

Air Quality and Dust Monitoring Monthly Report – March 2022 Birmingham City Council



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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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 dust monitoring undertaken within Birmingham City Council (BCC) during March 2022.
- 1.1.2 Figure 1 to 3 in Appendix A indicates the current worksites together with the dust monitoring locations for March 2022.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly 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 during November 2018 and are due to be completed in 2022. The current worksites, as presented in Appendix A, Figure 1 to 3, include:

Curzon Street Station

- Ground remediation; and
- Utility diversion works.

Washwood Heath

- Setup of the compound area and haulage routes; and
- Demolition and crushing of existing concrete foundations.

Bromford East Tunnel Portal (BETP)

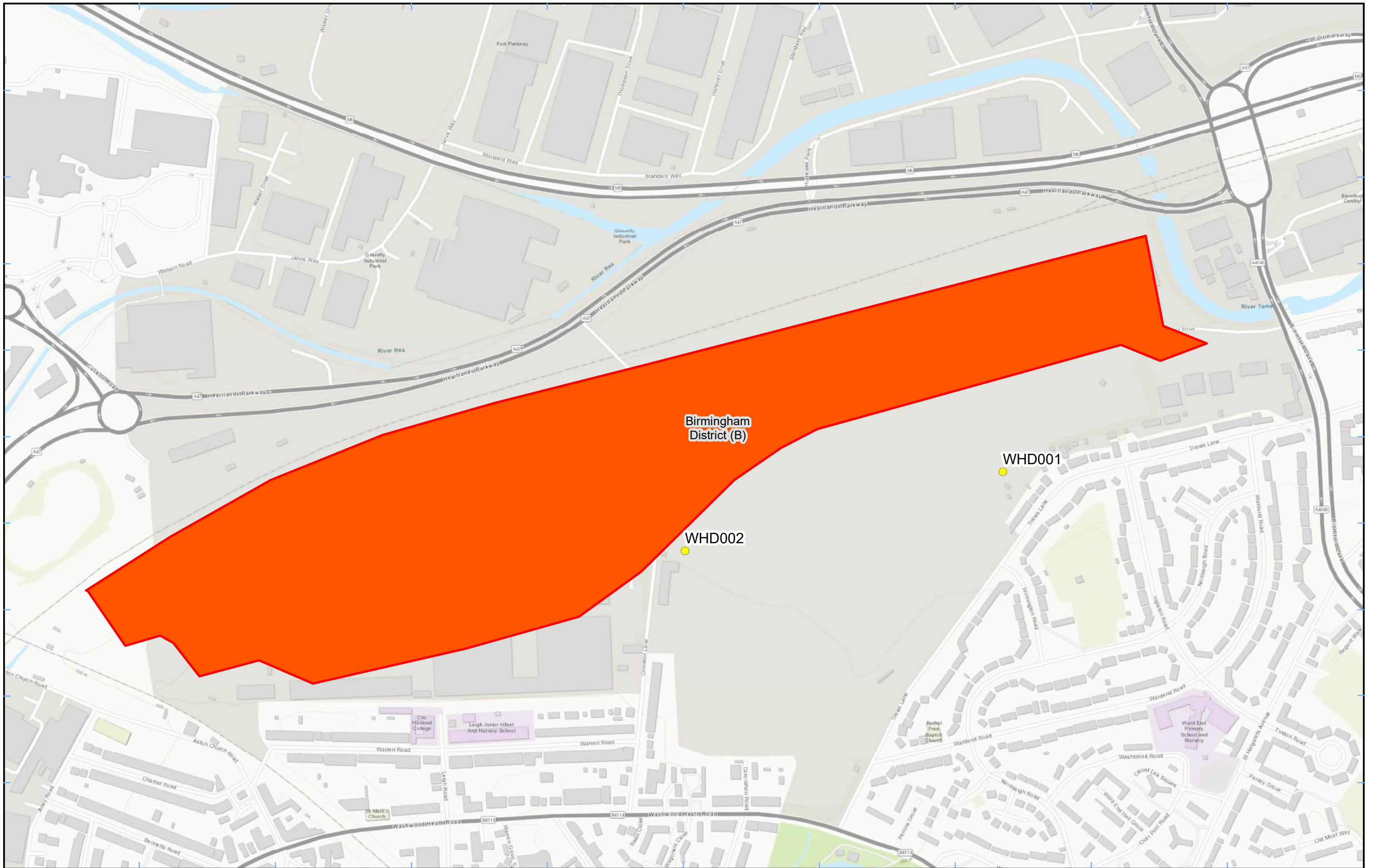
- On site slurry treatment

- 1.1.5 Six (6) dust monitors are installed around the worksites, where works are underway. These sites returned a medium to high dust risk rating.
- 1.1.6 Dust monitoring locations and results for March 2022 are presented in Appendix B, Table 1 together with line charts of monthly data from each dust monitor, presented in Figure 4. 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 PM₁₀ concentrations of 190 µg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (November 2018)*' has been applied.
- 1.1.8 There were no (0) dust trigger alerts recorded during the monitoring period (March 2022).
- 1.1.9 Data capture was below 90% for monitor Dust #753 due to power supply issues.
- 1.1.10 No (0) complaints were received during this reporting period (March 2022).

Appendix A –Worksite and Dust Monitoring Locations

Figures 1-3: Worksites and monitoring locations within the BCC



Legend
 Dust Monitor
 Worksite
 District Borough Unitary Boundaries

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Map Number
 Map Name
**Worksite and Monitoring Locations
 In BCC (Sheet1)**
 Birmingham City Council



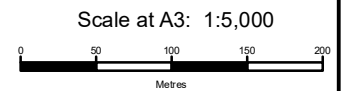
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Legend
 Dust Monitor District Borough Unitary Boundaries
 Worksite

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Map Number
 Map Name
**Worksite and Monitoring Locations
 In BCC (Sheet2)**
 Birmingham City Council



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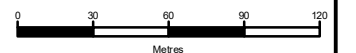


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- Legend**
- Dust Monitor
 - District Borough Unitary Boundaries

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Map Number	
Map Name	Monitoring Locations In BCC (Sheet 3)
Birmingham City Council	



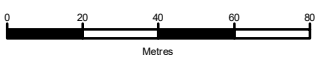
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Metres

Date: 26/04/22

Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and March 2022 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	Data capture rate (%)
Dust #530 (old #555)	407702, 287079	Curzon Street Station HS2 Site	H	N/A	N/A	13.4	0.1	70.0	0	99.7
Dust #753	407619, 287006	Curzon Street Station HS2 Site	H	N/A	N/A	11.0	0.1	54.9	0	73.1
WHD001	411221, 289245	Washwood Heath Depot, near receptors on Drews Lane	M	Yes	No	13.0	0.2	54.8	0	99.9
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	M	Yes	No	1.6	0.1	47.3	0	96.8
BETP001	416620, 290808	Bromford East Tunnel Portal, Twisted Oak Stables	M	Yes	No	17.8	0.6	83.0	0	99.9
BETP002	417467, 290649	Bromford East Tunnel Portal, Attleboro Lane	M	Yes	No	15.6	0.1	58.4	0	99.2

Figure 2: Construction dust hourly mean indicative PM₁₀ concentration for all dust monitors

