

## Air Quality and Dust Monitoring Monthly Report – July 2021

**Stratford-on-Avon District** Council



## Department for Transport

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

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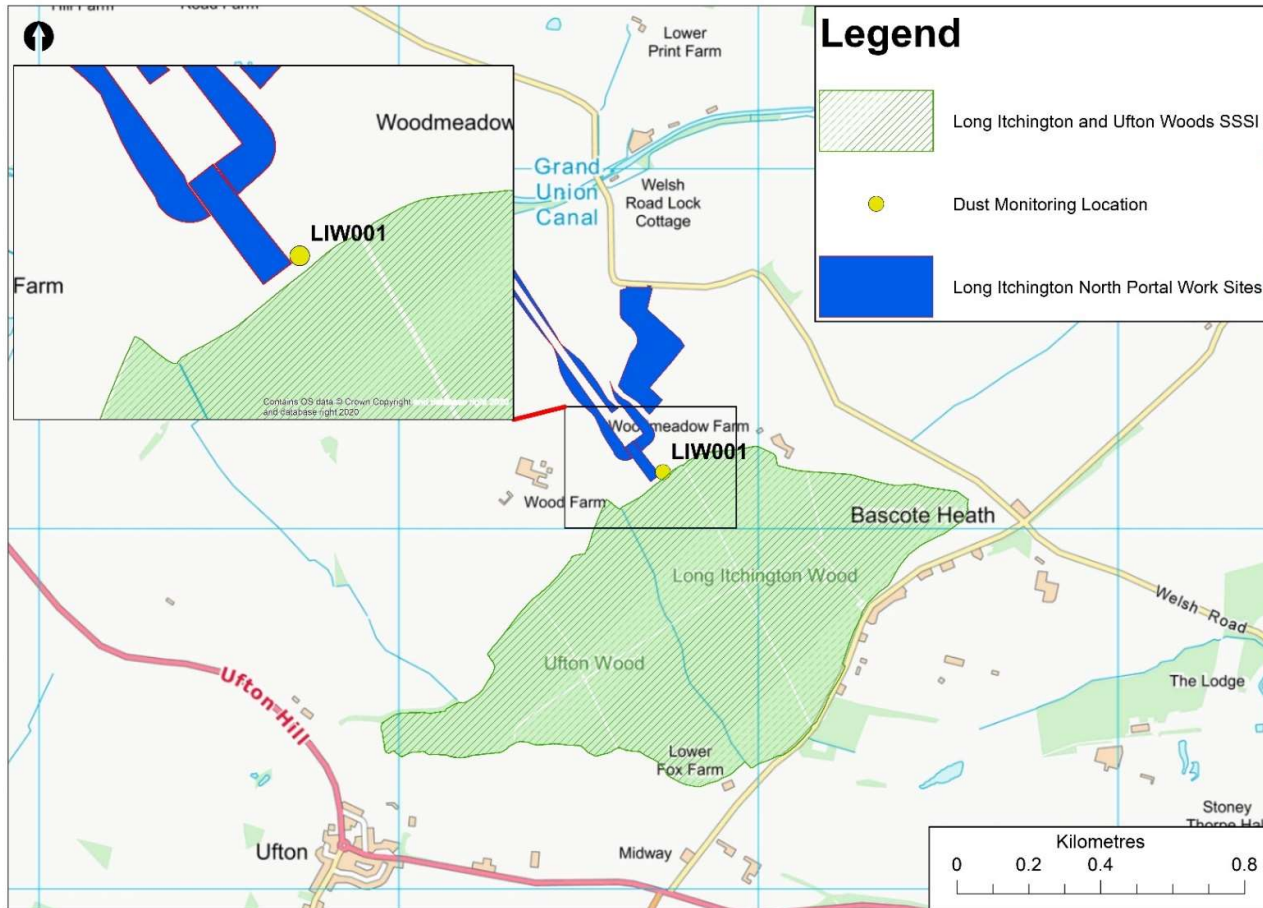
# Monthly Summary

- 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 the Stratford-on-Avon District Council during July 2021.
- 1.1.2 Figure 1 in Appendix A presents the current worksites together with the dust monitoring location for July 2021.
- 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 works at Long Itchington Wood North Portal site, within Stratford-on-Avon District Council, commenced in April 2020 and is expected to be completed by 2025. The Long Itchington Wood North Portal worksite as presented in Appendix A, Figure 1, includes: construction of the portal slab, assembly of the Tunnel Boring Machine (TBM), and assembly of the Ainscough Crane.
- 1.1.5 One dust monitor is installed at the Long Itchington Wood North Portal site. This site returned a medium dust risk rating for ecological impacts relating to the Long Itchington and Ufton Woods Site of Special Scientific Interest (SSSI). As such, the dust monitor has been located at the boundary of the SSSI as close to the North Portal tunnel boring works as practicable.
- 1.1.6 Dust monitoring location and results for July 2021 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 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 no (0) dust trigger alerts recorded during the reporting period (July 2021).

1.1.9 There were no (0) complaints, relating to dust or air quality, received during this reporting period (July 2021).

# Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations within Stratford-on-Avon District Council during July 2021



## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and July 2021 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 (%) |
|--------------------|-------------------|---|---------------------------|--------------------------------------|---|---|--|--|---|------------------|
| LIW001             | 438656, 263180    | Long Itchington Wood North Portal, at boundary with Long Itchington and Ufton Woods SSSI. | M                         | Yes                                  | No  | 5.3   | 0.3  | 34.8   | 0   | 100.0            |

Figure 2: Construction dust 1-hour mean mean indicative PM<sub>10</sub> concentration for dust monitor LIW001

