

Air Quality and Dust Monitoring Monthly Report - November 2022

Birmingham City Council



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 November 2022.
- 1.1.2 Figures 1 to 3 in Appendix A indicates the current worksites together with dust monitoring locations for November 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 worksites as presented in Appendix A, Figures 1-3, include:

Curzon Street Station

- Ground remediation:
- Utility diversion works; and
- Pier construction for viaducts following piling.

Washwood Heath (Sublot 4)

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

Bromford East Tunnel Portal (BETP) (Sublot 1B)

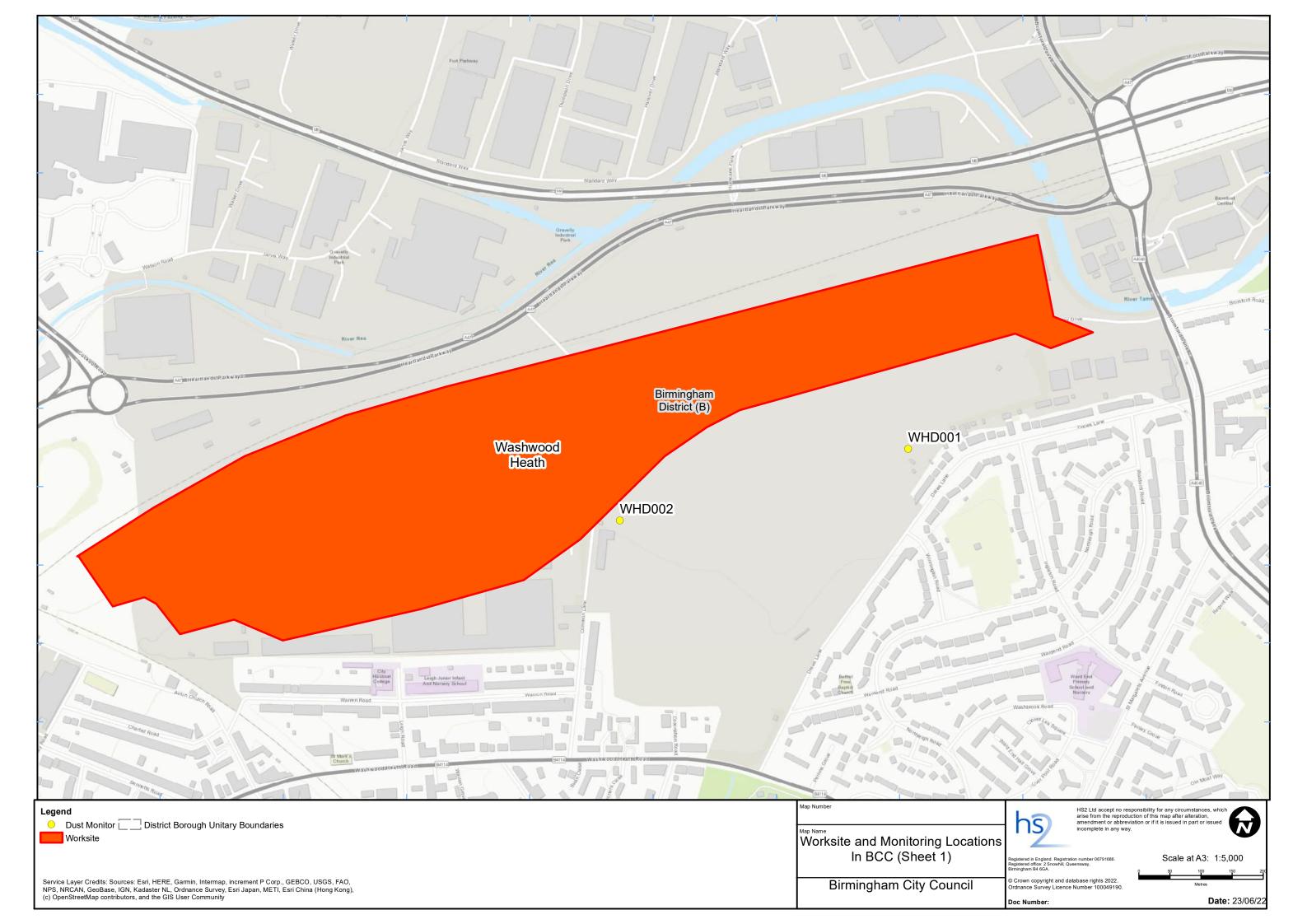
- On-site slurry treatment.
- 1.1.5 Six (6) dust monitors are installed at the worksites, where works are underway. These sites returned a medium to high dust risk rating.
- 1.1.6 Dust monitoring locations and results for November 2022 are presented in Appendix B, Table 1 together with line charts for November 2022 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

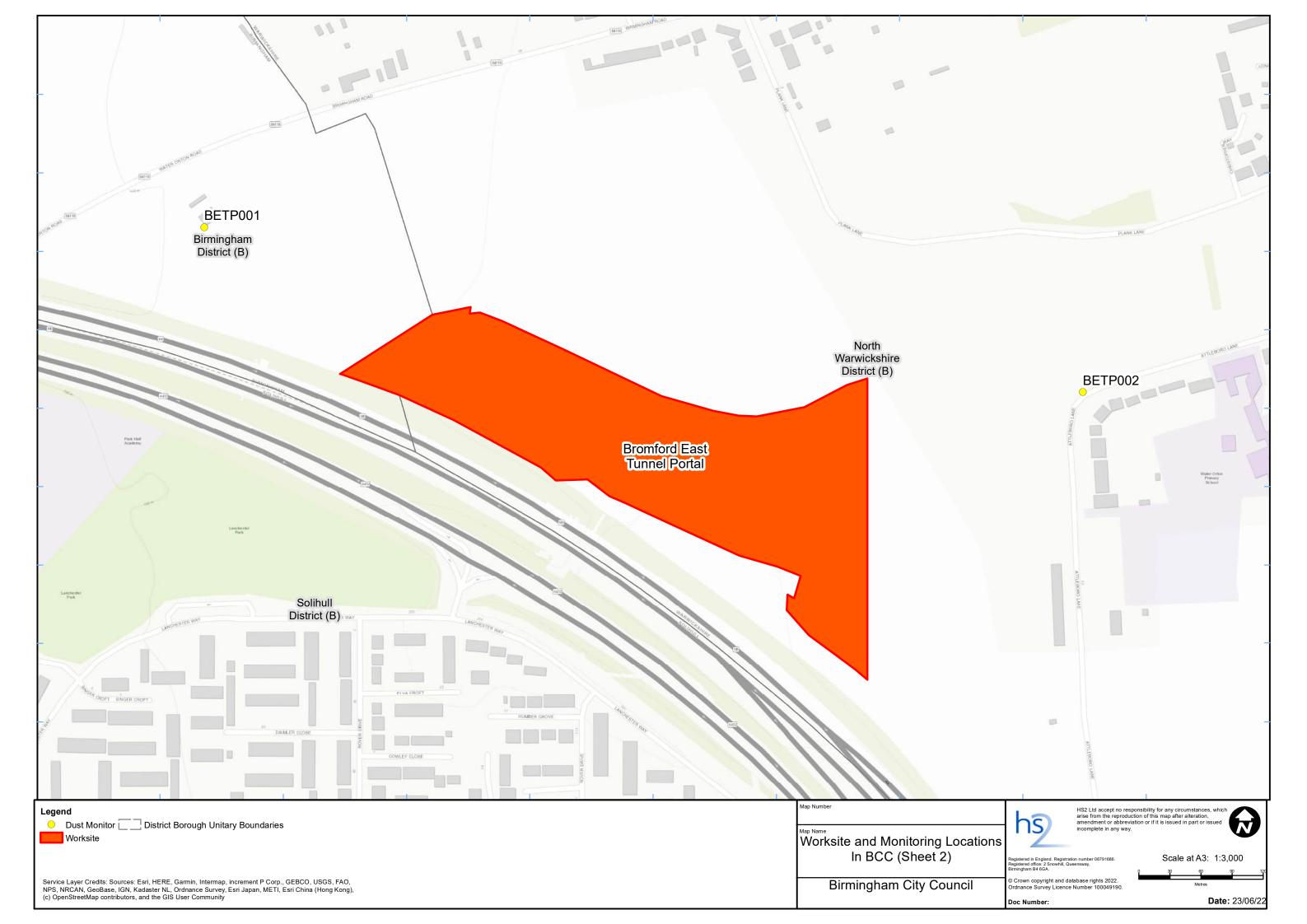
uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.

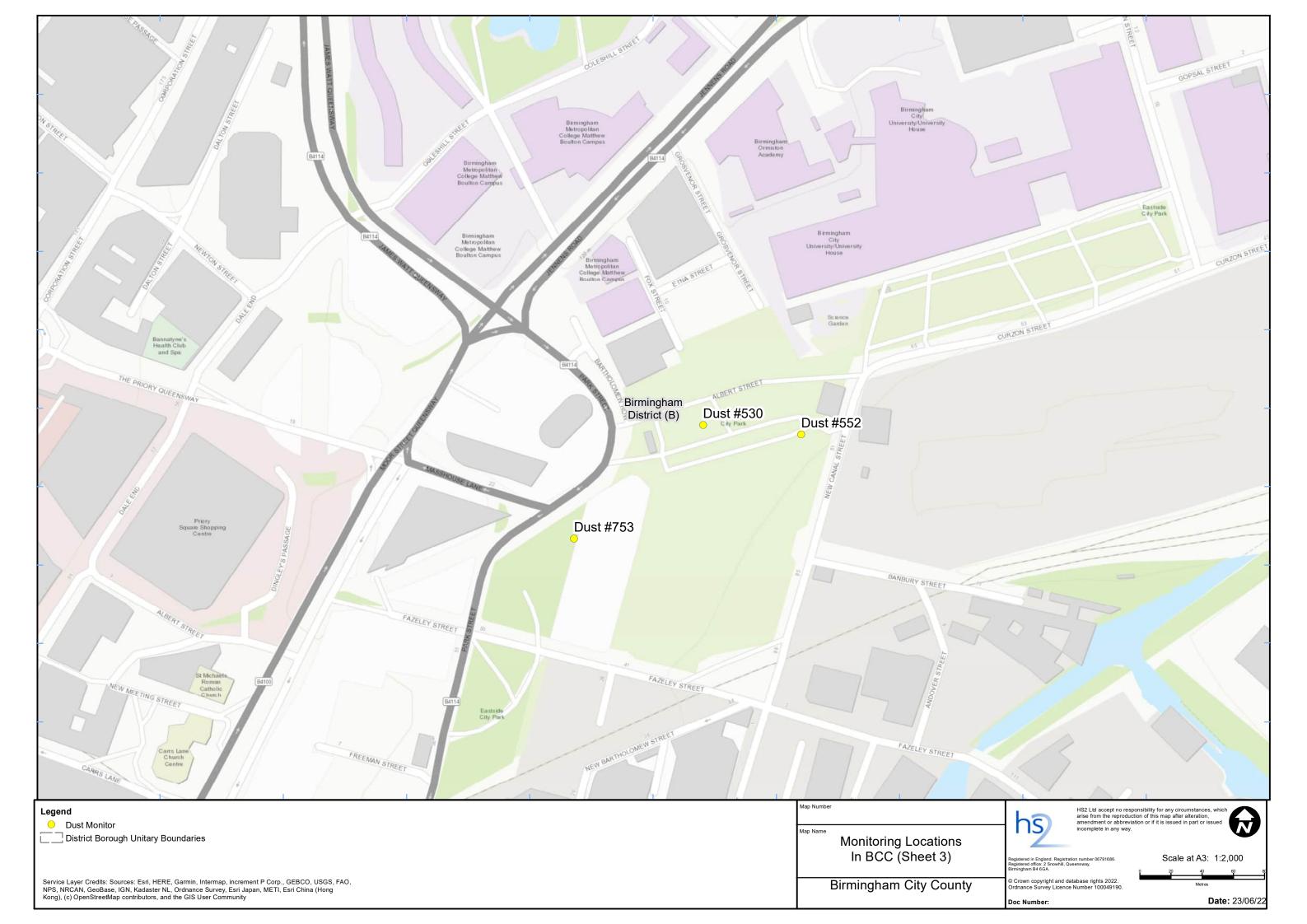
- 1.1.7 The trigger level for PM_{10} concentrations of 190 μ g/m³, over a 1-hour period, in accordance with the updated guidance document 'Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (November 2018)' has been applied.
- 1.1.8 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 2.
- 1.1.9 Data capture was below 90% for multiple monitors due to power disconnection on site
- 1.1.10 No (0) complaints were received during the reporting period (November 2022).

Appendix A - Worksite and Dust Monitoring Locations

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







Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and November 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/m³)	Minimum 1-hour 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	Data capture rate (%)
Dust #530 (old #555)	407702, 287079	Curzon Street Station HS ₂ Site	н	N/A	N/A	6.0	0.1	51.6	0	95.7
Dust #753	407619, 287006	Curzon Street Station HS2 Site	Н	N/A	N/A	5.5	0.1	27.5	0	81.3
Dust #552	407765, 287073	Curzon Street Station HS2 Site	Н	N/A	N/A	8.4	0.1	39.6	0	77.6
WHD001	411221, 289245	Washwood Heath Depot, near receptors on Drews Lane	М	Yes	No	9.6	0.3	142.7	0	100.0
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	М	Yes	No	8.8	0.2	162.9	0	100.0
BETP001	416719, 290767	Bromford East Tunnel Portal, Twisted Oak Stables	М	Yes	No	8.3	0.1	193.0	1	99.3
BETP002	417406, 290605	Bromford East Tunnel Portal, Attleboro Lane	M	Yes	No	6.7	0.1	149.0	0	99.9

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Table 2: Summary of exceedances during period (November 2022)

Monitoring Site ID	Period of trigger alert &	Investigation	Outcomes / Resolution / Remedial measures
	Concentration recorded		implemented
BETP001	05/11/2022: 21:00 – 21:59; 193.0 μg/m ³	During this time, there were no construction activities in the vicinity of the monitor, and it is considered that this exceedance is due to smoke generated from fireworks and bonfires within the local area. Similar peaks were recorded at approximately the same time at all monitors reported here, and across the route.	N/A

Figure 4: Construction dust hourly mean indicative PM₁₀ concentration for all dust monitors

