	8.4	1.3	43.1	0	91.8
AQ015	528546, 183604	Prince Albert Road	L	Yes	N	15.0	1.6	102.2	0	100.0
AQ016	528840, 183466	Mornington Terrace North	M	Yes	N	6.5	0.7	18.7	0	100.0
AQ017	528963, 183274	Mornington Terrace South	M	Yes	N	9.0	0.9	28.3	0	100.0
AQ018	529184, 182999	Hampstead Road North	M	Yes	N	8.6	0.9	28.8	0	99.6
AQ019	529280, 182776	Park Village East (North)	M	Yes	N	8.8	1.0	25.6	0	100.0
AQ020	529109, 182605	Netley School	n/a	Yes	N/A	8.4	0.2	29.3	0	100.0
AQ021	529136, 183086	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge.	M	Yes	N	12.2	1.6	41.1	0	95.4



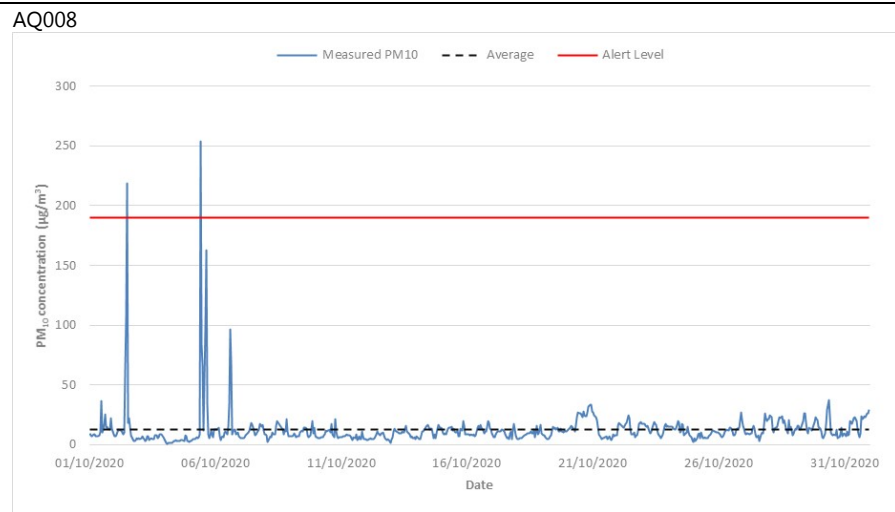
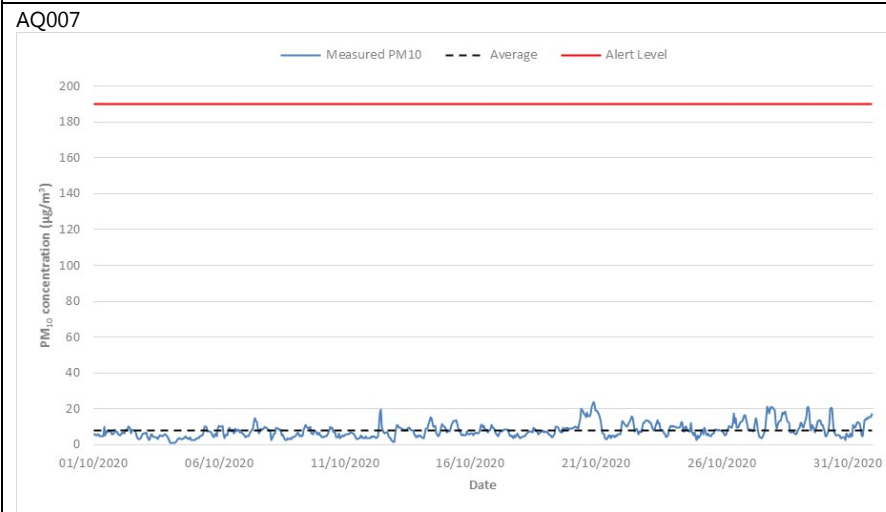
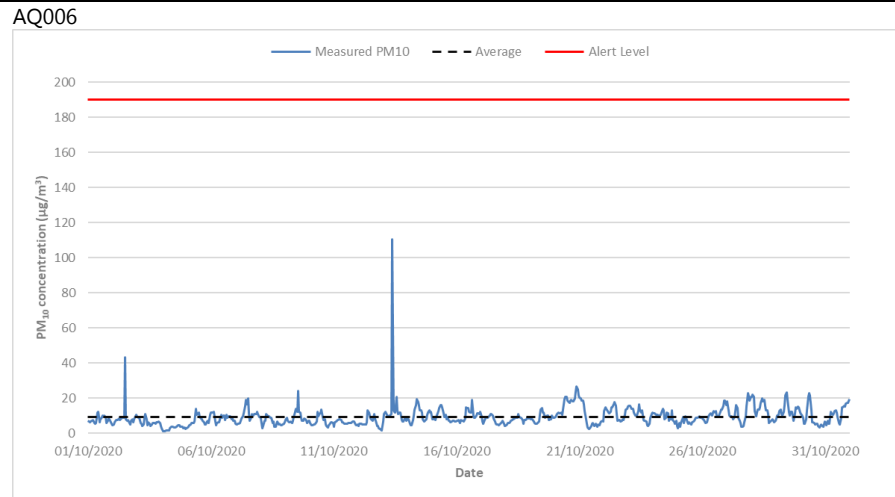
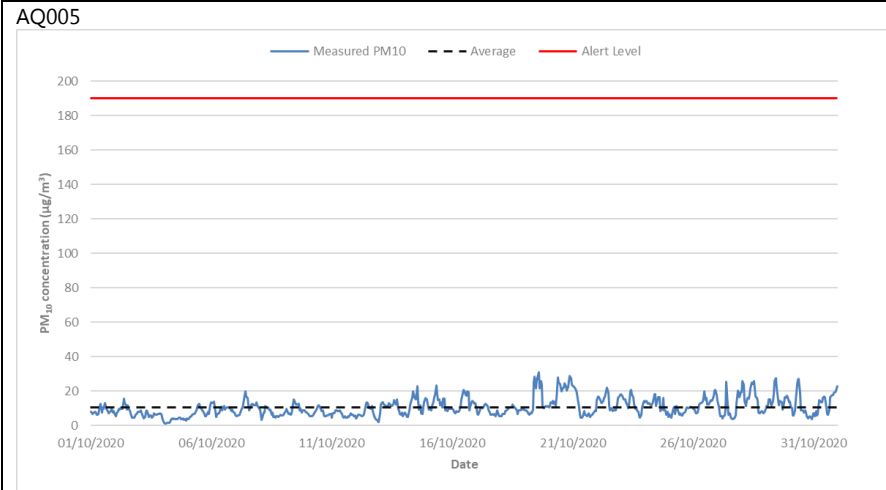
Table 3: Summary of exceedances of trigger level in October 2020

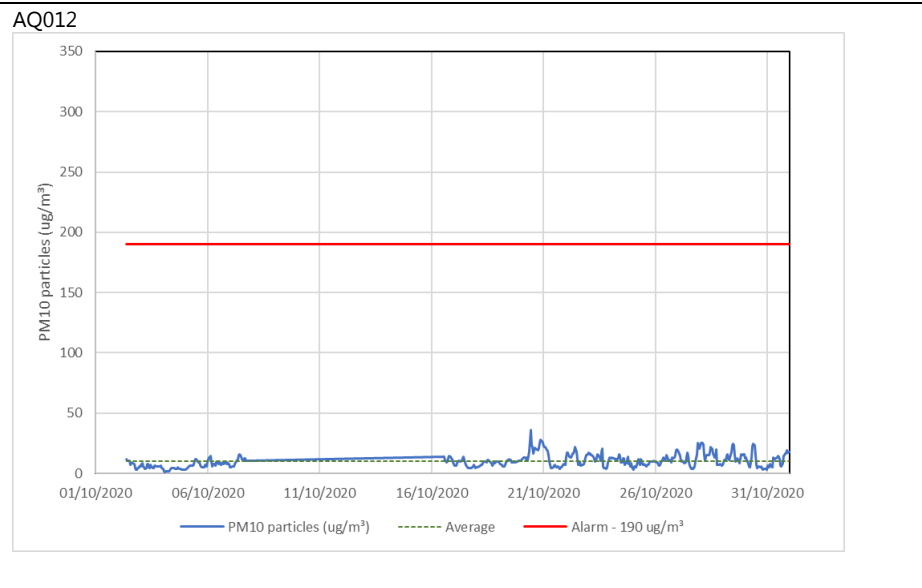
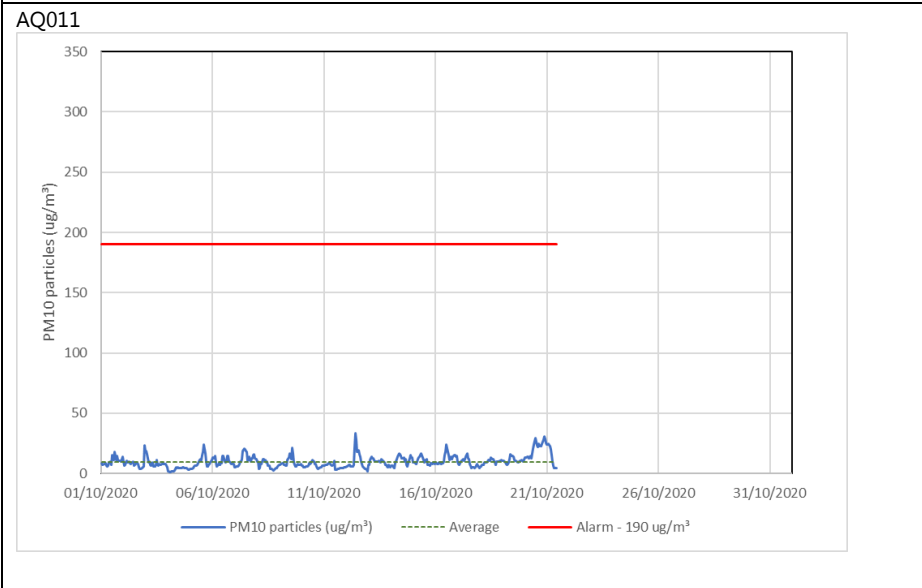
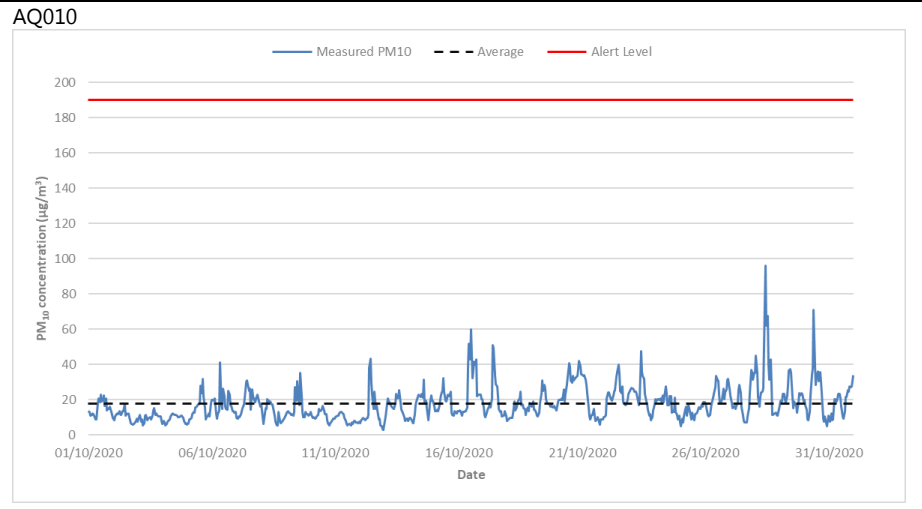
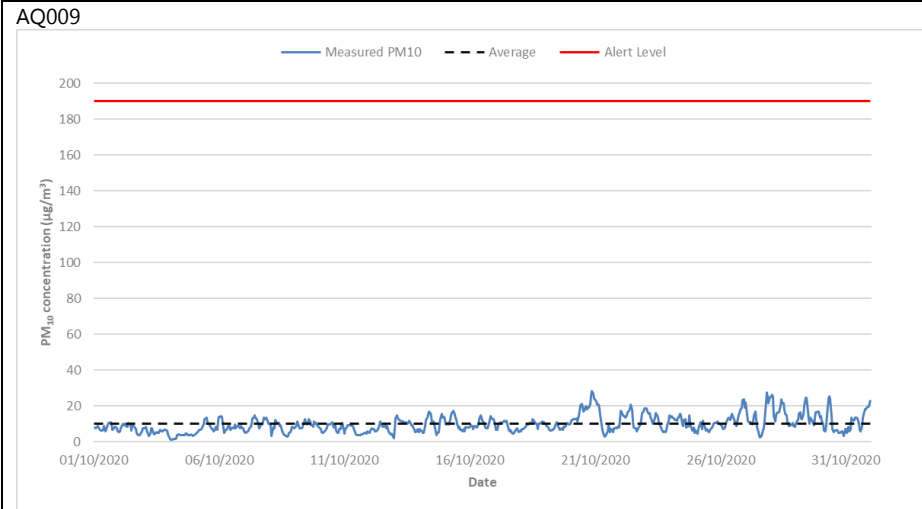
Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ008	02/10/2020 11:01 - 12:00: 218.9 ug/m <sup>3</sup>	On receipt of trigger alert, the MDJV site supervisor immediately undertook a site inspection. It was confirmed that there were no activities being carried out in Area 4 (in proximity of the monitor location). Some levelling of crushed material was carried out in Area 3, that was well damped down (consistent with the wet weather conditions experienced on the day). On inspection beyond the site boundary, the site supervisor discovered that some works (unrelated to HS2) were being carried out on the pavement (cutting and breaking out activities) on the corner of the Exmouth Arms pub (in close proximity to the monitor).	MDJV continued to closely monitor the PM10 concentrations, and can confirm that no further triggers were received, with PM10 concentrations decreasing once breaking out activities were completed.
AQ008	05/10/2020 09:01 - 10:00: 253.6 ug/m <sup>3</sup>	As per investigation on the 2 <sup>nd</sup> October (row above), the MDJV site supervisor has confirmed that no activities were being undertaken in Area 4. Furthermore, it has been confirmed that the pavement works (breakout / cutting), unrelated to HS2 works, was continuing to be undertaken on the corner of the Exmouth Arms pub (adjacent to the monitor).	MDJV will continue to monitor PM10 concentrations and ensure that all activities being undertaken on site have appropriate mitigation measures applied (in line with the CoCP).

Figure 5: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for dust monitors

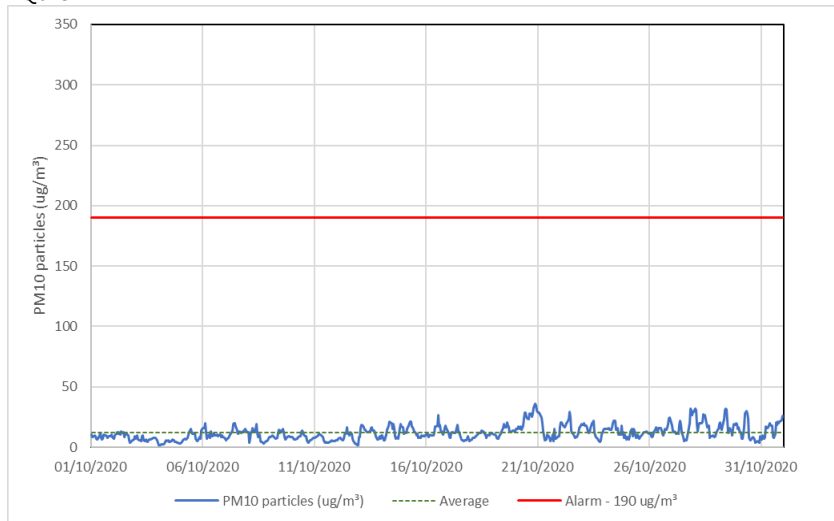




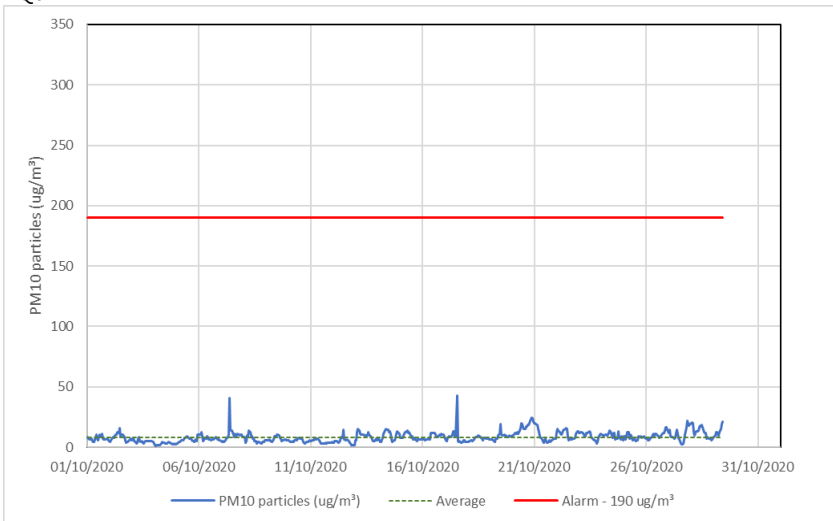




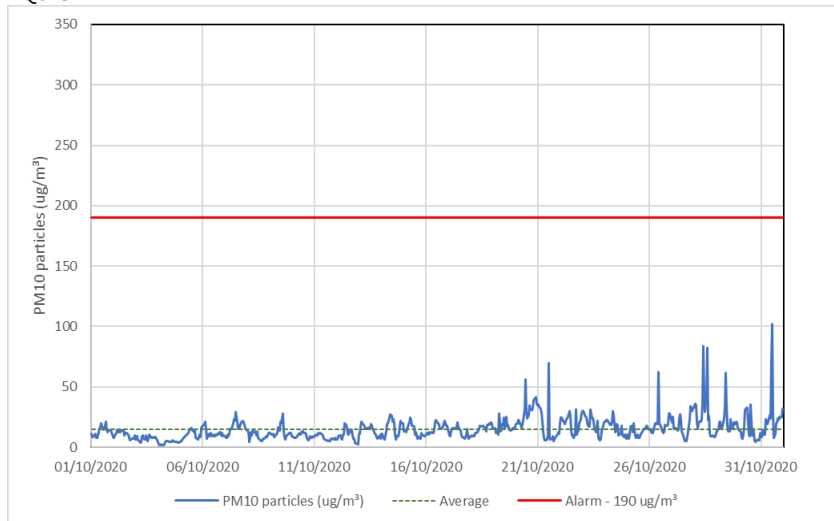
AQ013



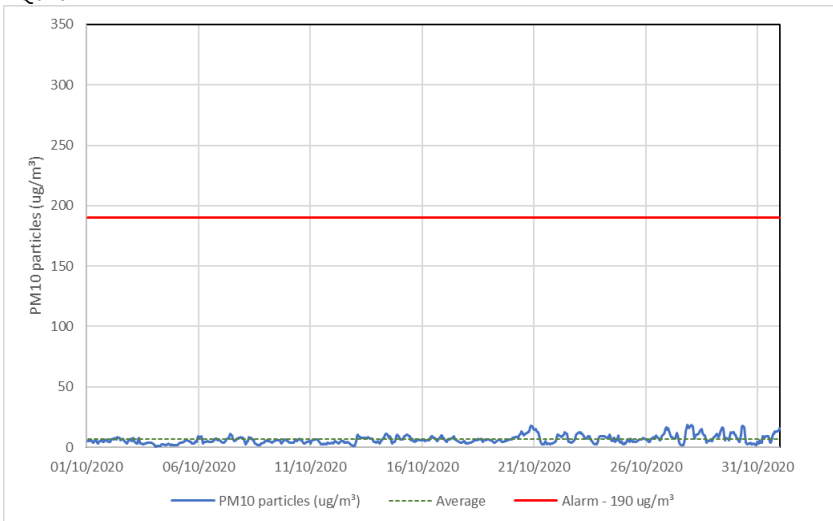
AQ014



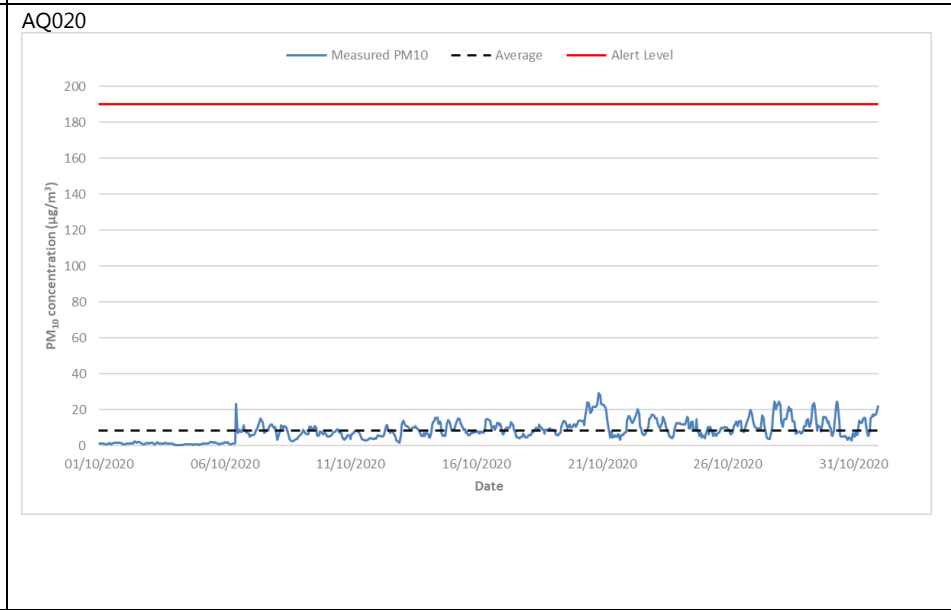
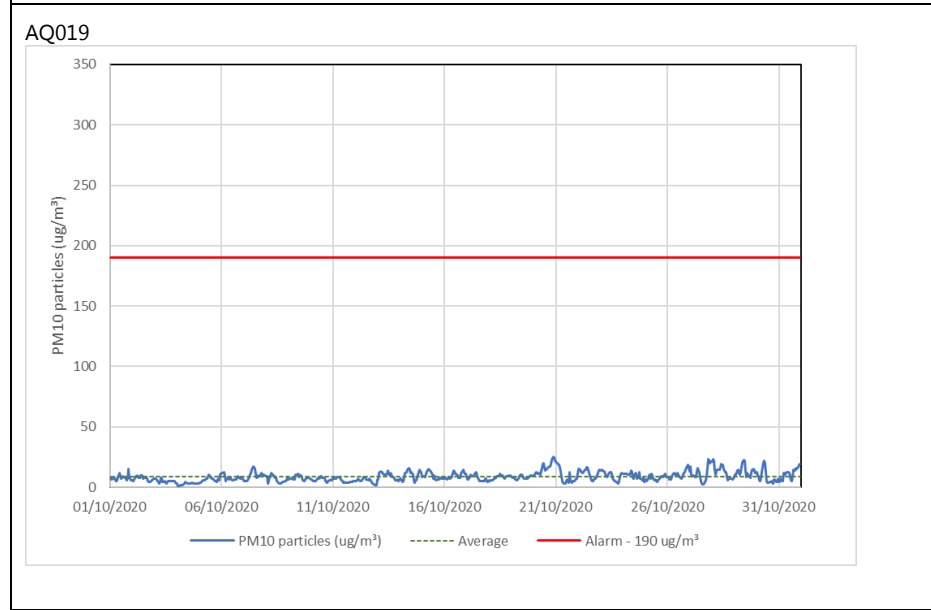
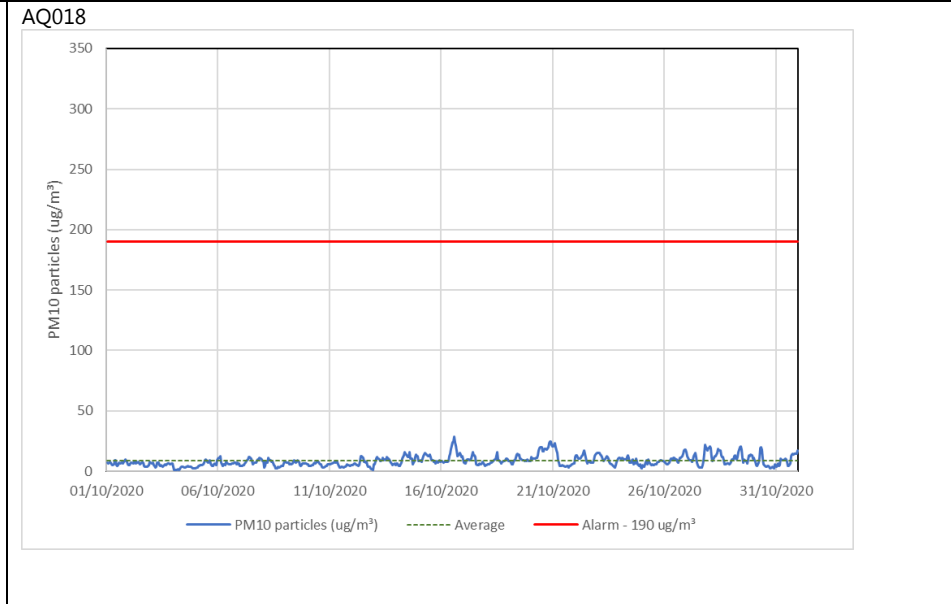
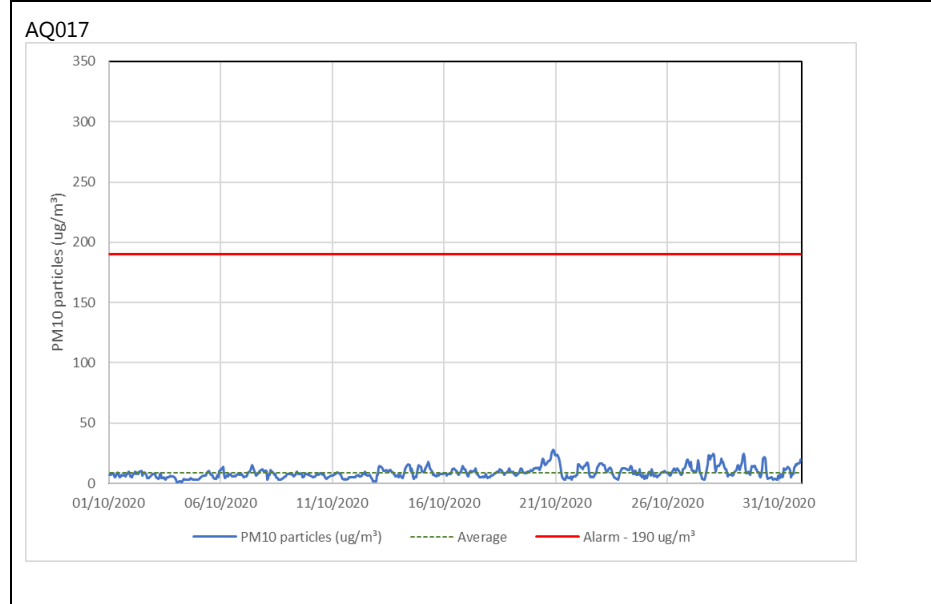
AQ015



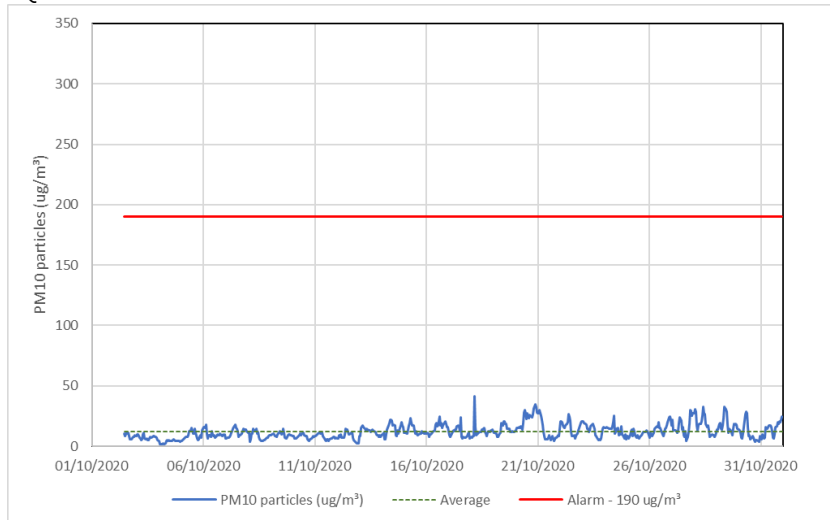
AQ016







AQ021



## Appendix C – Air Quality Monitoring Results

Table 4: NO<sub>2</sub> monitoring locations around highways, NO<sub>2</sub> concentrations and monthly monitoring results with running mean for 2020 (µg/m<sup>3</sup>)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar <sup>1</sup>	Apr <sup>1</sup>	May <sup>1</sup>	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>2</sup>
HS2-000020BM5	Junction of St Chad's Street and Grays Inn Road	530436, 182929	56	51	No data			34	27	38	39				41
HS2-000020BM6	Brunswick Square	530321, 182268	55	57	No data										56
HS2-000020BM7	Chalton Street	529894, 182702	66	65	No data				Tube missing	36	Tube missing				56
HS2-000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	57	57	No data			40	32	42	51				47
HS2-000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	56	58	No data			38	25	43	45				44
HS2-000020BMA	Junction of Euston Road and Gower Street	529429, 182375	59	54	No data			33	30	39	51				44
HS2-000020BMB	Whitfield Street	529273, 182114	45	43	No data			26	19	29	32				32
HS2-000020BMC	Hampstead Road	529232, 182511	58	53	No data			Tube missing	48	69	69				59
HS2-000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	38	Tube missing	No data			24	14	23	28				25
HS2-000020BMH	Nash Street	528861, 182717	44	37	No data			Tube missing	21	27	32				32
HS2-000020BMJ	Junction on Robert Street and Stanhope Street	529080, 182698	39	33	No data			26	22	30	34				31

<sup>1</sup> Note: Due to the COVID-19 pandemic and government lockdown it was not possible to conduct diffusion tube air quality monitoring in March, April and May 2020.

<sup>2</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.



Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar <sup>1</sup>	Apr <sup>1</sup>	May <sup>1</sup>	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>2</sup>
HS2-000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	56	49	No data			38	36	43	49				45
HS2-000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	44	38	No data			23	19	28	30				30
HS2-000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	62	58	No data			40	39	Tube missing					50
HS2-000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	45	41	No data			28	26	34	38				35
HS2-000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	51	43	No data			32	25	40	46				39
HS2-000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	42	36	No data			24	21	30	32				31
HS2-000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	52	50	No data			39	29	47	45				44
HS2-000020BMT	Junction of Camden Road and Camden Street	529079, 184043	51	43	No data			34	28	42	47				41
HS2-000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	45	No data				29	24	38	42				36
HS2-000020BMV	Primrose Hill Road	527538, 184250	44	38	No data			22	18	27	38				31
HS2-000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081	Tube missing								47				47
HS2-000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	82	61	No data			56	47	57	63				61
HS2-000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	42	30	No data				20	25	27				29

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar <sup>1</sup>	Apr <sup>1</sup>	May <sup>1</sup>	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>2</sup>
HS2-000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	33	25	No data			19	13	21	25				22
HS2-000020BNH	Junction of Parkway and Albert Street	528763, 183720	46	35	No data			29	24	29	37				32
HS2-000020BNN	Lincoln's Inn Fields	530744, 181308	41	41	No data			20	18	Tube missing	26				30
HS2-000020BNQ	Camley Street	529735, 183737	Tube missing	31	No data			27	Tube missing		33				29
HS2-000020BNY	Junction of Mill Lane and Hillfield Road	524839, 185136	45	41	No data			29	Tube missing	29	40				36
HS2-000020BNZ	Mansfield Road	528050, 185508	40	33	No data			25	20	25	31				29
HS2-000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	58	51	No data			47	36	49	34				48
HS2-000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	48	45	No data			27	22	30	31				34
HS2-000020BPB	Camden High Street	528966, 183735	65	54	No data			50	15	57	69				48
HS2-000020BPC	Castlehaven Road	528788, 184591	43	36	No data			24	52	27	28				37
HS2-000020BPD	Prince of Wales Road	528571, 184683	39	27	No data			20	13	22	25				24
HS2-000020BPE	Haverstock Hill	527710, 184749	52	41	No data			33	24	34	36				37
HS2-000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	47	33	No data			27	18	30	33				31
HS2-000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	56	50	No data			31	27	36	38				40
HS2-000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	50	37	No data			31	24	35	42				36
HS2-000020BPX	Netley Street	529177, 182625	34	28	No data			29	17	28	34				27



Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar <sup>1</sup>	Apr <sup>1</sup>	May <sup>1</sup>	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>2</sup>
HS2-000020BPY	Stanhope Street	529060, 182947	40	29	No data			22	15	25	27				26
HS2-000020BPZ	Albany Street	528790, 182923	44	36	No data			24	19	No data	32				31
HS2-000020BQ0	Werrington Street	529493, 183113	42	36	No data			22	16	23	27				28
HS2-000020BQ1	Polygon Road	529574, 183045	44	35	No data			23	16	25	27				29
HS2-000020BQ2	Alexandra Place	526320, 183980	39	31	No data			21	14	23	29				26
HS2-000020BQ3	Harrington Square	529228, 183172	50	38	No data			35	28	36	28				37
HS2-000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	44	36	No data			25	20	28	45				31
HS2-000020BQ5	Adelaide Road	527713, 184392	Tube missing	40	No data			25	19	31	31				29
HS2-000020BQ6	Mornington Terrace	528836, 183474	39	30	No data			20	16	22	32				25
HS2-000020BQ7	Arlington Road	529009, 183479	40	33	No data			24	17	25	26				28
HS2-000020BQ8	Clarkson Row	529024, 183213	39	31	No data			20	16	22	29				26
HS2-000020BQ9	Park Village East	528923, 183121	37	29	No data			21	16	22	27				25
HS2-000020BQA	Eversholt Street	529386, 183132	60	48	No data			35	29	38	26				42
HS2-000020BQB	Junction of Harrington Street and Varndell Street	529147, 182816	41	30	No data			23	16	25	47				27
HS2-000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	47	37	No data			32	21	33	28				34
HS2-000020BQD	Drummond Crescent	529648, 182856	Tube missing	42	No data			27	21	29	40				30
HS2-000020BQJ	Grafton Way	529380, 182225	55	54	No data			36	33	43	38				44

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar <sup>1</sup>	Apr <sup>1</sup>	May <sup>1</sup>	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean <sup>2</sup>	
HS2-000020BQL	Delancey Street	528768, 183581	44	No data				33	26	36	47				35	
HS2-000020BQR	Lamp post on Park Village East	528682, 183505	37	33	No data			21	19	26	31				27	
HS2-000020BQS	Opposite Maria fidelis school on Phoenix Road	529670, 182982	40	36	No data			21	18	24	32				28	
HS2-000020BQT	Drummond Street	529385, 182581	47	35	No data			25	19	28	30				31	
HS2-000020BQX	Lamp post on Brunswick Square	530344, 182236	No data						28	22	27	32				26
HS2-000020BP4	Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station	526633, 184392	54	Tubes missing	No data			41	35	50	51				45	
HS2-000020BP5	Triplicate site next to the Euston Road roadside automatic monitoring stations	529895, 182657	69	67	No data			54	35	49	56				55	
HS2-000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	44	43	No data			23	19	25	29				31	