

Air Quality and Dust Monitoring Monthly Report – January 2025

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 (WNDC) during January 2025.
- 1.1.2 Figure 1 and Figure 2 in Appendix A present the current worksites together with the dust monitoring locations.
- 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, Figure 1 and Figure 2, include:

Twyford to Greatworth

Radstone and Hall Farm

- Bulk Excavation
- Stockpile Management
- Site Access Road/ Haul Road use and maintenance
- Drainage
- Works associated with the permanent diversion of Radstone Road.
- Works associated with the temporary diversion of Radstone Road.
- Backfill underside of approach structures at Radstone Road Overbridge
- Ancillary Culvert Construction works
- AX15 Foundation works
- AX18 Deck construction, reinforcement and formwork.

Greatworth Hall

- Crushing and screening
- Excavate and replace at Greatworth South Cutting
- Main excavation works at Greatworth South Cutting
- Drainage works
- Approach structures reinforcement and formwork construction, and pier pile caps works at AN37
- Deck construction, reinforcement and formwork at AN14.
- Stockpile management.

Greatworth To Southam

Chipping Warden – RAMAC

- Chipping warden Green tunnel PCC erection and other structures activities
- Green Tunnel maintenance for PCC erection and other structures activities
- Chipping warden green tunnel – Structural backfill
- Chipping Warden earthworks Soil Swap area
- Bulk earthworks
- Site Access Road maintenance
- Utilisation of haulage road for moving material
- Chipping warden batching plant
- Chipping warden surface water sewer
- General maintenance
- Stockpile management
- Vegetation maintenance
- Site Access Road maintenance
- Compound maintenance
- Water management
- Ditch maintenance
- Plant maintenance.

Lower Boddington

- Boddington Highway works
- Banbury Road Overbridge: - Parapet Installation and Scaffolding installations
- Claydon Road Highways and Structure- Parapet stitching
- Chipping Warden Compound maintained near batching plant
- Footpath SM101 Green Overbridge- Reinforcement, formwork activities (Carney), and EKFB Lifting team beam installation.
- SM116A Underbridge - Wingwall frc work
- Cedar Farm Culvert - culvert installation
- Highfurlong Brook Viaduct: platform material removal
- Blackgrounds Farm new access track - area clearance and preparation for access.
- G2S central - Checking water management and pumping , T&M refuelling (0800-1600)
- Parapet Installation and Scaffolding installation.

Lower Thorpe

- Installation of control points.

1.1.5 Ten (10) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.

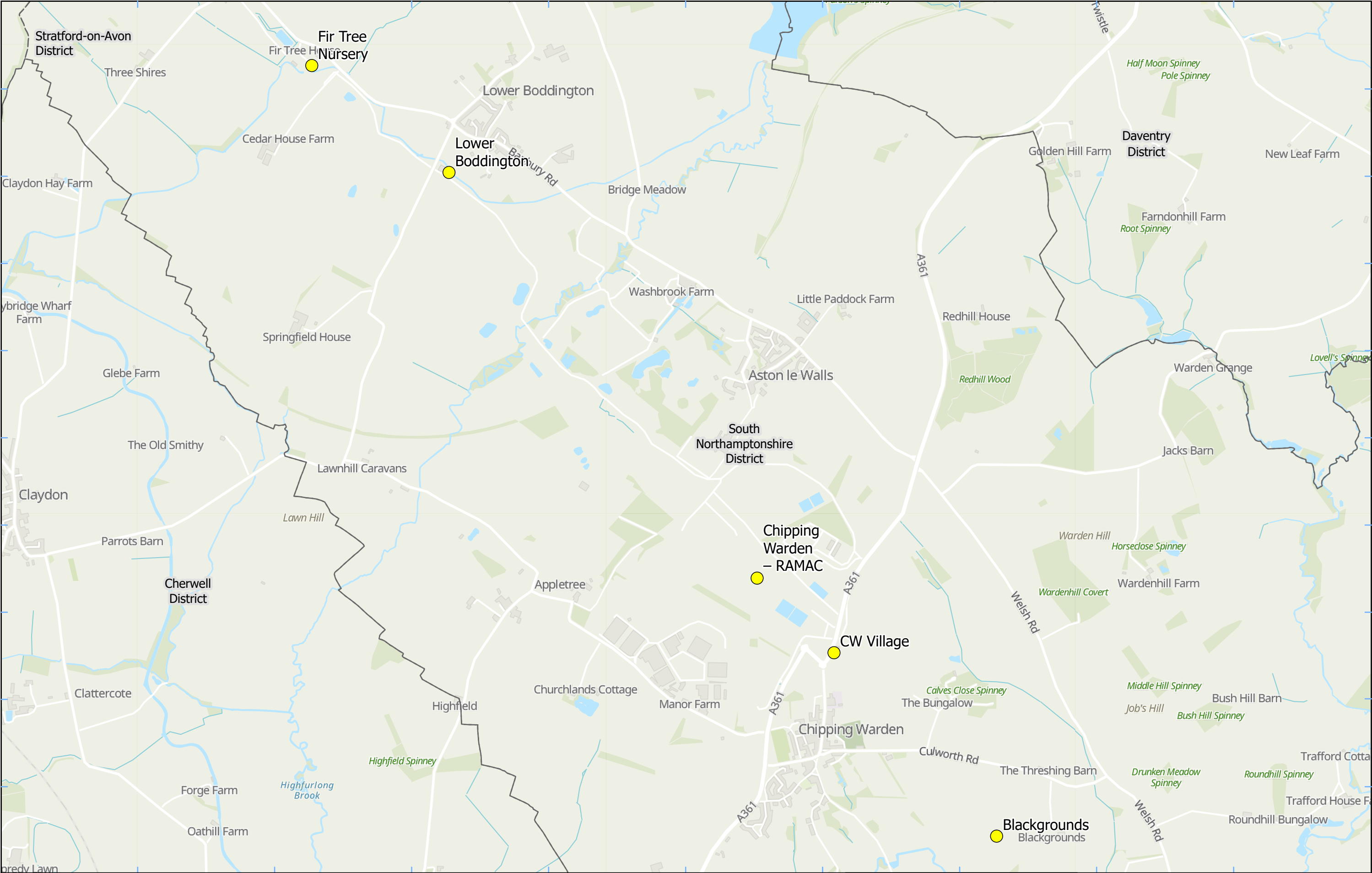
1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, presented in Figure 3. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative 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.

- 1.1.7 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 No (0) dust trigger alerts were recorded during the monitoring period (January 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Chipping Warden – RAMAC monitor - No data captured from 1st to 21st January due to faulty solar regulator and was replaced on 22nd January.
 - Chipping Warden Village monitor - Intermittent data capture during this month was due to battery fault.
 - Lower Boddington monitor - Intermittent data capture during this month was due to a battery fault.
 - Fir Tree Nursery monitor - Intermittent data capture during this month was due to a battery fault.
 - Greatworth Village monitor - Intermittent data capture was due to a battery fault throughout the month.
 - Lower Thorpe monitor - Intermittent data capture was due to a battery fault throughout the month.
 - Blackgrounds monitor - Low data capture was due to the shaded location of monitor causing insufficient charge to the battery.
 - Radstone monitor - Low data capture was due to a battery fault throughout the month. Access to location was difficult and unsafe to replace batteries at various times.
 - Hall Farm monitor - Low data capture during this month was due to battery fault.
 - Greatworth Hall monitor - Intermittent data capture during this month was due to a battery fault.
- 1.1.10 There were no (0) complaints received during the reporting period (January 2025).

Appendix A –Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within WND



Legend

 Dust Monitor

 District Borough Unitary Boundaries

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Map Number

Map Name

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

**West Northamptonshire District
Council**



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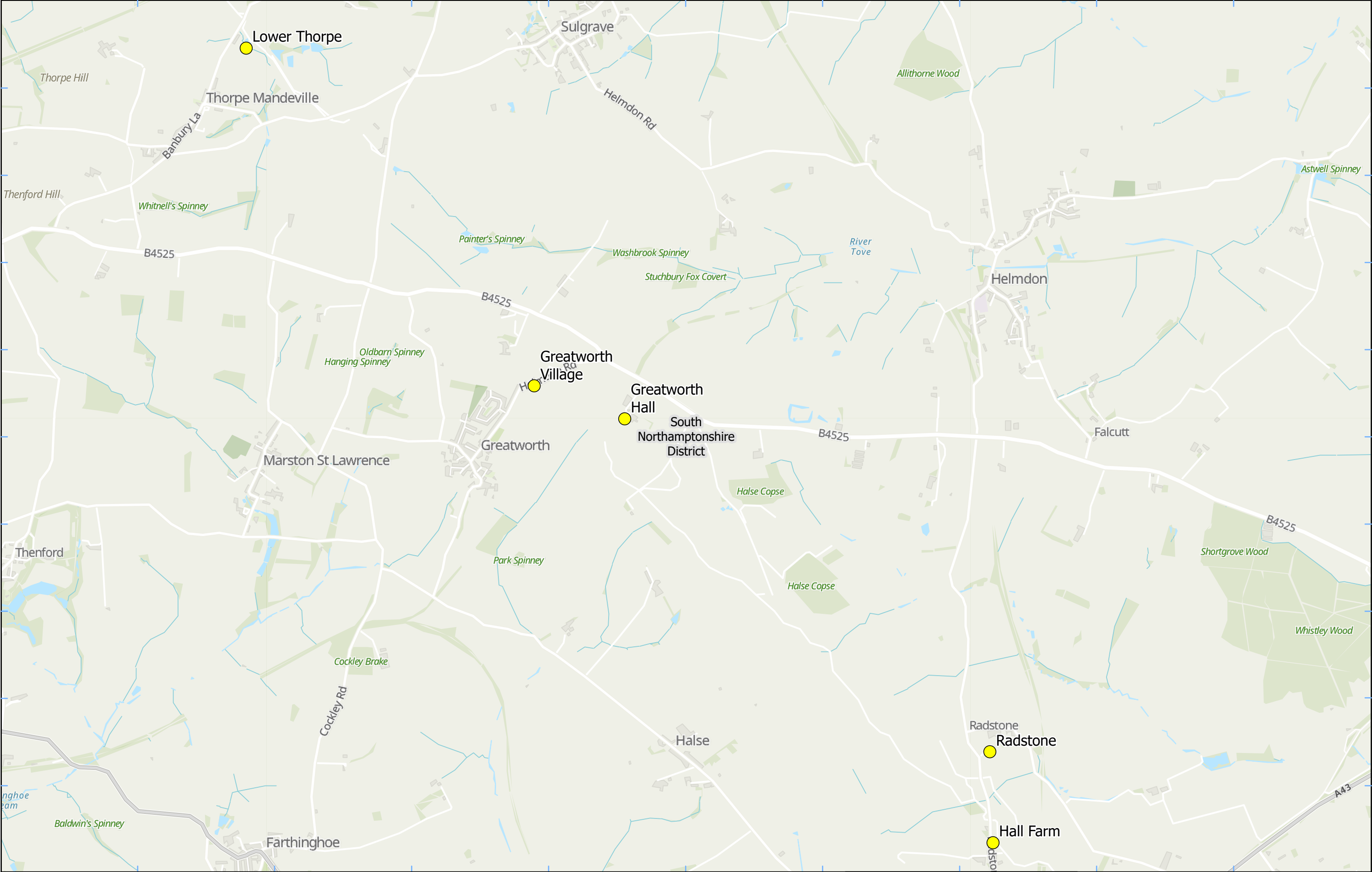


Scale at A3: 1:18,000



Metres

Date: 20/06/24



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: 1:24,000



Metres

Date: 20/06/24

Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and 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	8.3	1.0	42.0	0	28.5
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	11.0	1.0	63.0	0	70.6
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	11.4	1.0	73.0	0	88.2
Fir Tree Nursery	447283, 252421	Fir Tree Nursery, West Northamptonshire	M	Yes	Yes	9.3	1.0	60.0	0	87.2
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	M	Yes	Yes	9.2	1.0	35.0	0	54.2
Hall Farm	458734, 239823	Hall Farm, Radstone Road	M	Yes	Yes	9.4	1.0	46.0	0	53.8
Greatworth Village	455551, 242992	Greatworth Village, Helmdon Road,	M	Yes	Yes	9.3	1.0	55.0	0	87.9
Lower Thorpe	453553, 245334	Banbury Lane, Lower Thorpe	M	Yes	Yes	9.9	1.0	55.0	0	78.8
Greatworth Hall	456179, 242763	Greatworth Hall, Greatworth	M	Yes	Yes	8.7	1.0	51.0	0	70.7
Blackgrounds	450846, 248413	Blackgrounds, West Northamptonshire	M	Yes	Yes	11.5	1.0	70.0	0	56.7

Figure 3: Continuous dust 1-hour mean indicative PM₁₀ concentration for all monitors





