

## Air Quality and Dust Monitoring Monthly Report – November 2024

West Northamptonshire District Council



## Department for Transport

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 in the West Northamptonshire District (WNDC) during November 2024.

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](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 worksites, as presented in Appendix A, Figure 1 and Figure 2, include:

## **Southam**

- Installation of drainage and culverts
- Pond maintenance
- Topsoil stripping and material movement
- Further establishment of the site access road
- Bulk earthworks Southam Cutting, Windmill Hill & Ladbroke Cutting
- Southam Embankment bulk earthworks, Embankment fill
- Pouring of pile cap at Lower Radbourne Farm AOB
- Earthworks for piling platform works at Lower and Upper Radbourne viaducts
- Southam Culvert excavations
- River Itchen Viaduct Works (cofferdams & platform extension)
- Leamington Road Embankment (fill)

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 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 No (0) dust trigger alerts were recorded during the monitoring period (November 2024).

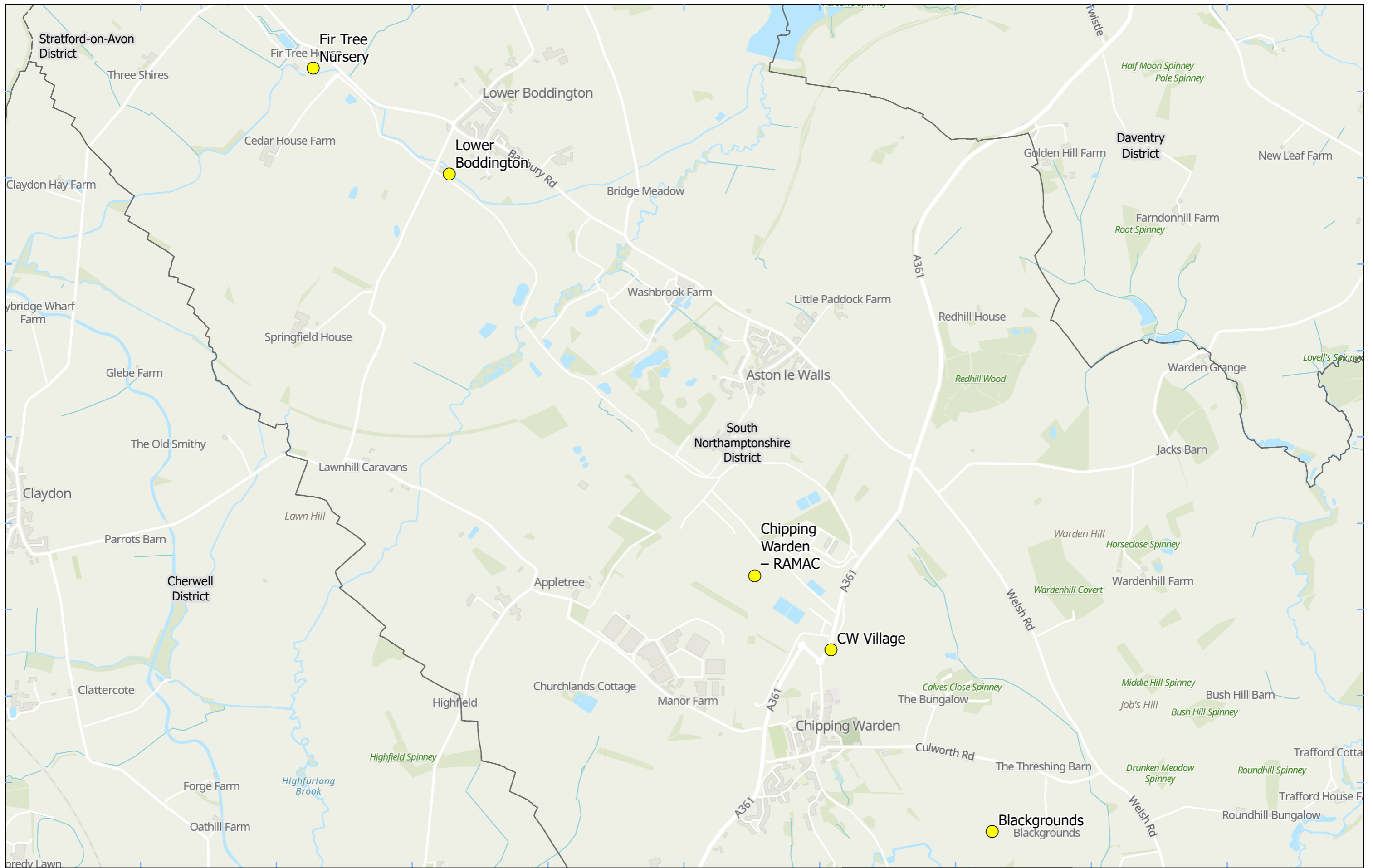
1.1.9 Data capture was below 90% for multiple monitors due to:

- Radstone monitor - Low data capture was due to a battery fault throughout the month. Access to location was difficult and unsafe to replace batteries.
- Hall Farm monitor - Intermittent 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. Access to location was unsafe to replace batteries.
- Chipping Warden – RAMAC monitor - Low data capture during this month was due to multiple issues with the monitor and turbine regulator. This is still under investigation with the supplier.
- 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 battery fault.
- Fir Tree Nursery monitor - Intermittent data capture during this month was due to issues with the solar controller and the battery.
- Greatworth Village monitor - Intermittent data capture from 3<sup>rd</sup> to 10<sup>th</sup> November was due to a battery fault.
- Lower Thorpe monitor - Intermittent data capture from 3<sup>rd</sup> to 10<sup>th</sup> and again on 25<sup>th</sup> November was due to a battery fault.
- Blackgrounds 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 (November 2024).

# Appendix A – Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within WNDC



**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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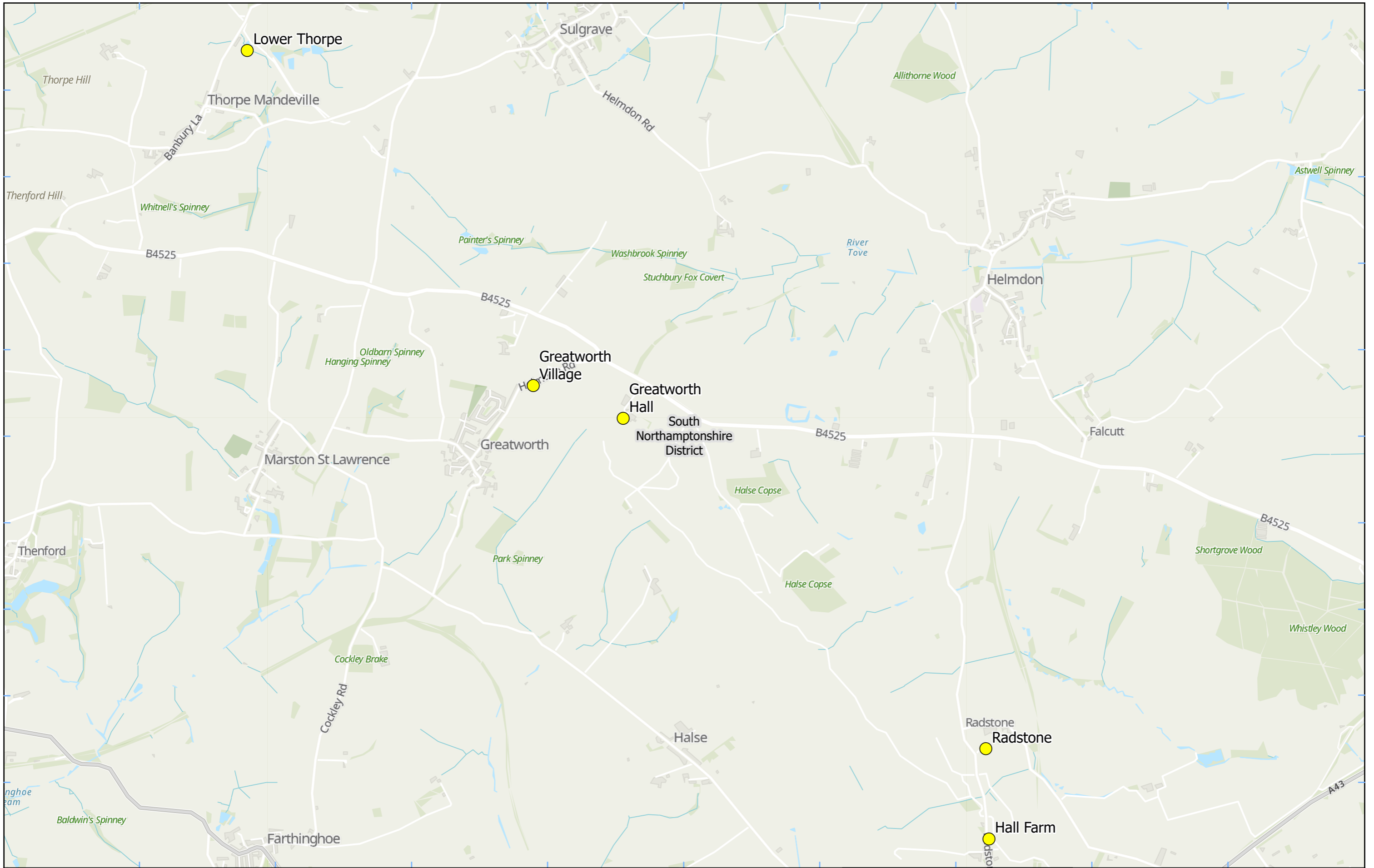
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**Legend**

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

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

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## 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 <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>	1-hour data capture (%)
Chipping Warden – RAMAC	449600, 249755	Chipping Warden, West Northamptonshire	M	Yes	Yes	7.2	1.0	59.0	0	23.6
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	7.0	1.0	47.0	0	68.5
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	7.5	1.0	74.0	0	77.1
Fir Tree Nursery	447283, 252421	Fir Tree Nursery, West Northamptonshire	M	Yes	Yes	7.0	1.0	76.0	0	59.9
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	M	Yes	Yes	.5	1.0	46.0	0	33.1
Hall Farm	458734, 239823	Hall Farm, Radstone Road	M	Yes	Yes	7.5	1.0	78.0	0	67.5
Greatworth Village	455551, 242992	Greatworth Village, Helmdon Road,	M	Yes	Yes	7.0	1.0	81.0	0	85.7
Lower Thorpe	453553, 245334	Banbury Lane, Lower Thorpe	M	Yes	Yes	6.9	1.0	187.0	0	86.0
Greatworth Hall	456179, 242763	Greatworth Hall, Greatworth	M	Yes	Yes	6.5	1.0	60.0	0	67.9
Blackgrounds	450846, 248413	Blackgrounds, West Northamptonshire	M	Yes	Yes	9.6	1.0	73.0	0	60.8



Figure 3: Continuous dust 1-hour mean indicative PM<sub>10</sub> concentration for all monitors



