

Air Quality and Dust Monitoring Monthly Report – March 2022

West Northamptonshire 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 dust monitoring undertaken in the West Northamptonshire District Council (WNDC) during March 2022.
- 1.1.2 Figures 1 and 2 in Appendix A presents 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 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 and 2 include:

Twyford to Greatworth

- Stone deliveries;
- A43 Compound development; and
- Drainage.

Greatworth to Southam

- Excavation for chipping warden green tunnel;
- Topsoil stripping and material movement;
- Established of site access road; and
- Chipping Warden Compound development.

Chipping Warden

- A361 Break from Highway;
- Topsoil stripping and material movement; and
- Established of site access road.

Lower Boddington worksite

- Topsoil stripping and material movement; and
- Established of site access road.

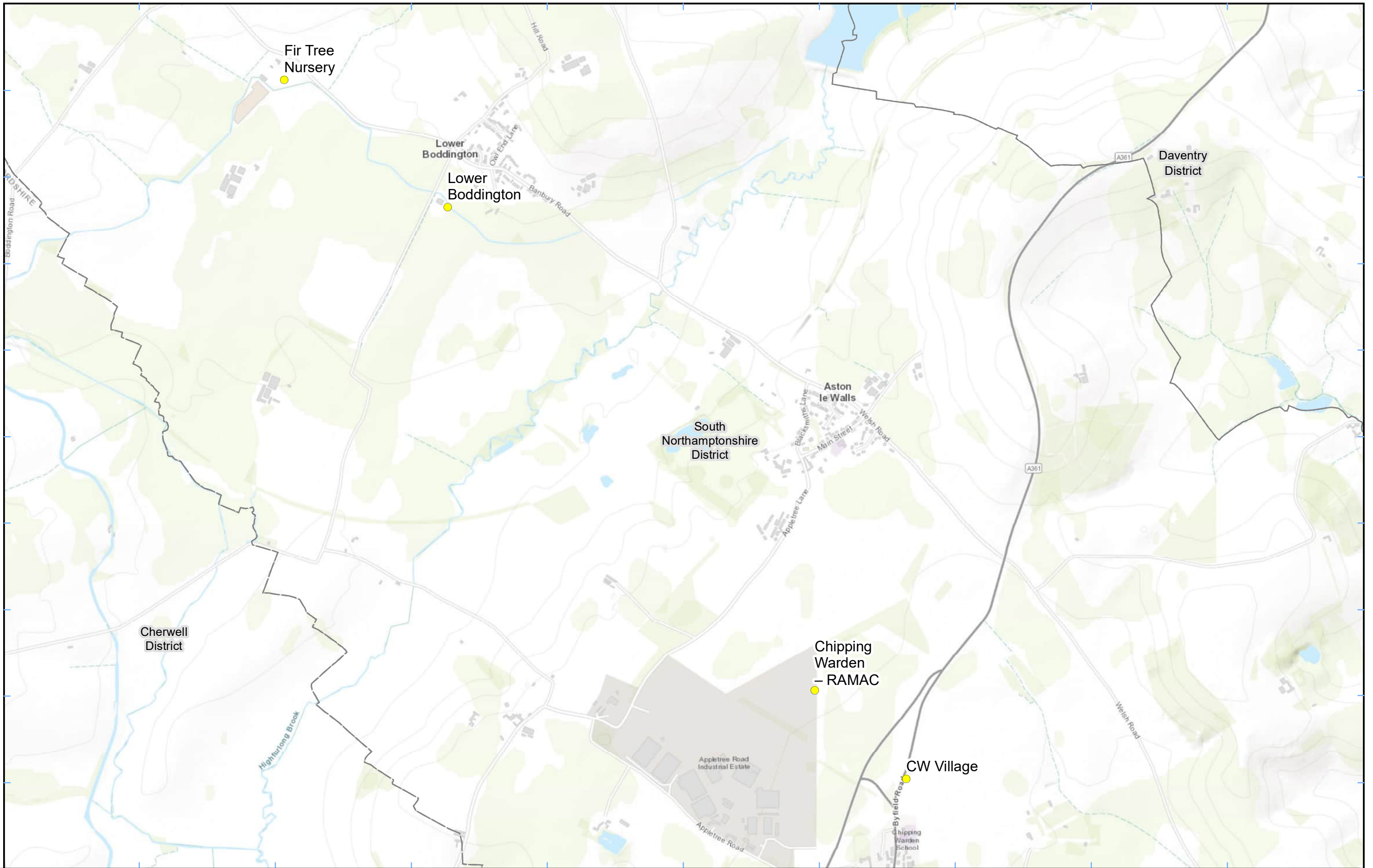
Fir Tree Nursery worksite

- Boddington Canal Feeder realignment

- 1.1.5 Dust monitoring locations and results are presented in Appendix B, Table 1, together with a line chart of monthly data from the dust monitor presented in Figure 3. 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.
- 1.1.6 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.
- 1.1.7 Four (4) dust risk monitors are installed around worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.8 No (0) dust trigger alerts recorded during the monitoring period (March 2022).
- 1.1.9 Data capture was below 90% for multiple monitors in March 2022 due to power supply issues and long-term damage from storms.
- 1.1.10 No (0) complaints were received during this reporting period.

Appendix A –Monitoring Locations

Figure 1 and 2: Worksite and monitoring locations within the WNDC



Legend
 ● Dust Monitor
 □ 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

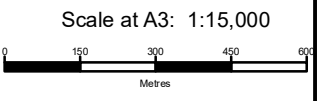
Map Number

Map Name
**Monitoring Locations
 In WNDC (Sheet 1)**

West Northamptonshire Council

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Legend

- Dust Monitor
- District Borough Unitary Boundaries


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Map Number

Map Name

**Monitoring Locations
In WNDC (Sheet 2)**

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Scale at A3: 1:3,000



Metres

Date: 26/04/22

Appendix B – Dust Monitoring Results

Table 2: 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	1-hour data capture (%)
Chipping Warden – RAMAC	449600, 249755	Chipping Warden, West Northamptonshire	M	Yes	Yes	12.2	1.0	37.0	0	32.4
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	25.7	1.0	109.0	0	17.1
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	-	-	-	-	0.0
A43	459609, 238944	A43, Brackley, West Northamptonshire	M	Yes	Yes	14.8	1.0	97.0	0	99.9
Fir Tree Nursery	447283, 252421	Fire Tree Nursery, West Northamptonshire	M	Yes	Yes	18.0	1.0	102.0	0	69.0

Figure 5: Continuous dust 1-hour mean indicative PM₁₀ concentration for all monitors

