

## Air Quality and Dust Monitoring Monthly Report – January 2026

**Buckinghamshire** 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 Buckinghamshire Council (BC) during January 2026.

1.1.2 Figures 1-7 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, Figures 1-7, include:

## **CVV LTP1 worksite**

- North Embankment Compound: Compound operation;
- DWSC Compound: Compound operation;
- Haul Road: Haul road maintenance;
- ATFS: Permanent drainage, soiling and seeding, ATFS access road construction, slab removal;
- Pumping Water Management;
- Satellite Welfares;
- South Abutment: Drainage works, South Abutment construction stage 2 – earthworks, yard supporting activities, soiling and seeding works, launching girder platform removal;
- Environmental Maintenance;
- Stockpiling Activity HOAC: Stockpile management;
- Deck Finishes Logistics: Preparation and operation of storage yards and installation of below deck access provision, traffic management on the deck surface, delivery of parapets, noise barriers, troughs, pipes, steel works and other minor materials to the storage yards and deck, installation of access at the top of the deck (HAKI stairs) and finishes support plan;
- Deck Finishes – On-deck Construction: North abutment works, deck waterproofing, SFRC slab construction, north embankment and south embankment noise barriers and foundations, noise barrier and concrete panel installation at north embankment, and masking wall installation at north embankment and south embankment;
- Deck Finishes – In-deck Construction: Structural health monitoring;
- Landscaping: Advanced works including removal of cofferdam, initial ground drainage including manhole chamber, landscaping, hardstanding removal and tree removal & vegetation clearance, and streetworks – bellmouth road construction; and

- General site activities.

### **Chalfont St Peter Vent Shaft**

- General Site Activities;
- Road Maintenance Works;
- Ground Level Works (External Works Part 2);
- Building Trades: brickworks and internals; and
- Demobilisation.

### **Amersham Vent Shaft**

- General Site Activities;
- External Works Phases 1&2;
- Precast Boundary Wall;
- Internal Works;
- Steel Works and Zinc Cladding; and
- Land Drainage Works.

### **Chalfont St Giles Vent Shaft**

- General Site Activities;
- Road Maintenance Works;
- External Works Phase 2;
- Building Trades: Brickworks and internal works; and
- Demobilisation.

### **Little Missenden Vent Shaft**

- General site activity;
- Tunnel Connection;
- Internal Works;
- Steel Works and Cladding; and
- External Works – Phase 1 and Phase 2.

### **Chesham Vent Shaft**

- General site activity;
- External Works;
- Internal Works;
- Zinc Cladding Works;
- Demobilisation; and
- Landscaping.

### **North Portal work site**

- General Plant: Site Activities;
- Tracks Platform;

- Piling Platform Reinstatement;
- Porous Portal Structure;
- North Portal Building;
- Tunnel Support: Batching Plant operation and concrete distribution and tunnel walkway slip forming; and
- Tracks Drainage and Utilities.

### **South Heath**

- South Heath Earthworks & Drainage: Cutting and landscaping;
- General Earthworks: Site operations & support vehicles, stockpile management, surface water management, compounds and general maintenance;
- South Heath drainage: Earthworks for track drainage, stockpile and landscaping bunds drainage and collection chamber construction;
- Utilities: Excavation and construction, installation of utilities and connection of new utilities;
- Great Missenden Compound: Plant and compound maintenance, utilities work and site security at Great Missenden roundabout;
- GMI/2 Overbridge: Site security, construction of FRC structure, deck finishes and cutting finishes;
- GMI/12 Overbridge: Site security, excavation & pile cropping, construction of FRC structure, deck finishes and cutting finishes;
- Ground Investigation Works: Borehole drilling, geo-physical investigations and ground investigation and mitigation;
- Site Access Road and Mass Haul Route construction and maintenance: lime spreading and tarmac & concrete surfacing; and
- Road utilisation: SAR utilisation and MHR utilisation.

### **North Chilterns to Aylesbury Area**

#### Chesham Lane

##### Rocky Lane Culvert

- Installation of culvert sections complete
- West and East culvert headwalls – pour base slabs
- West culvert headwall – Install reinforcement and commenced formwork
- East Culvert Headwall – Install reinforcement

##### Track Drainage

- Commenced C2.T.5 haul road crossing and MH POI-036 construction
- Expose ends of pre-installed 3no. 900mm pipes below HV
- Air test pipes

##### Rocky Lane – Ditch and Ditch Slab

- Remove underside ditch fill
- Stake soffit formwork.

#### Ellesborough Road

- PCC Installation.

### Bacombe Lane

#### Grove Farm Underbridge:

- Installation of the rebars for the blinding on the southeast and southwest linerwalls
- Blinding and kicker concrete pour on the southeast and southwest linerwalls
- Steelfixing on the linerwalls on the Southeast and Southwest of the underbridge
- Construction of the crane platform on the north side of Grove Farm Underbridge
- Working on the peri shutters with the installation of the reckli
- Boxout construction for the steps of the linerwalls on both the southeast and west walls

#### Grove Farm Culvert:

- BKJV was carrying out the drilling and the pumping of grout into the void around the tunnel at POI001
- completion of phase 1 of grouting the void
- Constructing a working platform for the fissure grouting to take place
- Fissure grouting in front of the head of the TBM commenced

#### Grove Farm Attenuation Tank

- Delivery of PCC Segments
- Installation of the External Wall units
- installing the base slab reinforcement for sections 2 and 3
- Installation of the dry flow channels for section 2
- Installation of the stitch joints reinforcements on section 1
- base slab Concrete pour was completed for section 2 and 3
- Up and down scaffold was installed for the access and egress into the tank.

### Wendover Compound

#### Wendover North Portal:

- LPW Guide wall removal, trimming and capping

#### Wendover Green Tunnel

- PCC Installation
- Invert Slab / Tunnel FRC
- Waterproofing
- Cutting Dewatering
- Break from Highway.

### **Calvert to Greatworth Area**

#### Calvert (FCC and School Hill Monitor)

- School Hill batching plant – production of concrete.
- School Hill Overbridge – FRC works.
- School Hill Road Realignment – VacEx for utilities
- Calvert Green overbridge – FRC works.
- Aggregate deliveries along the site access road (SAR).

- Calvert Cutting earthworks – drainage and general maintenance activities.
- CBGM batching plant – production of CBGM

#### Woodlands

- Woodlands Cutting – Dig & Replace.
- Woodland Drop Inlet Culvert works.
- Adamas Accommodation – Technical backfill and back of wall drainage.
- Aggregate deliveries along the SAR.

#### Quainton

- Earthworks - Ongoing
- Utility diversions.
- Station Road Realignment (East tie-in) – de-vegetation, old tarmac removal.

#### Other works ongoing, where no dust monitoring is being undertaken include:

- West Street overbridge
- Portway culvert
- Perry Hill overbridge
- EWR culvert
- IMD West culvert
- IMD East Culvert
- Addison Road highway
- Shepherds Furze earthworks (stockpile maintenance)
- Shepherds Furze culvert
- MCJ4 chord earthworks
- Infrastructure maintenance depot (IMD) earthworks
- Secant retaining wall
- Bat mitigation structure
- SCL/13 overbridge
- FCC Cell 6 earthworks (stockpile maintenance)
- FCC Access Road Retaining Wall
- Sheephouse Wood North culvert
- Greatmoor no. 4 culvert and CAG2 underbridge
- Megaditch retaining wall
- Greatmoor no. 3 culvert
- GUN28 overbridge
- QUA36 overbridge
- Hills farm earthworks (stockpile maintenance)
- Edgcott Road overbridge
- QUA26 Underbridge
- Doddershall Embankment earthworks
- Doddershall No. 6 and No. 7 Culvert
- Quainton cutting
- QUA28 overbridge

- Station Road overbridge
- Station Road Network Rail overbridge.

#### Turweston North

- A422 Overbridge: Pier 1 and 2 - Maintenance Platform – Backfilling, Parapet installation - A3 to A0, Abutment A0 – Backfilling.
- Turweston Green Overbridge: Topsoiling of deck, Installation of service sleeves on the deck.
- Turweston Viaduct: Top deck Pour 2 steel fixing and shuttering (North), A0 Traveller pads, lifting and deviation foundation installation, concrete curing, striking and moving formwork traveller.
- Earthworks: Drainage, Site maintenance (silt/flood water removal), excavate and replace, rock buttress, 6P6 and 6N7 filling

#### School End

- C2.T.80 Track Drainage at Chetwode Cutting
- Installation of piling platform for noise barrier piling
- Surface Water Management
- SAR and MHR use and maintenance

#### Hermitage

- Chetwode Cutting Noise Barrier Piling for Baur Keller.
- Removal of Chetwode Embankment surcharge.
- CHW18 Overbridge:- Parapet stitch pours
- SAR and MHR use and maintenance

#### Twyford

- Twyford C2.T.71 track drainage, deep drainage features.
- Twyford Viaduct North: -P2 Diaphragm Steel Fixing and Concrete, A3 Diaphragm Steel fixing, formwork, and concrete.
- Twyford Viaduct south: - Paratop Installation, Striking Paratops.
- Surface Water Management
- SAR and MHR use and maintenance

1.1.5 Twenty-six (26) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.

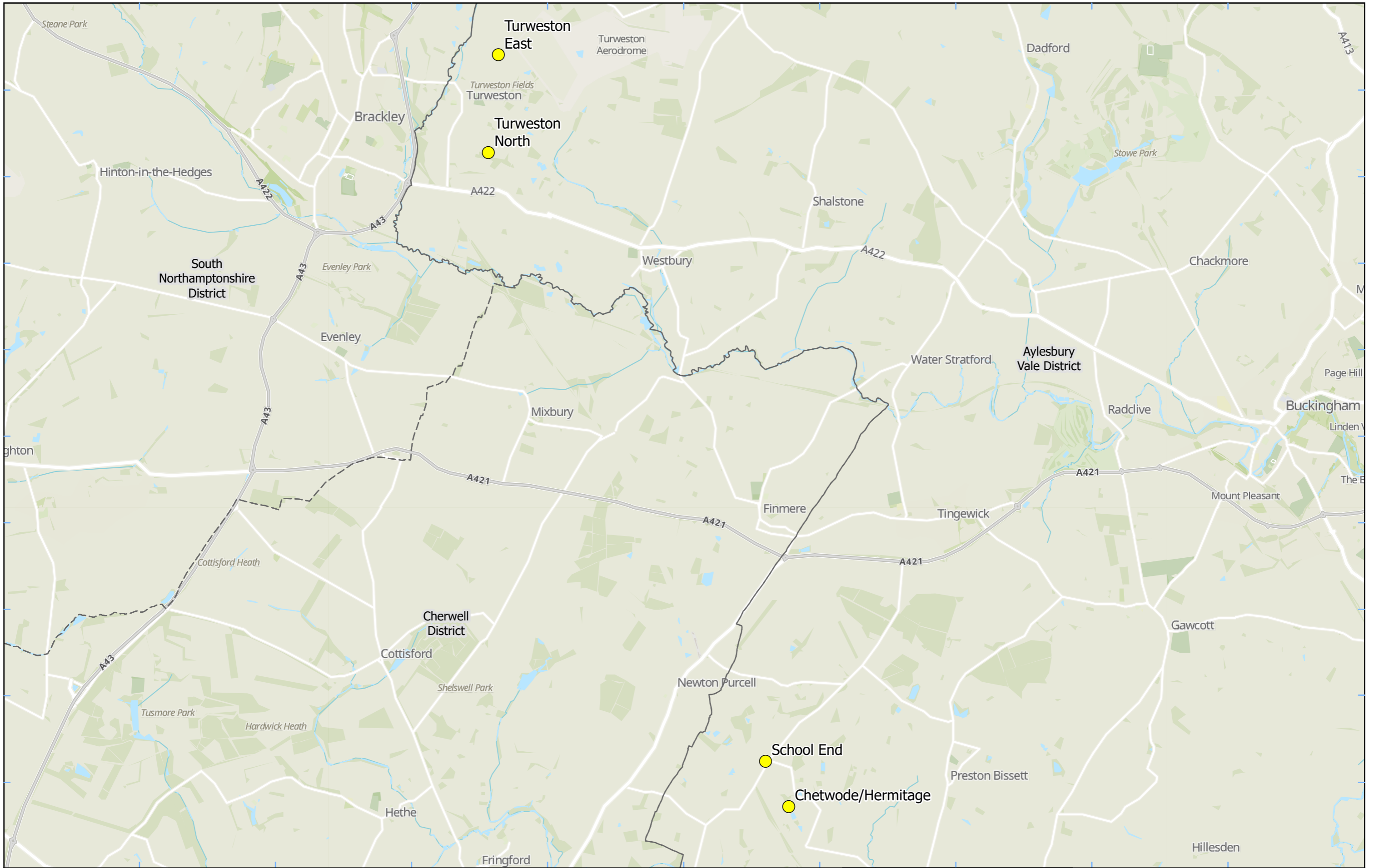
1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor presented in Figure 8. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative 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>, measured as a 1-hour mean, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (December 2018)*' has been applied.
- 1.1.8 No (0) dust trigger alerts were recorded during the monitoring period (January 2026).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- CHStP-AQMP1a and CHStP-AQMP2 are due to power being removed from the site. Align are arranging for alternative locations and power supply to be installed for these monitors.
  - Ellesborough Road had very low data capture from 1st to 28th January 2026 due to a battery fault and no access to property where monitor is located to enable battery swaps.
  - Bacombe Lane had intermittent data capture from 10th January 2026 due to a battery fault.
  - Wendover Compound had intermittent data capture from 10th January 2026 due to a battery fault.
  - No data capture at School End, Twyford, Chetwode Hermitage, Turweston North and Turweston East for January 2026, removed for the winter period following Dust Risk Assessment
- 1.1.10 There were no (0) complaints received during the reporting period (January 2026).

# Appendix A – Worksite and Dust Monitoring Locations

Figures 1-7: Worksite and Monitoring locations within BC



**Legend**

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

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

**Buckinghamshire County**

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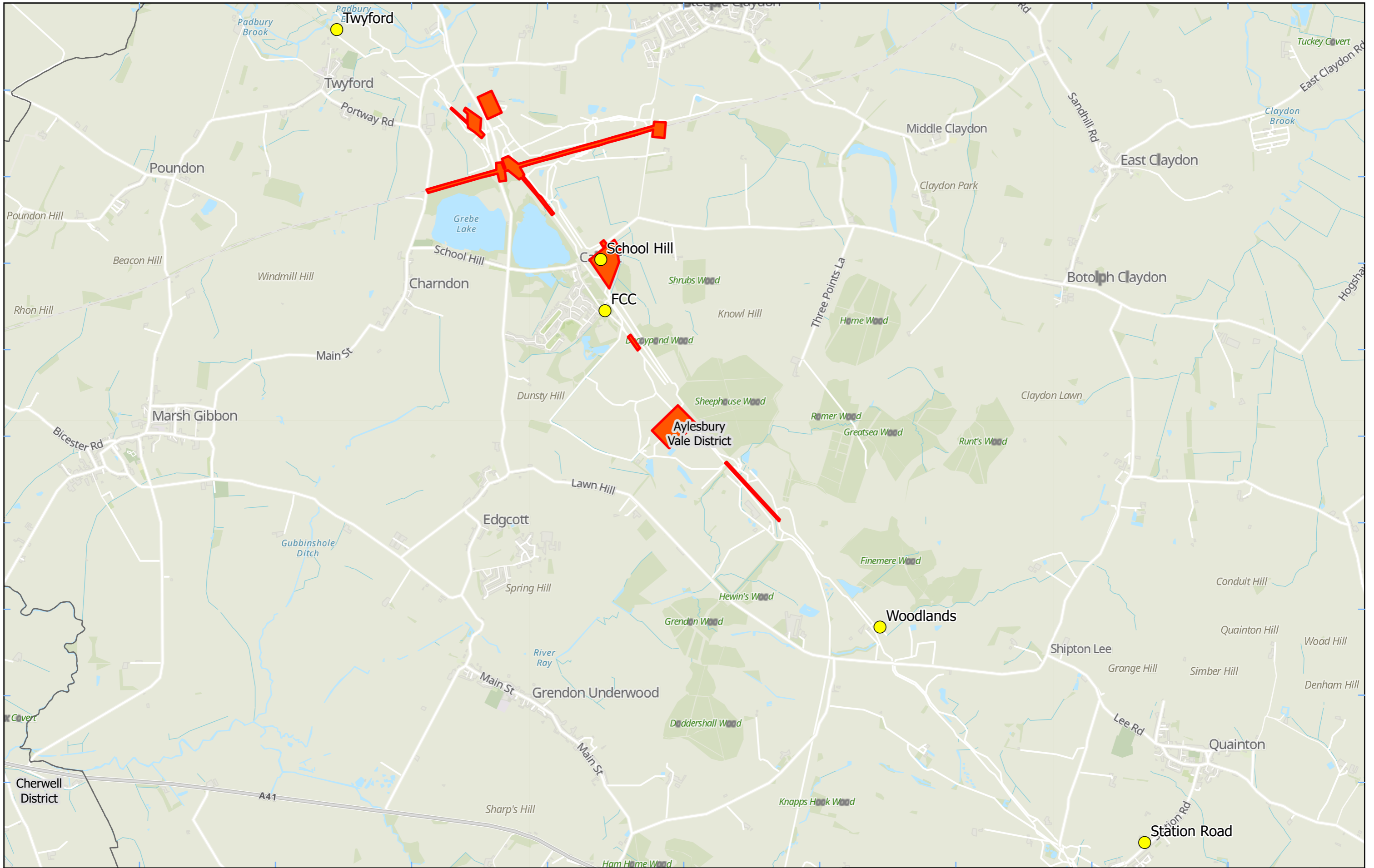
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**Legend**


- Dust monitor
- District Borough Unitary Boundaries
- Worksite

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Map Number

Map Name  
**Worksite & Monitoring Locations  
In BC (Sheet 2)**


**Buckinghamshire County**



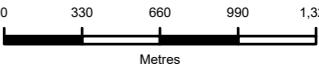
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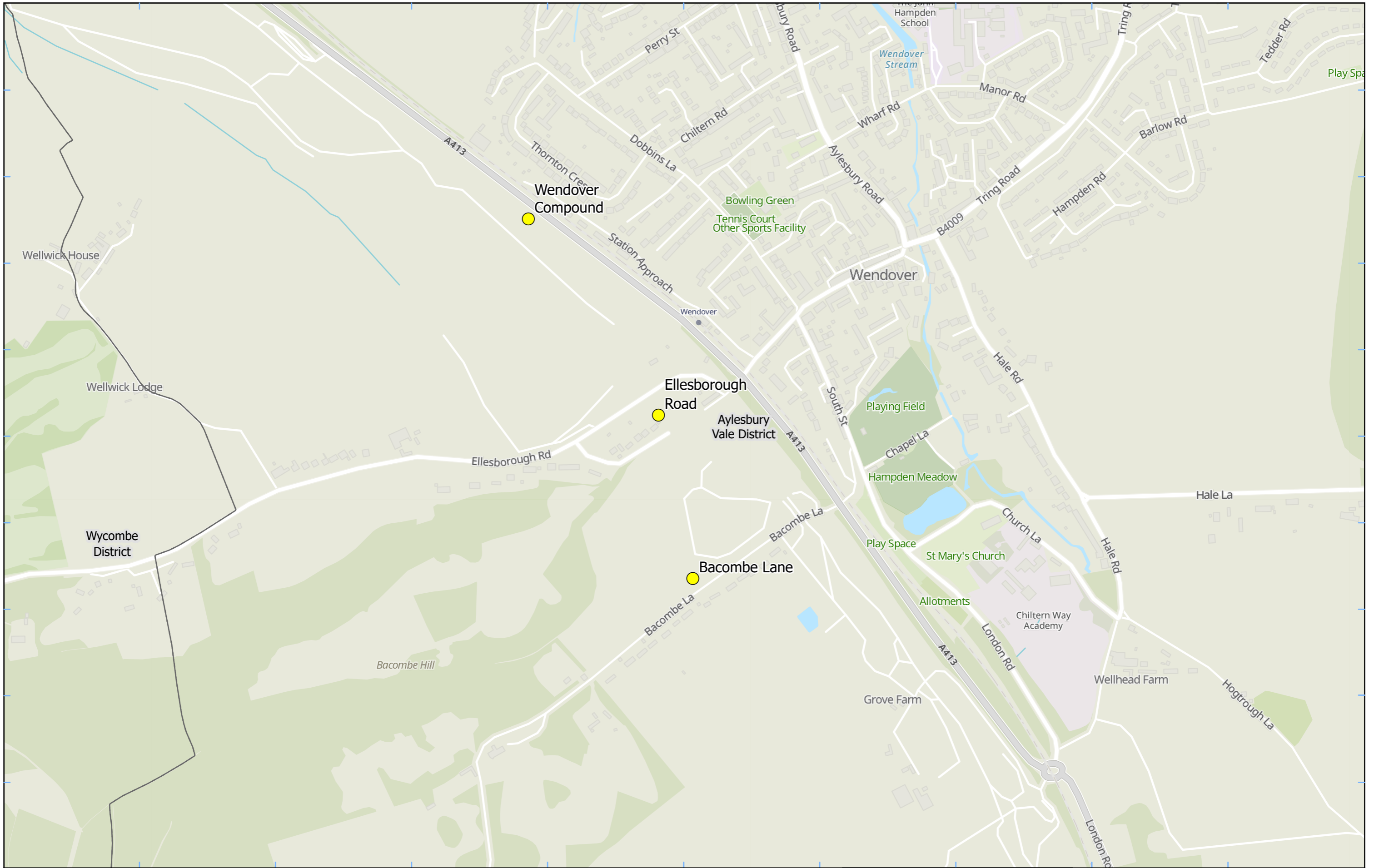


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**Legend**

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name

**Monitoring Locations  
In BC (Sheet 3)**

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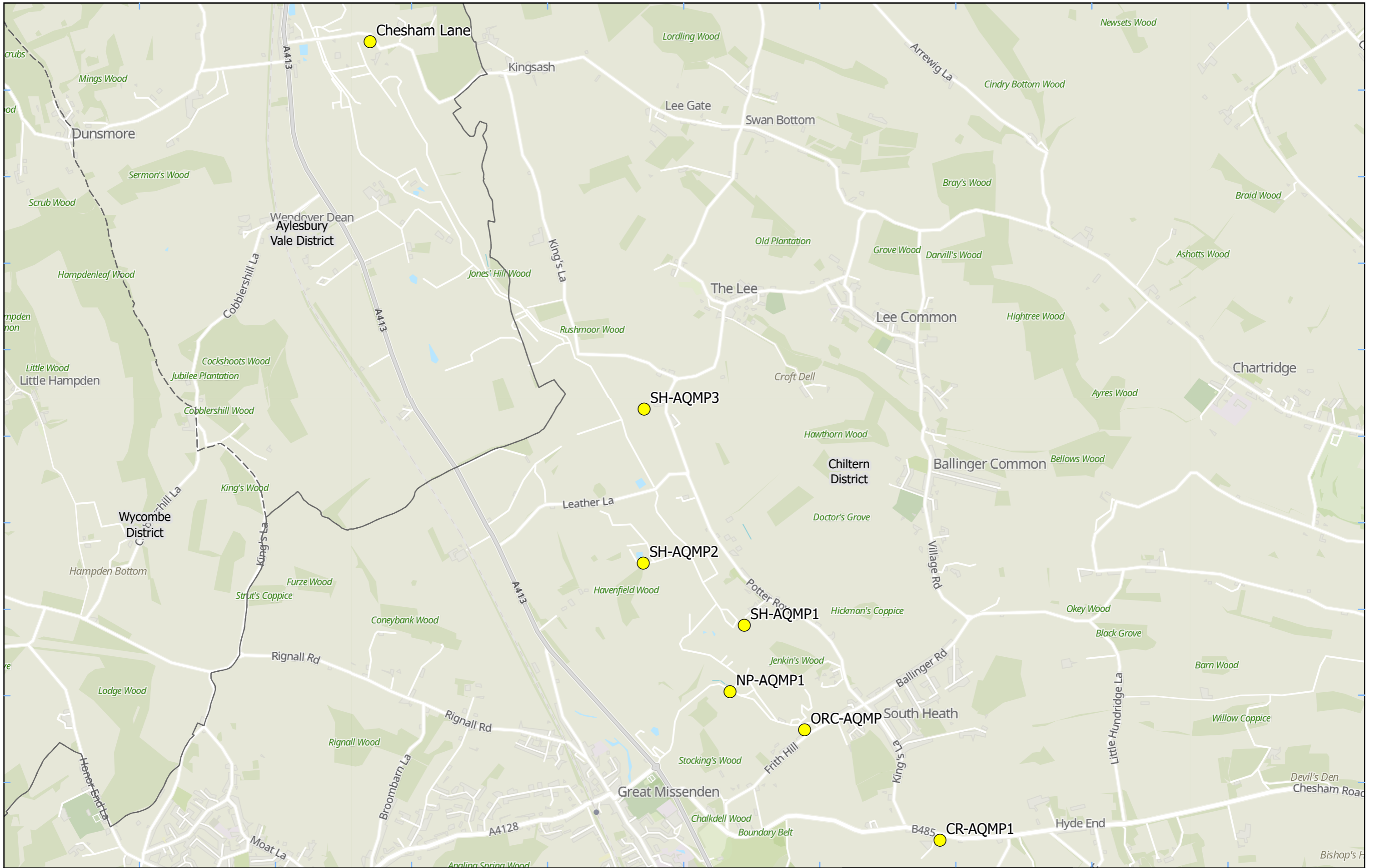
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**Legend**  
 Dust Monitor  
 District Borough Unitary Boundaries

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Map Number  
 Map Name  
**Monitoring Locations  
 In BC (Sheet 4)**  
 Buckinghamshire County

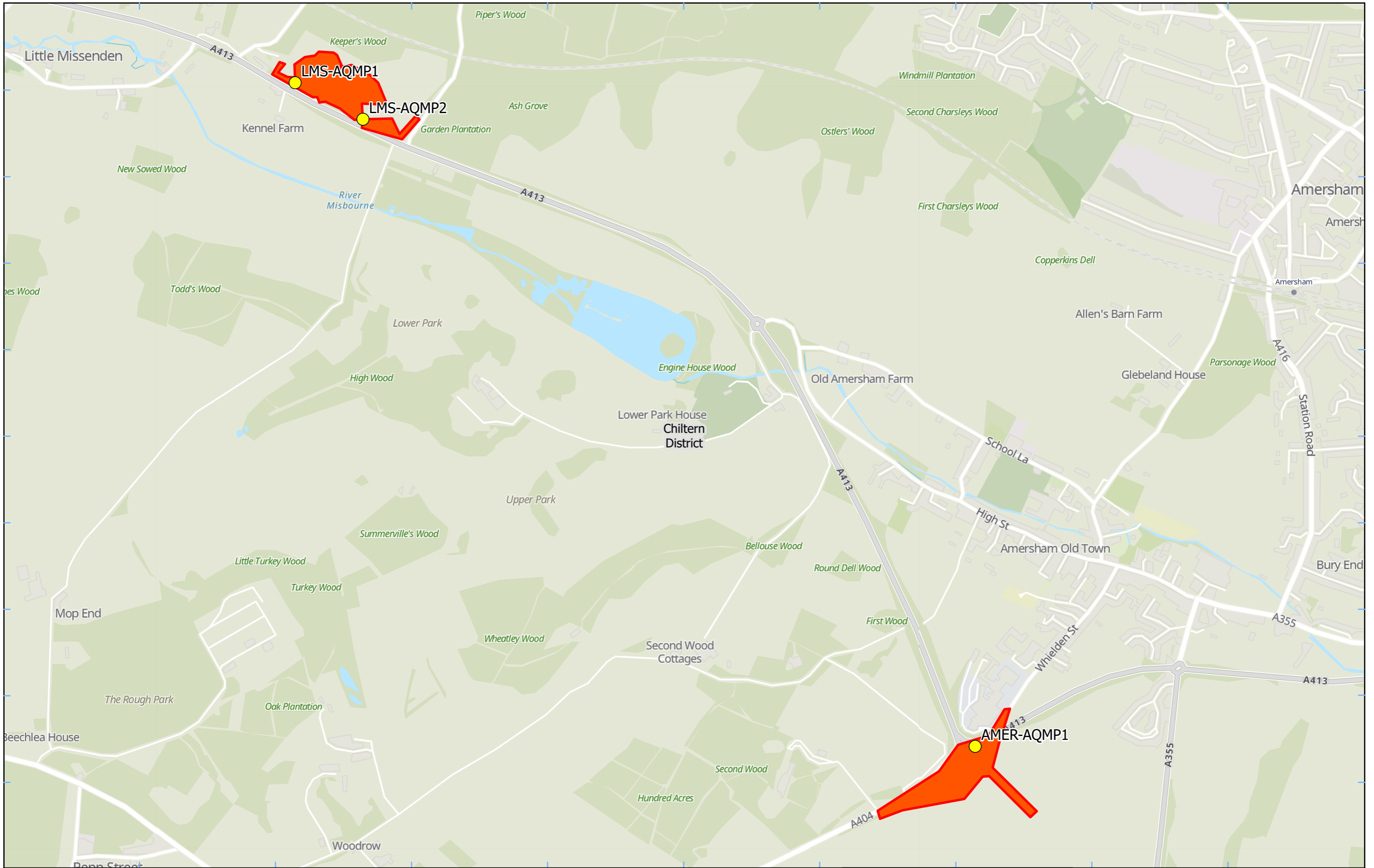
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**Legend**  
 Dust Monitor  
 District Borough Unitary Boundaries  
 Worksite

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Map Number
Map Name <b>Worksite and Monitoring Locations In BC (Sheet 5)</b>
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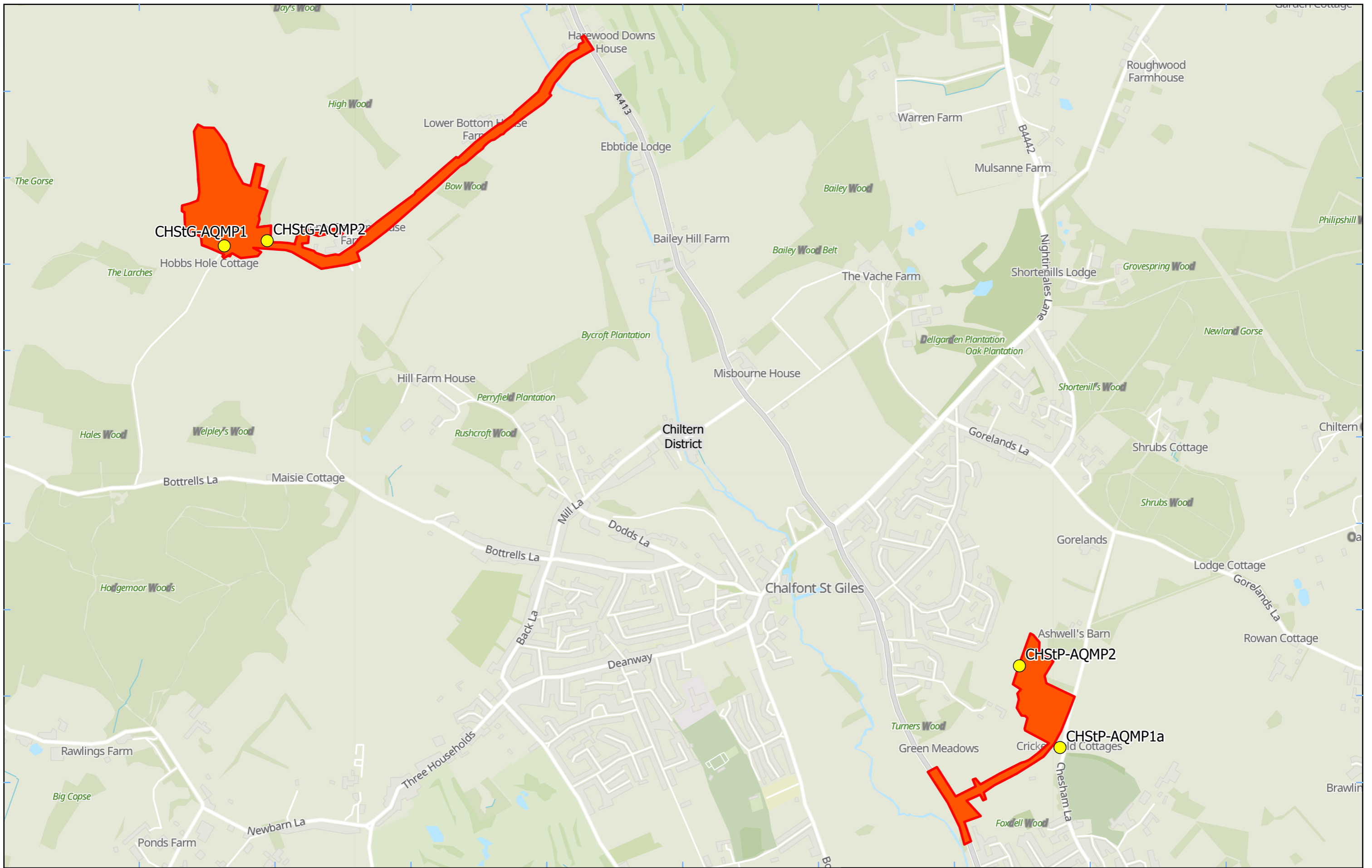
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**Legend**

- Dust Monitor
- District Borough Unitary Boundaries
- Worksite

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Map Number

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Map Name  
**Worksite and Monitoring Locations  
In BC (Sheet 6)**

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**Buckinghamshire County**

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0 120 240 360 480  
Metres

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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>	Data capture (%)
CHStP-AQMP1a	500093, 192996	Relocated from CHStP-NMP1 to site-boundary outside residence	M	Yes	Yes	-	-	-	-	-
CHStP-AQMP2	499951, 193282	On the western boundary of the site	M	Yes	Yes	-	-	-	-	-
AMER-AQMP1	495367, 196722	On the north-eastern boundary of Amersham	M	Yes	Yes	8.4	1.0	84.0	0	99.3
CHStG-AQMP1	497170, 194752	On the southern boundary close to Hobbs Hole Cottage	M	Yes	Yes	7.7	1.0	82.0	0	99.7
CHStG-AQMP2	497320, 194770	On southern boundary next to carpark	M	Yes	Yes	8.9	1.0	95.0	0	96.8
LMS-AQMP1	493190, 198848	On the south-west of the site	M	Yes	Yes	7.4	1.0	87.0	0	97.4
LMS-AQMP2	493407, 198731	On the south-east of the site	M	Yes	Yes	9.0	1.0	86.0	0	98.7
CR-AQMP1	491291, 201143	On the Chesham Road Vent Shaft	M	Yes	Yes	8.1	1.0	84.0	0	95.8
ORC-AQMP	490503, 201786	Orchard Cottage South-eastern Site Boundary	M	Yes	Yes	7.8	1.0	79.0	0	97.7
NP-AQMP1	490069, 202008	North Portal Site Entrance	M	Yes	Yes	8.0	1.0	82.0	0	97.8

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 (%)
SH-AQMP1	490152, 202395	Park Farm	M	Yes	Yes	14.1	0.2	100.2	0	94.6
SH-AQMP2	489564, 202757	King's Lane	M	Yes	Yes	16.4	5.0	53.1	0	100.0
SH-AQMP3	489569, 203654	Leather Lane	M	Yes	Yes	29.4	7.5	92.4	0	100.0
School Hill (CAL-AQMP2) - Dust	469003, 224740	School Hill Compound	M	Yes	Yes	9.2	1.0	97.0	0	84.9
School End - Dust	463666, 230049	School End, Chetwode	M	Yes	Yes	-	-	-	-	-
Chesham Lane - Dust	487974, 205794	Chesham Lane, The Lee, Wendover	M	Yes	Yes	-	-	-	-	-
Twyford - Dust	466544, 226883	Twyford, Buckinghamshire	M	Yes	Yes	-	-	-	-	-
Chetwode/Hermitage - Dust	463936, 229521	Hermitage, Chetwode	M	Yes	Yes	-	-	-	-	-
Turweston North - Dust	460439, 237140	Turweston, Buckinghamshire	M	Yes	Yes	-	-	-	-	-
Turweston East - Dust	460556, 238280	Turweston, Buckinghamshire	-	No	Yes	-	-	-	-	-
FCC - Dust	469042, 224263	Adjacent Red Kite View, Calvert	M	Yes	Yes	8.6	1.0	96.0	0	94.4
Ellesborough Road - Dust	486458, 207550	Ellesborough Road, Wendover	M	Yes	Yes	10.2	3.0	64.0	0	18.7
Bacombe Lane - Dust	486528, 207217	Bacombe Lane, Wendover	M	Yes	Yes	9.5	1.0	80.0	0	52.2
Station Road - Dust	474068, 219307	Station Road, Quainton	M	Yes	Yes	8.9	1.0	86.0	0	95.2
Wendover Compound- Dust	486193, 207950	Wendover Bypass, Wendover	M	Yes	Yes	6.6	1.0	88.0	0	59.1

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 (%)
Woodlands - Dust	471603, 221315	Station Rd, Quainton, Woodlands Farmhouse	M	Yes	Yes	7.7	1.0	78.0	0	84.5

Figure 8: Continuous dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors

