

Air Quality and Dust Monitoring Monthly Report – June 2022

North Warwickshire Borough Council



Department for Transport

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

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Monthly Summary

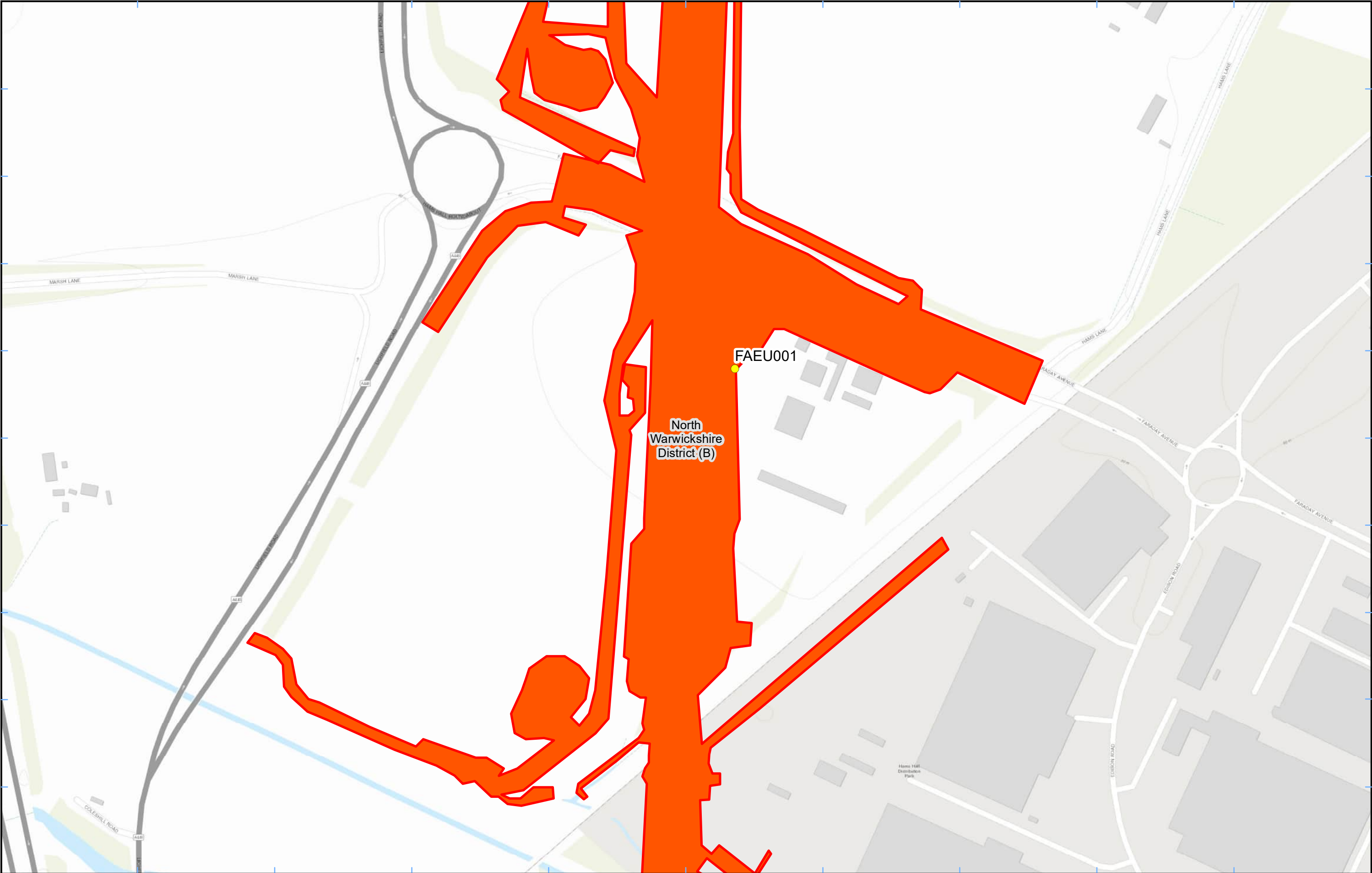
- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality and dust monitoring undertaken in North Warwickshire Borough Council (NWBC) during June 2022.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location for June 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 worksite at The Faraday Avenue Embankment and Underbridge site (Sublot 7), as presented in Appendix A, Figure 1, includes Bell mouth and noise barrier construction.
- 1.1.5 One (1) dust monitor is installed at the worksite, where works are underway. This site returned a medium dust risk rating.
- 1.1.6 Dust monitoring location and results are presented in Appendix B, Table 1, together with a line chart of monthly data from the dust monitor presented in Figure 2. 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 mitigations.
- 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 – (October 2018)*' has been applied.
- 1.1.8 There were no (0) dust trigger alerts recorded during the monitoring period (June 2022).
- 1.1.9 Table 1 provides a summary of the complaint information related to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during June 2022 in NWBC

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-22-43697-C	N/A	Dust cloud evident at around 5pm 10/06/2022.	<p>An investigation was conducted and the stakeholder advised that mitigation measures are employed wherever possible to reduce dust emissions from work sites as far as is reasonably practicable. The below measures are being adopted in the vicinity of Attleboro Lane to reduce dust emissions:</p> <ul style="list-style-type: none"> • Main haul routes have been tarmacked and are swept and damped down regularly. This also includes the pedestrian crossing along Attleboro Lane • Speed limits are in place along our internal haul roads and enforced by our onsite team • Mist Cannons are located at high-risk areas (such as the lime treatment area) • Lime stabilisation activities have been moved away from residential properties to reduce impacts as far as possible • The type of lime used is granular to reduce lift off whilst handling <p>Stakeholder was notified that a dust monitor in December 2021 to allow the contractor to continually analyse dust impacts in the area. This monitoring is being carried out using TSi DustTrak continuous monitors and is located near the boundary of the work site, which is closer to the sources of dust than Attleboro Lane's residential properties. Levels for 5pm on June 8th checked with the environmental team and the levels of dust at this time were low and not near the exceedance level.</p> <p>The contractors continue to identify new ways to help ensure that dust emissions are managed as effectively as possible; as part of this, they are planning to construct an earth bund to the south of the lane's residential properties, which will help screen noise and dust. They are reviewing the potential installation of an additional dust monitor to the south of the residential properties.</p>

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and monitoring locations within the NWBC



Legend

Dust Monitor District Borough Unitary Boundaries

Worksite

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Map Number
Map Name
Worksite and Monitoring Locations In NWBC (Sheet 1)
North Warwickshire Borough

Registered in England. Registration number 06791686.
Registered office: 2 Snowhill, Queensway,
Birmingham B4 6GA.

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Doc Number:

Scale at A3: 1:3,000

Date: 28/04/22

Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and June 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 (%)
FAEU001	419164, 292273	Faraday Avenue Embankment and Underbridge, at Orchard Cottage	M	Yes	No	6.4	1.1	33.1	0	100.0

Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitor FAEU001

