

Air Quality and Dust Monitoring Monthly Report – June 2025 **Buckinghamshire** 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 Buckinghamshire Council (BC) during June 2025.
- 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, 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 Maintenance: Haul road maintenance;
- ATFS: permanent drainage, soiling and seeding, ATFS access road construction, slab removal;
- Pumping Water Management: 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 material 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 round-about;
- 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-phys investigations and ground investigation and mitigation;
- Site Access Road and Mass Haul Route construction and maintenance: lime spreading and tarmac & concrete surfacing; and
- Roads utilisation: SAR utilisation and MHR utilisation.

North Chilterns Area

Grimms Ditch

- Minor Excavation works to expose front of the sheet pile retaining walls;
- Concrete finishing works and application of joint sealant; and
- Installation of Monitoring prisms and ATS machine.

Chesham Lane

- Rocky Lane Underbridge
- Installation catchpits and pipe run
- Back of wall Drainage works
- Cutting, testing, filling and compaction work for Rocky Lane Realignment
- Concrete finishing works and application of waterproofing for the underbridge structures
- Utility works - Micro Substation, BT chambers and Thames water main.

Ellesborough Road

- Excavation continuing in phase 2/4 (Wendover Green Tunnel South)
- Excavation continuing in phase 3 (Wendover Green Tunnel North).

Nash Lee Road, Nash Lee Lane

NLOB A3 (East)

- E1 North and South Wingwalls poured (70m3).
- Fixing and reinforcement of the North & South E2 wingwalls.
- Applying Blackjack bitumen paint waterproofing to the E3 base slab

NLOB Installation / EM

- All 16 beam sections lifted into position by MJ Hughes using 500T and 300T cranes
- All cross bracing between the beams installed by MJ Hughes

Mill House South Culvert

- Excavated and poured the Blinding for the Phase 1 boxes
- Excavated and poured the Blinding for the Inlet headwall
- 12 no. boxes landed and internal waterproofing joint sealant applied
- Waterseal applied Pitch mastic waterproofing to the external side joints of the boxes
- Constructed and poured the inlet headwall Apron Slab

ELL20

- Poured the Middle Base Slab of the West Impact Wall (90m3)
- Applied Blackjack waterproofing to the Base Slab

AC9 Culvert

- Built up the working platform for installation of the pipes
- Installed 17 no. pipes for the culvert.

Bacombe Lane

- TBM Drive from Chamber 002 continues with the Rings being installed as the drive-in
- Installation of the rail in the tunnel to transport the segments through.

Grove Farm

Grove Farm Underbridge:

- Digging to the formation level on the North, East, South, and West Wingwalls.
- Cutting the Pile caps and rebars down to level
- Fixing and reinforcement of the Northeast.

- Striking Shutters for the blinding on the southeast and southwest.
- Crane platform constructed.

Grove Farm Culvert:

- Fixing the steel for the headwall for shaft001 (POI001)
- Base slab reinforcement and concrete pour for shaft001 (POI001)
- Tunnel drive continuation on POI002
- Jacking Rams and handrails have been dismantled around shaft 001
- Grouting around the total 12 rings in shaft001
- 120 rings installed to date

Grove Farm Attenuation Tank

- Scraping the SPI Platform
- Backfilling the ramp to existing ground level.

Small Dean Viaduct

- Pier 1 SDV bottom deck slab deck
- Span 2 and pier 2 pour of SDV top deck
- Robust kerb kicker formwork installation
- Span 2, pier 2, pier 6, span 7, pier 1 and span 1 top deck steel fixing
- Robust kerb formwork installation
- A0 backwall pour 1
- A7 backwall pour 1 and 2
- A7 backwall excavation for waterproofing
- A7 waterproofing
- Scaffold removal Pier 2.

Wendover Town

Wendover North Portal:

- Completed SAR diversion works, including the installation of 13 protection slabs and the relocation of the wheel wash.
- Commenced LPW trimming and capping, with 220m of wall trimmed and capped.
- Removed and built up steps for LPW installation.
- Hauled excavated material from the LPW installation work

LPW Construction:

- Continued LPW guide wall removal works, with a total of 400m removed.
- Continued LPW installation works using 2 hydraulic grabs and 1 long-reach excavator.
- Completed pre-treatment works for the entire scope.

Phase 1 Precast Installation:

- Continued construction of phase 1 tunnel
- 153no. segments installed in May

Compound Works:

- Installation of drainage network around compound
- Installation of manholes, catch pits and filter drains
- Installation of NSFA125 hydrocarbon interceptor

Phase 3 Dewatering:

- Devegetation of western ditch alongside A413 for dewatering discharge
- Mobilisation of dewatering system
- Mobilisation of abstraction pumps and MT8 monitoring tank
- Mobilisation of pipelines
- Mobilisation of discharge pumps
- Dewatering system commissioned. First dewatering 14th May

Waterproofing:

- Mobilisation of over waterproofing gantry
- Started construction of gantry at north of phase 1
- Sealed of ring gaps around extrados of constructed tunnel.

Calvert Area

Quainton

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

Woodlands

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

FCC / School Hill (Calvert)

- 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.

Other works ongoing in Calvert not within proximity (greater than 1km) to dust monitors 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.

Twyford to Greatworth

General

- Chetwode Cutting south- E&R
- Chetwode Landscape Bund Construction
- School End Overbridge- Parapet deliveries and installation. Stich pours.
- CHW18 Parapet deliveries and installation
- School End Highways- Phase 3 tie in works for permanent carriageway.
- CHW18 highways- trial hole excavation

- Twyford Embankment Mainline E&R and soil stabilisation
- Twyford Viaduct Formwork A0 Stem, Abutment A0 Endwall, Steel Fixing & FWK, Abutment A0 Endwall - Concrete, Pier P2 Pier core - Steel Fixing, Pier P2 Pier Shell, Pier P2 Pier Shell Core Concrete Installation, Abutment A3 Stem - Steel Fixing, Abutment A3 Stem -FWK, Abutment A3 Stem -Concrete
- Removal of topsoil stockpile at bottom of trace to PBI-5
- Removal of silt in Twyford East Culvert.
- Stockpiling
- Mass Haul Road Movements.

Turweston North

- A422 Overbridge- Lower deck reinforcement
- Turweston green Overbridge- reinforcement instillation for diaphragms, structural backfill, south wingwall construction, formwork instillation for diaphragms, parapet instillation, diaphragm concrete pours
- Turweston Viaduct- Lowering & bearing installation. L walls installed at the abutments to facilitate the current backfill at Turweston A0. Surcharge at Helmdon A2
- Earthworks- embankment fill, Lime stabilisation, stockpile removal, crushing of limestone, surcharge (ensuring consolidation of the ground by adding layers of soil). Bulk excavation.

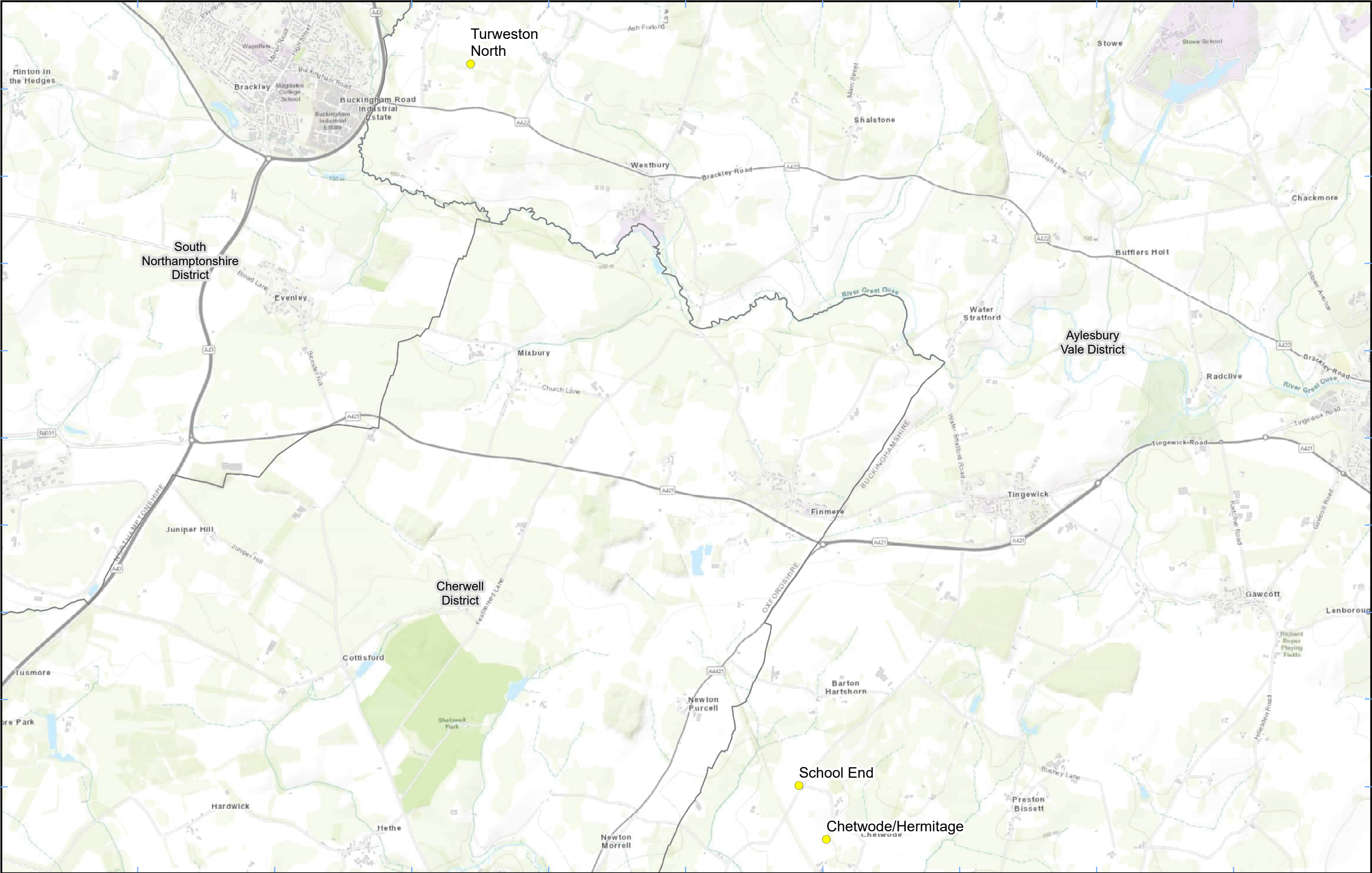
- 1.1.5 Thirty-three (33) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor 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 PM₁₀ concentrations of 190 µg/m³, 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 (June 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- CHSP-AQMP1a - was removed from mains power on the 4th of June and reinstated onto solar power on the 17th of June

- NP-AQMP1 - had an issue with the sampler and controller which was sorted on the 7th of June.

1.1.10 There were no (0) complaints received during the reporting period (June 2025).

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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340

680

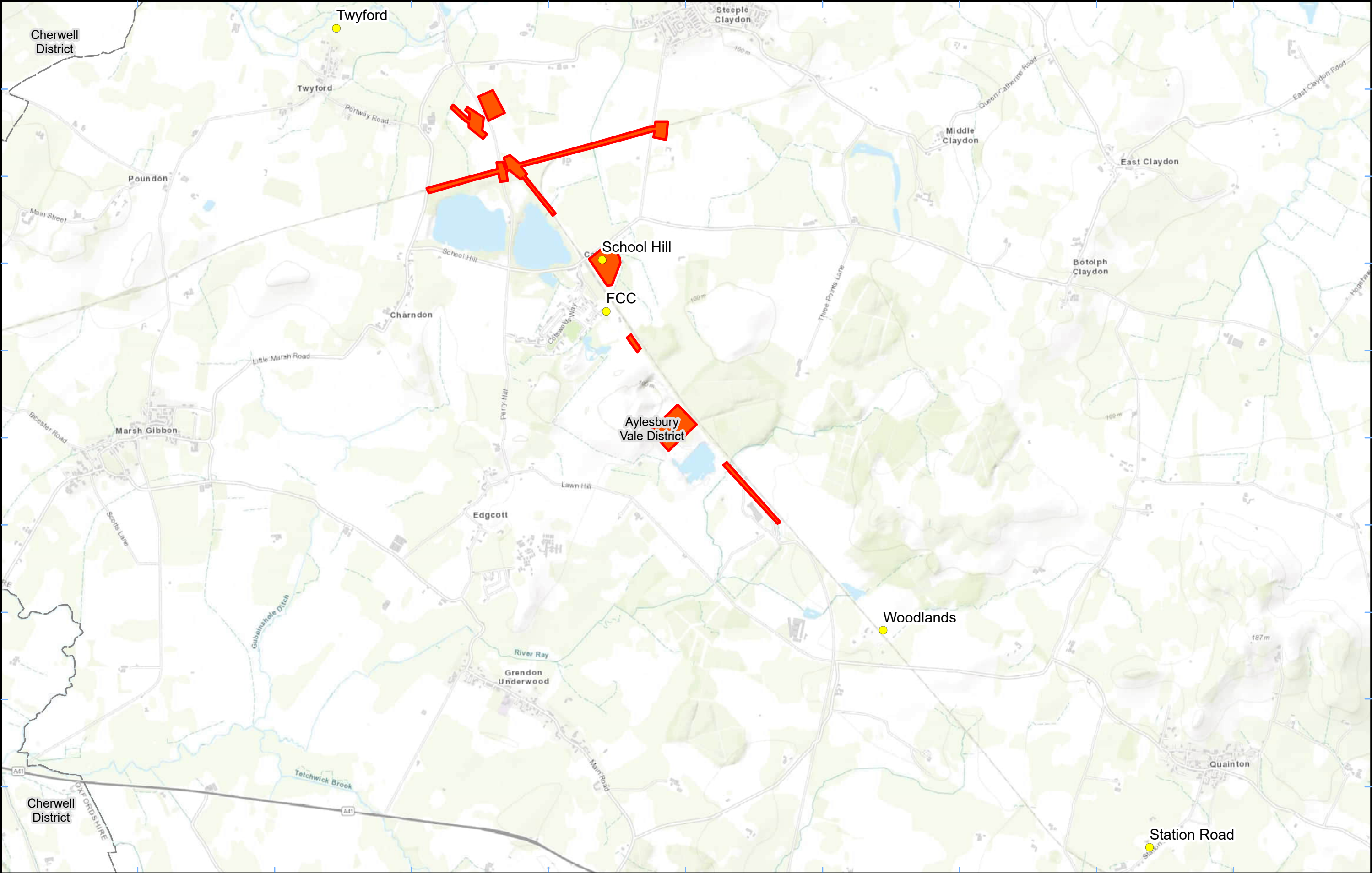
1,020

1,360

Metres

Scale at A3: 1:34,000

Date: 06/07/23



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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330

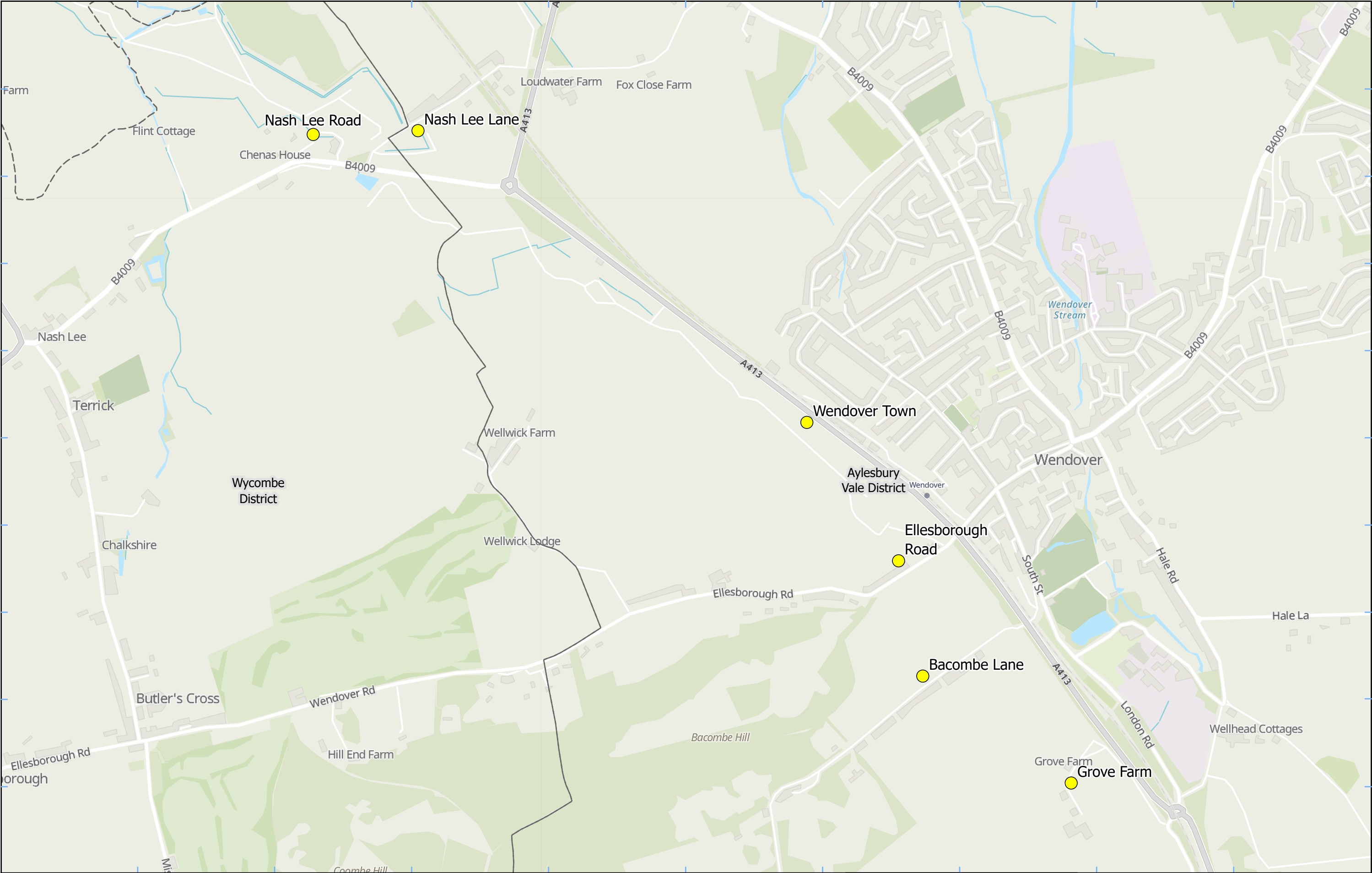
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990

1,320

Metres

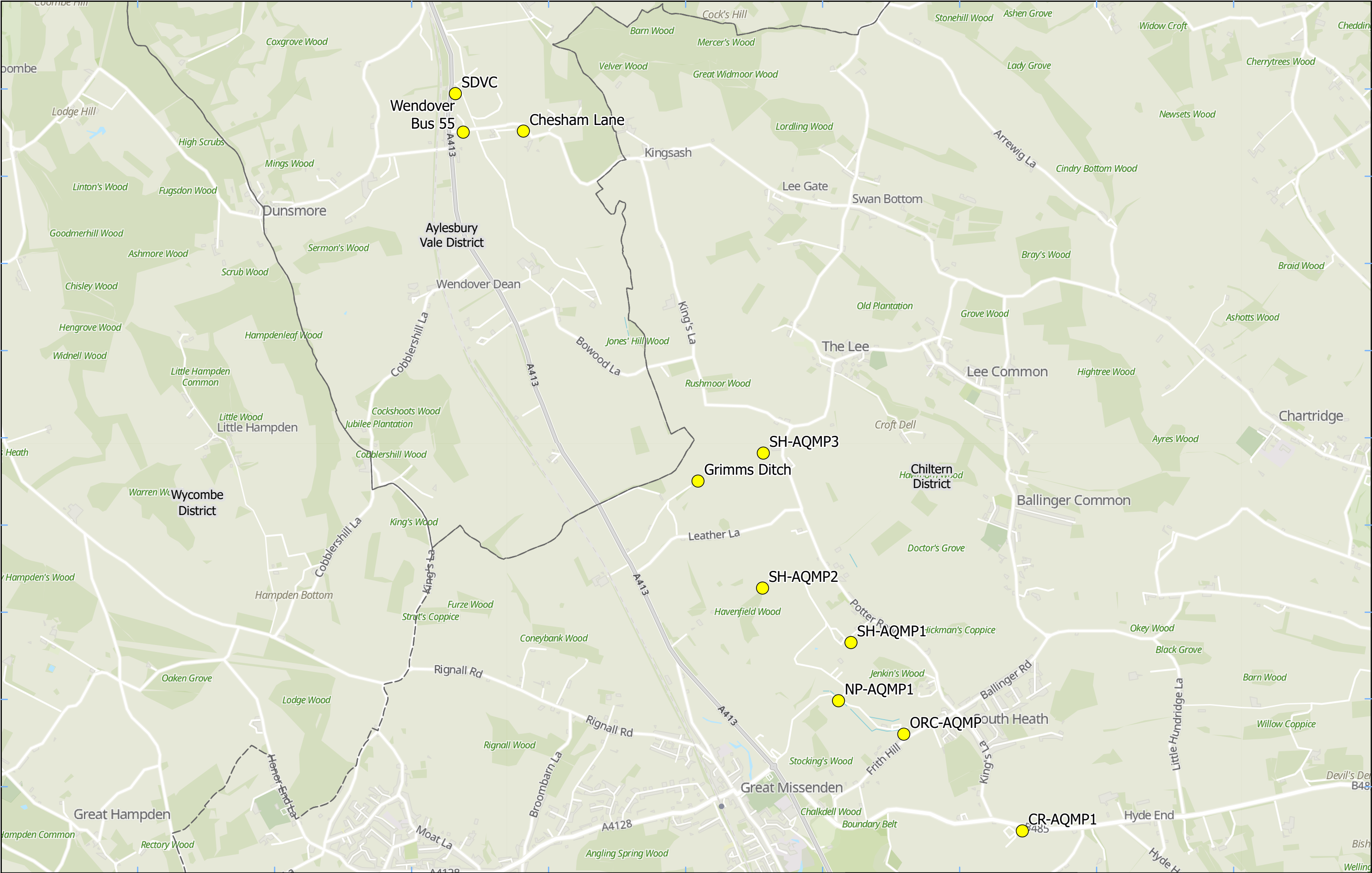
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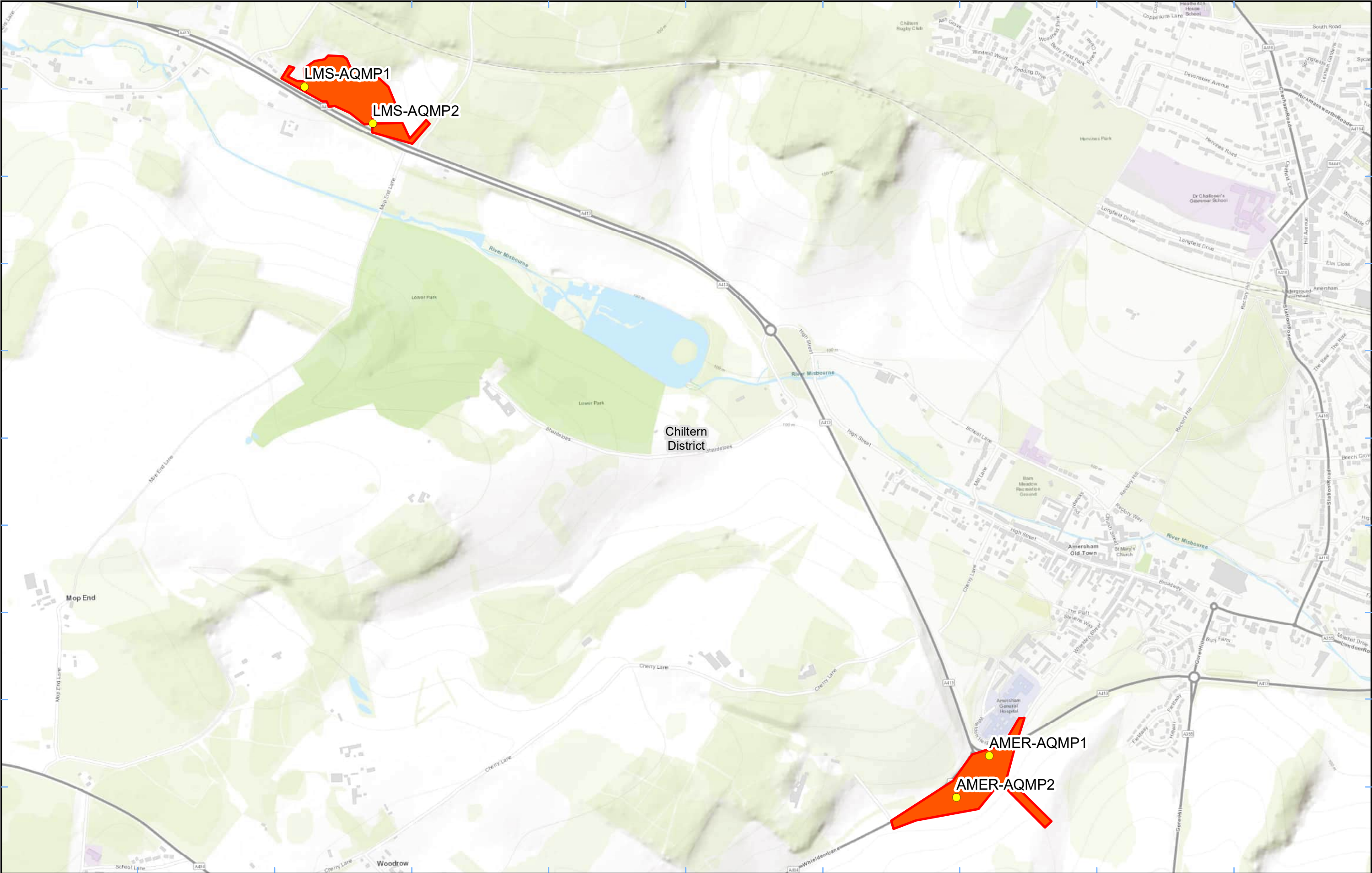
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	Monitoring Locations In BC (Sheet 3)	Buckinghamshire Council

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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
Worksite and Monitoring Locations In BC (Sheet5)
Buckinghamshire County

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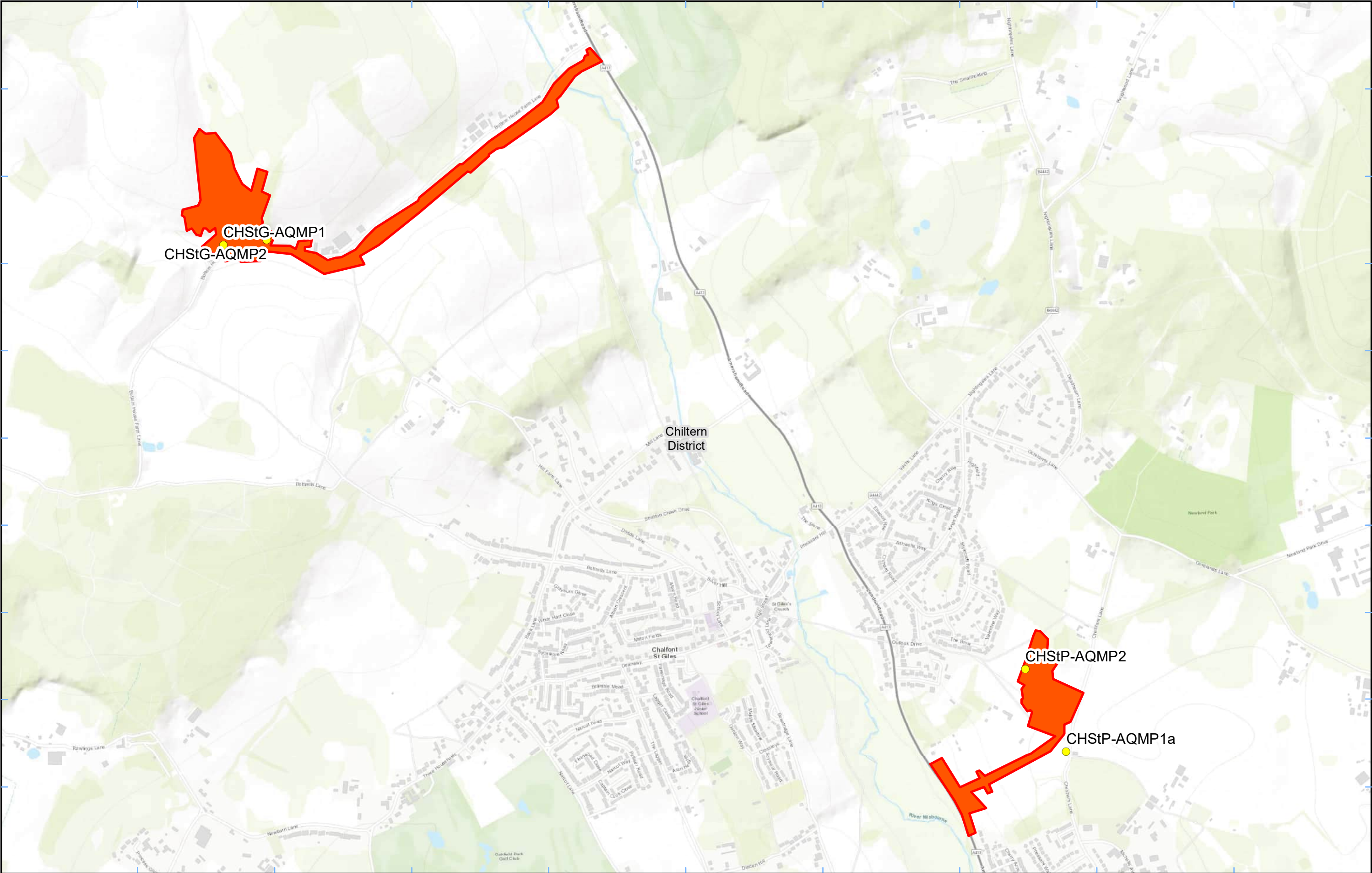
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Doc Number:

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Metres

Date: 22/02/22



Legend

● Dust Monitor

□ District Borough Unitary Boundaries

■ Worksite

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Map Number

Map Name

**Monitoring Locations
In BC (Sheet 6)**

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0 120 240 360 480
Metres

Date: 22/02/22



Legend

● Dust Monitor District Borough Unitary Boundaries

Worksite

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Map Number
Map Name
Worksite and Monitoring Locations In BC (Sheet 7)
Buckinghamshire County



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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 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	Data capture (%)
CVW-AQMP1	503612, 189846	On the north boundary of LTP1	M	Yes	No	5.4	1.0	58.0	0	100.0
CHStP-AQMP1a	500093, 192996	Relocated from CHStP-NMP1 to site-boundary outside residence	M	Yes	Yes	5.1	1.0	42.0	0	59.4
CHStP-AQMP2	499951, 193282	On the western boundary of the site	M	Yes	Yes	3.8	1.0	42.0	0	99.4
AMER-AQMP1	495367, 196722	On the north-eastern boundary of Amersham	M	Yes	Yes	6.5	1.0	85.0	0	100.0
CHStG-AQMP1	497170, 194752	On the southern boundary close to Hobbs Hole Cottage	M	Yes	Yes	5.8	1.0	47.0	0	100.0
CHStG-AQMP2	497320, 194770	On southern boundary next to carpark	M	Yes	Yes	6.5	1.0	51.0	0	99.7
LMS-AQMP1	493190, 198848	On the south-west of the site	M	Yes	Yes	8.2	1.0	50.0	0	100.0
LMS-AQMP2	493407, 198731	On the south-east of the site	M	Yes	Yes	6.4	1.0	51.0	0	100.0
CR-AQMP1	491291, 201143	On the Chesham Road Vent Shaft	M	Yes	Yes	7.1	1.0	51.0	0	96.1
ORC-AQMP	490503, 201786	Orchard Cottage South-eastern Site Boundary	M	Yes	Yes	6.3	1.0	47.0	0	100.0

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	Data capture (%)
NP-AQMP1	490069, 202008	North Portal Site Entrance	M	Yes	Yes	7.9	1.0	49.0	0	84.2
SH-AQMP1	490152, 202395	Park Farm	M	Yes	Yes	18.9	8.6	64.3	0	100.0
SH-AQMP2	489564, 202757	King's Lane	M	Yes	Yes	8.3	6.8	15.0	0	100.0
SH-AQMP3	489569, 203654	Leather Lane	M	Yes	Yes	20.6	7.8	71.1	0	100.0
School Hill (CAL-AQMP2) - Dust	469003, 224740	School Hill Compound	M	Yes	Yes	10.0	1.0	42.0	0	100.0
School End - Dust	463666, 230049	School End, Chetwode	M	Yes	Yes	28.5	8.0	141.0	0	100.0
Grimms Ditch - Dust	489135, 203468	Leather Lane, The Lee, South Heath	M	Yes	Yes	6.5	1.0	48.0	0	99.7
Chesham Lane - Dust	487974, 205794	Chesham Lane, The Lee, Wendover	M	Yes	Yes	6.8	1.0	50.0	0	100.0
Wendover Bus 55 - Dust	487574, 205787	Chesham Lane, The Lee, Wendover	M	Yes	Yes	6.8	1.0	50.0	0	100.0
Twyford - Dust	466544, 226883	Twyford, Buckinghamshire	M	Yes	Yes	6.6	1.0	52.0	0	100.0
Chetwode/Hermitage - Dust	463936, 229521	Hermitage, Chetwode	M	Yes	Yes	28.5	8.0	141.0	0	100.0
Turweston North - Dust	460439, 237140	Turweston, Buckinghamshire	M	Yes	Yes	45.6	1.0	101.0	0	95.8
FCC - Dust	469042, 224263	Adjacent Red Kite View, Calvert	M	Yes	Yes	9.8	1.0	37.0	0	100.0
Ellesborough Road - Dust	486458, 207550	Ellesborough Road, Wendover	M	Yes	Yes	7.5	1.0	58.0	0	100.0
Nash Lee Road - Dust	484766, 208782	Nash Lee Lane (west)	M	Yes	Yes	7.6	1.0	58.0	0	100.0

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	Data capture (%)
Nash Lee Lane - Dust	485069 , 208793	Nash Lee Lane (east)	M	Yes	Yes	7.2	1.0	54.0	0	100.0
Bacombe Lane – Dust	486528 , 207217	Bacombe Lane, Wendover	M	Yes	Yes	6.2	1.0	50.0	0	100.0
SDVC – Dust	487522, 206043	Small Dean Viaduct, London Road	M	Yes	Yes	6.4	1.0	46.0	0	100.0
Station Road – Dust	474068, 219307	Station Road, Quainton	M	Yes	Yes	6.4	1.0	54.0	0	100.0
Wendover Town - Dust	486193, 207950	Wendover Bypass, Wendover	M	Yes	Yes	6.8	1.0	52.0	0	100.0
Woodlands - Dust	471603, 221315	Station Rd, Quainton, Woodlands Farmhouse	M	Yes	Yes	7.9	1.0	151.0	0	100.0
Grove Farm	486957, 206908	Grove Farm, London Road, Wendover	M	Yes	Yes	7.3	1.0	51.0	0	100.0

Figure 8: Continuous dust 1-hour mean indicative PM₁₀ concentration for all dust monitors

