

Air Quality and Dust Monitoring Monthly Report – **November** 2020

City of Westminster



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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A report prepared by EWCs and MWCCs on behalf of HS2 Ltd.

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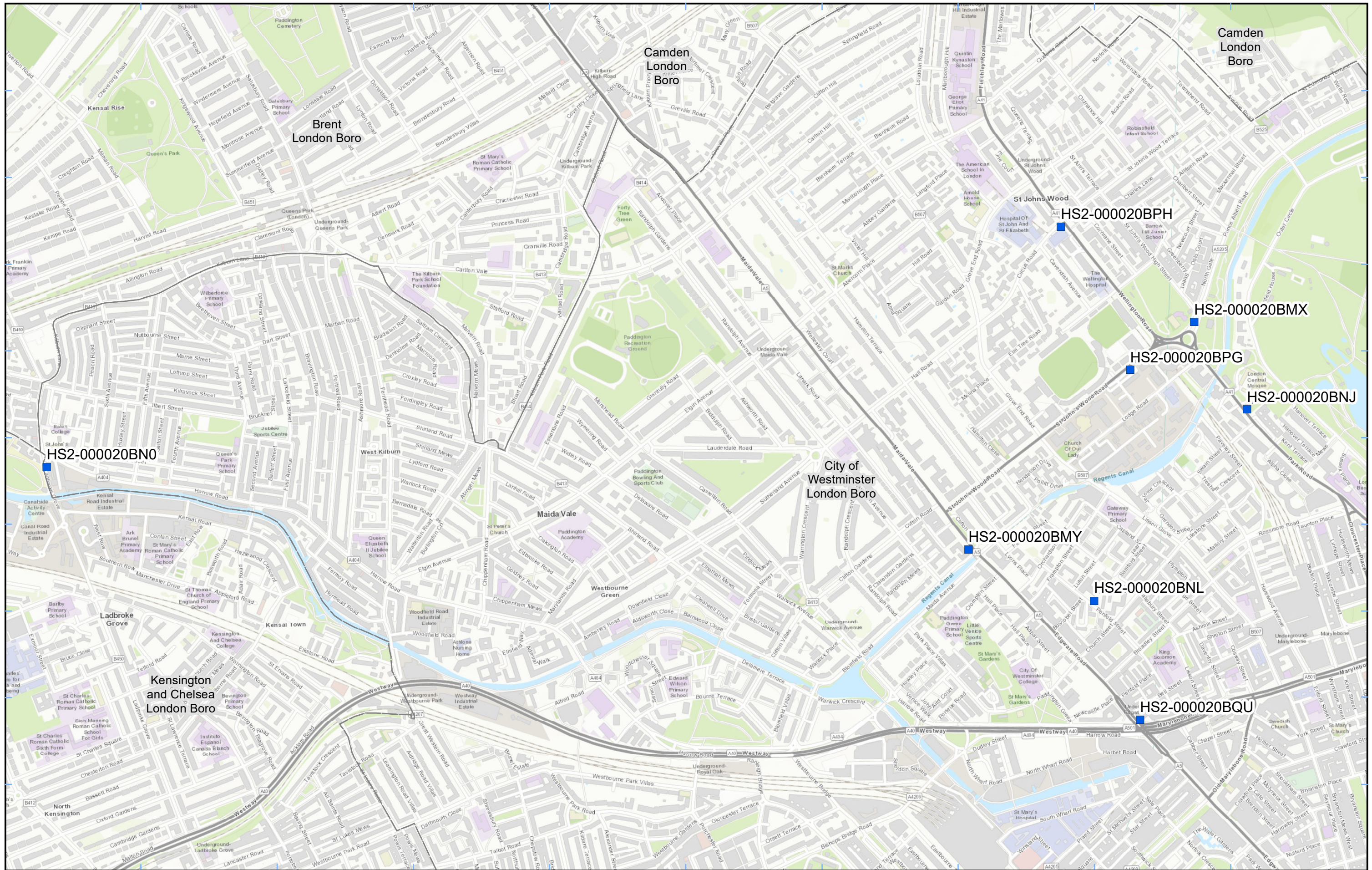
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Monthly Summary

- 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 monitoring undertaken in the City of Westminster (CoW) during October 2020.
- 1.1.2 Figure 1 and Figure 2 in Appendix A indicate the current air quality 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 There are no current worksites located within the CoW. Therefore, no dust monitoring has been carried out.
- 1.1.5 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) was undertaken at thirteen (13) locations around highways within the CoW as part of the management of air quality where significant effects may occur as a result of the scheme.
- 1.1.6 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.
- 1.1.7 NO₂ monitoring locations and results are presented in Appendix B, Table 1, together with the 2020 running mean.
- 1.1.8 There were no (0) complaints received, relating to air quality, during this reporting period (November 2020).

Appendix A –Monitoring Locations

Figure 1 and 2: Current monitoring locations within the CoW



Legend
■ Diffusion Tube
 District Borough Unitary Boundaries

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Map Number
 Map Name
Monitoring Locations In CoW (Sheet 1)
 City of Westminster

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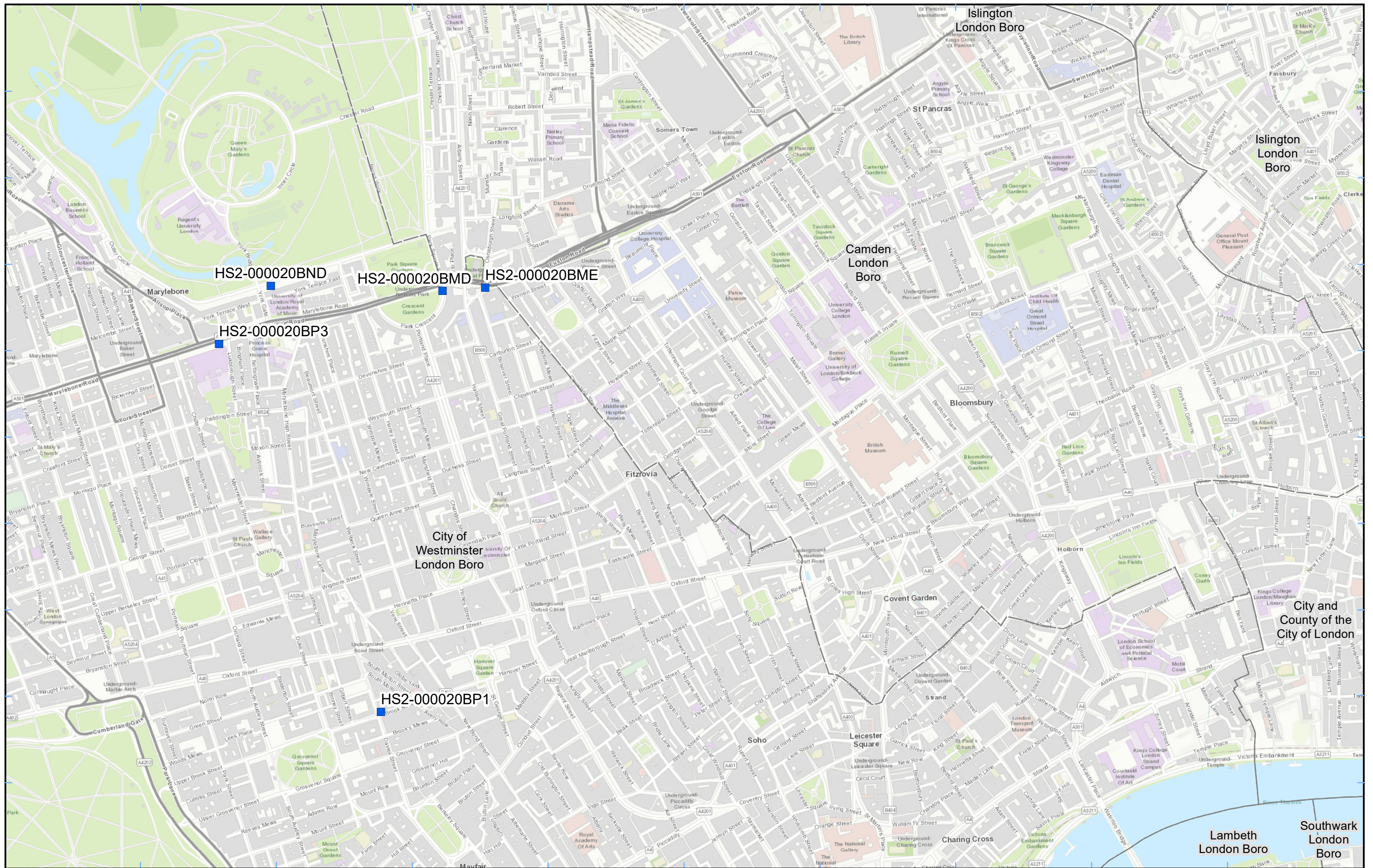
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Legend
■ Diffusion Tube
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Map Number
 Map Name
Monitoring Locations In CoW (Sheet 2)
 City of Westminster

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Appendix B – Air Quality Monitoring Results

Table 1: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2020 (µg/m³)

| Monitoring Site ID | Location description | Coordinates (X, Y) | Jan | Feb | Mar ¹ | Apr ¹ | May ¹ | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Mean ² |
|--------------------|---|--------------------|--------------|--------------|------------------|------------------|------------------|--------------|-----|-----|-----|-----|-----|-----|-------------------|
| HS2-000020BMD | Lamp post on Park Crescent Road | 528776, 182170 | 60 | Tube missing | No data | | | 40 | 30 | 47 | 48 | 44 | | | 45 |
| HS2-000020BME | Lamp post in between A501 and A4201 | 528901, 182180 | Tube missing | 69 | No data | | | 53 | 37 | 60 | 59 | 60 | | | 56 |
| HS2-000020BMX | Sign post by roundabout on A5205 | 527206, 182887 | 55 | 43 | No data | | | Tube missing | 24 | 31 | 36 | 38 | | | 38 |
| HS2-000020BMY | Lamp post between Blomfield Road and Edgware Road | 526549, 182226 | 57 | Tube missing | No data | | | 32 | 28 | 39 | 44 | 42 | | | 40 |
| HS2-000020BN0 | Lamp post on Ladbroke Grove | 523869, 182465 | 52 | 42 | No data | | | 42 | 22 | 47 | 46 | 42 | | | 42 |
| HS2-000020BND | Outer Circle Regent's Park | 528276, 182185 | 45 | 39 | No data | | | Tube missing | 18 | 22 | 28 | 31 | | | 30 |

¹ Note: Due to the Covid-19 pandemic and government lockdown it was not possible to conduct diffusion tube air quality monitoring during March, April and May 2020.

² 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 ¹ | Apr ¹ | May ¹ | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Mean ² |
|--------------------|--|--------------------|-----|-----|------------------|------------------|------------------|-----|--------------|-----|-----|-----|-----|-----|-------------------|
| HS2-000020BNJ | Light post on Park Road | 527359, 182633 | 58 | 49 | No data | | | 35 | Tube missing | 35 | 39 | 41 | | | 43 |
| HS2-000020BNL | Lamp post on Penfold Street | 526914, 182077 | 47 | 37 | No data | | | 25 | 19 | 27 | 33 | 33 | | | 32 |
| HS2-000020BP1 | Lamp post on Brook Street | 528597, 180942 | 56 | 48 | No data | | | 28 | 22 | 37 | 43 | 42 | | | 39 |
| HS2-000020BPG | Lamp post on St John's Wood Street | 527019, 182748 | 45 | 33 | No data | | | 30 | 16 | 30 | 31 | 31 | | | 31 |
| HS2-000020BPH | Lamp post St John's Wood Terrace | 526818, 183164 | 48 | 41 | No data | | | 26 | 20 | 28 | 34 | 36 | | | 33 |
| HS2-000020BQU | Lamp post outside Edgware Road Station | 527048, 181731 | 65 | 51 | No data | | | 44 | 35 | 54 | 63 | 50 | | | 52 |
| HS2-000020BP3 | Triplicate site next to the Marylebone Road kerbside automatic monitoring stations | 528125, 182016 | 76 | 74 | No data | | | 43 | 36 | 46 | 49 | 65 | | | 56 |