

Air Quality and Dust Monitoring Monthly Report – June 2021

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) area during June 2021.
- 1.1.2 Figures 1 to 7 in Appendix A present the current worksites together with the dust monitoring locations for June 2021.
- 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 phase of works commenced within BC during January 2020 and is expected to be completed by 2025. The current worksites at Colne Valley Viaduct (CVV) LTP1, Chalfont St Peter Vent Shaft, Amersham Vent Shaft, Chalfont St Giles Vent Shaft, Little Missenden Vent Shaft, Lower Bottom House Farm Lane, DC2J Haul Road and Compound site and Calvert are presented in Appendix A, Figures 1 to 7. Activities for each worksite during June 2021 included:

Colne Valley Viaduct (CVV) LTP1:

- Jetty piling: piling plant form, support plant and compound;
- Cofferdam Sheet Piling: piling plant and support plant;
- Permanent main piling works: boring pile, de-sanding pile bore at pile position, installing reinforcement cage and concreting pile, bored pile break-down to prepare pile surface, grout curtain around viaduct pile groups maintenance plant;
- Haul road 28,220 - 29,200: civil works, earthworks and drainage;
- North Embankment Compound: compound operation;
- Ground investigation works: GI works and overwater GI works;
- Affinity Water Access Road: pavement construction;
- DWSC Compound: compound operation and de-sanding compound;
- River Colne Realignment; and
- Thames water diversion.

Chalfont St Peter Vent Shaft:

- Stockpile management at ventilation shaft site and management of temporary stockpile;
- Shaft dewatering;
- Shaft excavation after 25 m depth;
- All auxiliary plant 01-06; and
- Post Treatment Injection works including dewatering.

Amersham Vent Shaft:

- General site Activity: general plant;
- Site establishment works;
- Site installations;
- Earthworks: stockpile management;
- All storage, reinforcement, crane bases & workshops;
- Installation of vehicle restraint system;
- Water Treatment;
- D-wall Works: civil works, construct guide walls, excavation, concreting, desanding, mud treatment, delivery and assembly; and
- Installation of Vehicle Restraint System.

Chalfont St Giles Vent Shaft:

- General site activity: general plant;
- Earthworks: stockpile management;
- Post treatment: drilling and grouting;
- D-wall works: excavation, de-sanding, mud treatment and concreting; and
- Water Treatment.

Little Missenden Vent Shaft:

- General Site Activity: general plant;
- Earthworks: stockpile management;
- Pre and Post treatment: drilling and grouting;
- D-Wall Works: civil works; and
- Water Treatment.

Lower Bottom House Farm Lane:

- Earthworks including excavation, stockpiling, and material movement;
- Construction works, including the reconstruction and widening of the existing Bottom House Farm Lane, topsoil stripping, utility diversions, installations of ducting and drainage, lay and compact CBGM, lay asphalt and compact, road lining, signage and landscaping; and
- Track out activities.

DC2J Haul Road and Compound site:

- Construction of a 4.6 km long access road between Quainton and Greatmoor Sidings; and
- The construction of a satellite compound at the southern end of the access road.

Calvert Worksites:

- West Street Compound mobilisation;
- School Hill Batching Plant Compound mobilisation;
- Decommissioned SGN pipeline removal;
- Addison Road overbridge enabling works;
- East West Rail overbridge;
- Charndon Lodge underbridge;
- Perry Hill overbridge;
- Haul road – temporary bridge over Gawcott Road;
- Site access road – at grade crossing; and
- FCC offloading platform mobilisation.

1.1.5 Seventeen (17) dust monitors are installed around the worksites, where demolition, earthworks, construction and trackout activities are underway. Two (2) are located at the CVV LTP1 compound, two (2) at the Chalfont St Peter worksite, two (2) at the Amersham worksite, two (2) at the Chalfont St Giles worksite, two (2) at the Little Missenden worksite, two (2) at Lower Bottom House Farm Lane site, two (2) at the DC2J Haul Road and Compound worksite and three (3) at Calvert Worksites. Dust Risk Assessments for each worksite classified a medium dust risk for works currently active on site.

1.1.6 Dust monitoring locations and results for June 2021 are presented in Appendix B, Table 1, together with a line chart of monthly data from each dust monitor presented in Figures 8 to 21. 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 There were multiple dust trigger alerts recorded during the monitoring period (June 2021). Trigger alerts are presented in Appendix B, Table 2. Trigger alerts were predominantly out of working hours, good housekeeping practices continue to be implemented, and reminders to all site teams on the importance of dust suppression. All other results were in line with expected ranges.

1.1.9 Data capture for various monitors was below 90% for the month of June 2021. The data losses are due to ongoing power interruptions, including loss of solar and battery power caused by a lack of sunlight, and loss of mains power supply, which have since been resolved. Missing data for monitor CAL-AQMP2 was due to a fault with the monitor that is under investigation.

1.1.10 There were no (0) complaints received, related to dust or air quality, during the reporting period (June 2021).

Appendix A – Worksite and Dust Monitoring Locations


Figure 1 to Figure 7: Current monitoring locations and worksites within Buckinghamshire Council during June 2021



Legend
 ● Dust Monitor □ District Borough Unitary Boundaries
 ■ Worksite

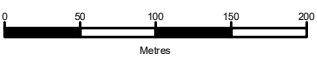
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Map Number
 Map Name
Worksite and Monitoring Locations at Colne Valley Viaduct, BC (Sheet 1)
 Buckinghamshire Council

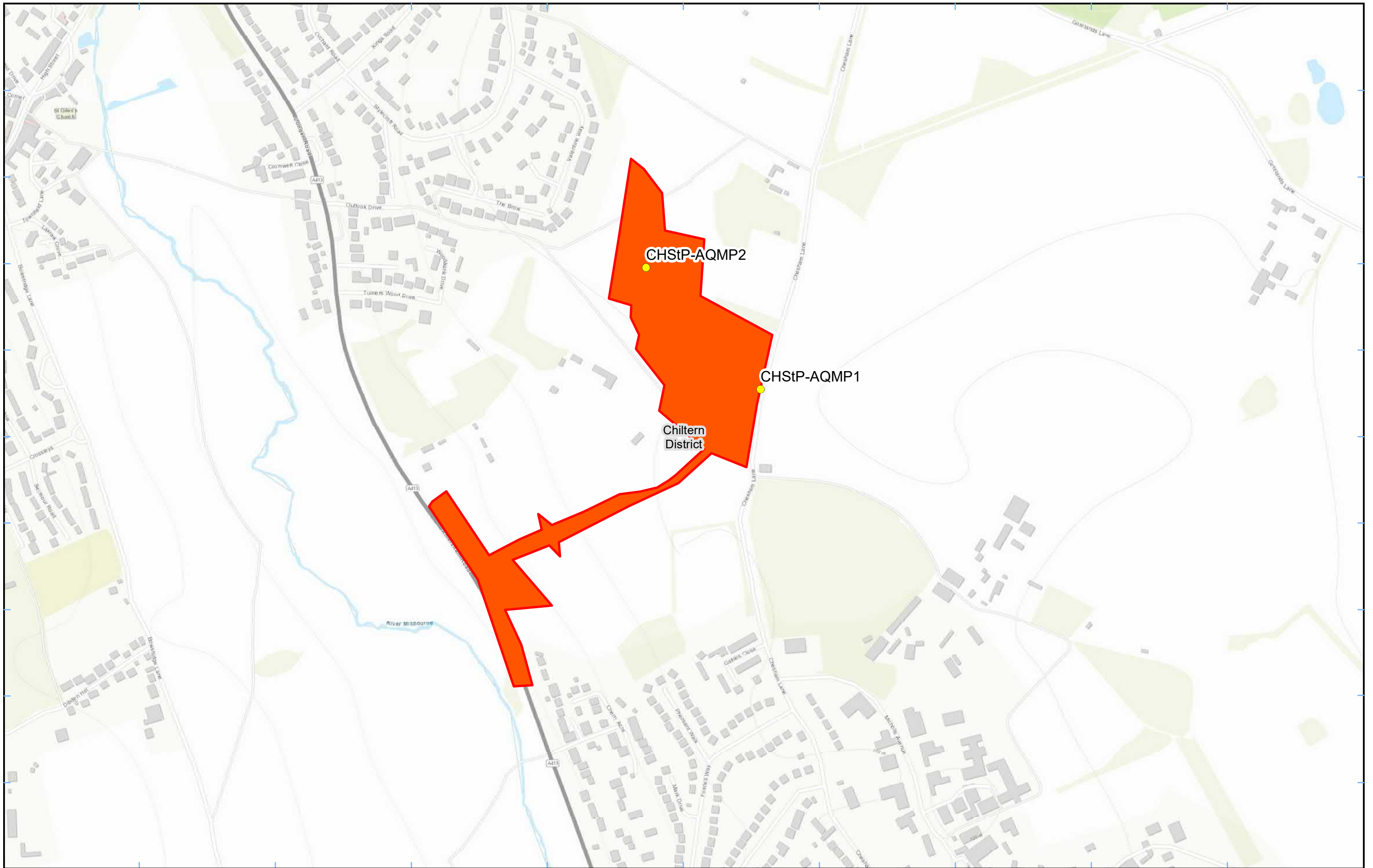

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Legend
 Dust Monitor District Borough Unitary Boundaries
 Worksite

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Map Number
 Map Name
Worksite and Monitoring Locations at Chalfont St Peter, BC (Sheet 2)
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Legend

- Dust Monitor
- District Borough Unitary Boundaries
- Worksite

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| |
|--|
| Map Number |
| Map Name |
| Worksite and Monitoring Locations at Amersham, BC (Sheet 3) |
| Buckinghamshire Council |

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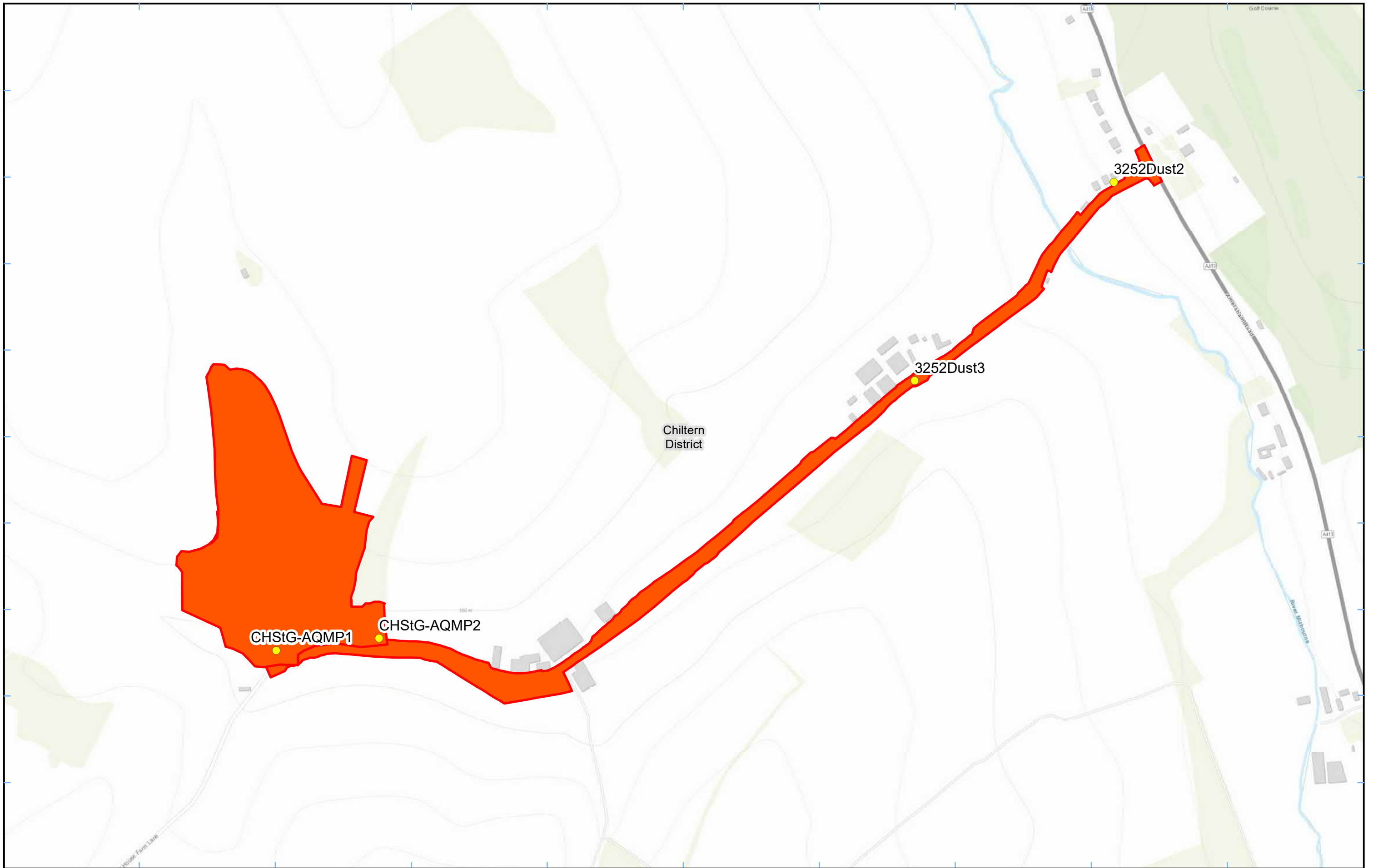
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 Dust Monitor
 Worksite
 District Borough Unitary Boundaries

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Map Number
 Map Name
**Worksites and Monitoring Locations
 at Chalfont St Giles and Lower Bottom
 House Farm Lane, BC (Sheet 4)**
Buckinghamshire Council

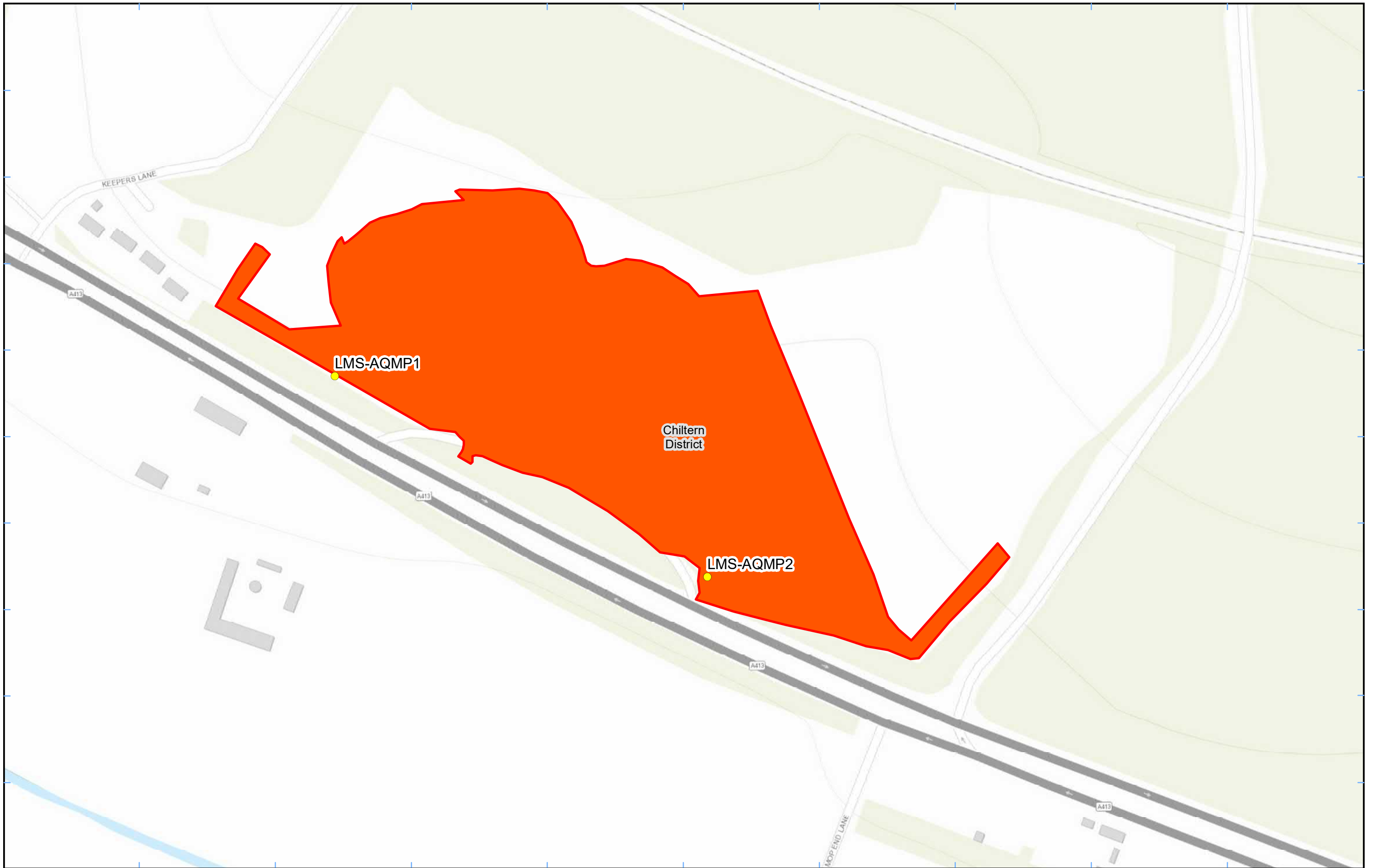
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 Dust Monitor
 Worksite
 District Borough Unitary Boundaries

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Map Number
 Map Name
Worksite and Monitoring Locations at Little Missenden, BC (Sheet 5)
 Buckinghamshire Council

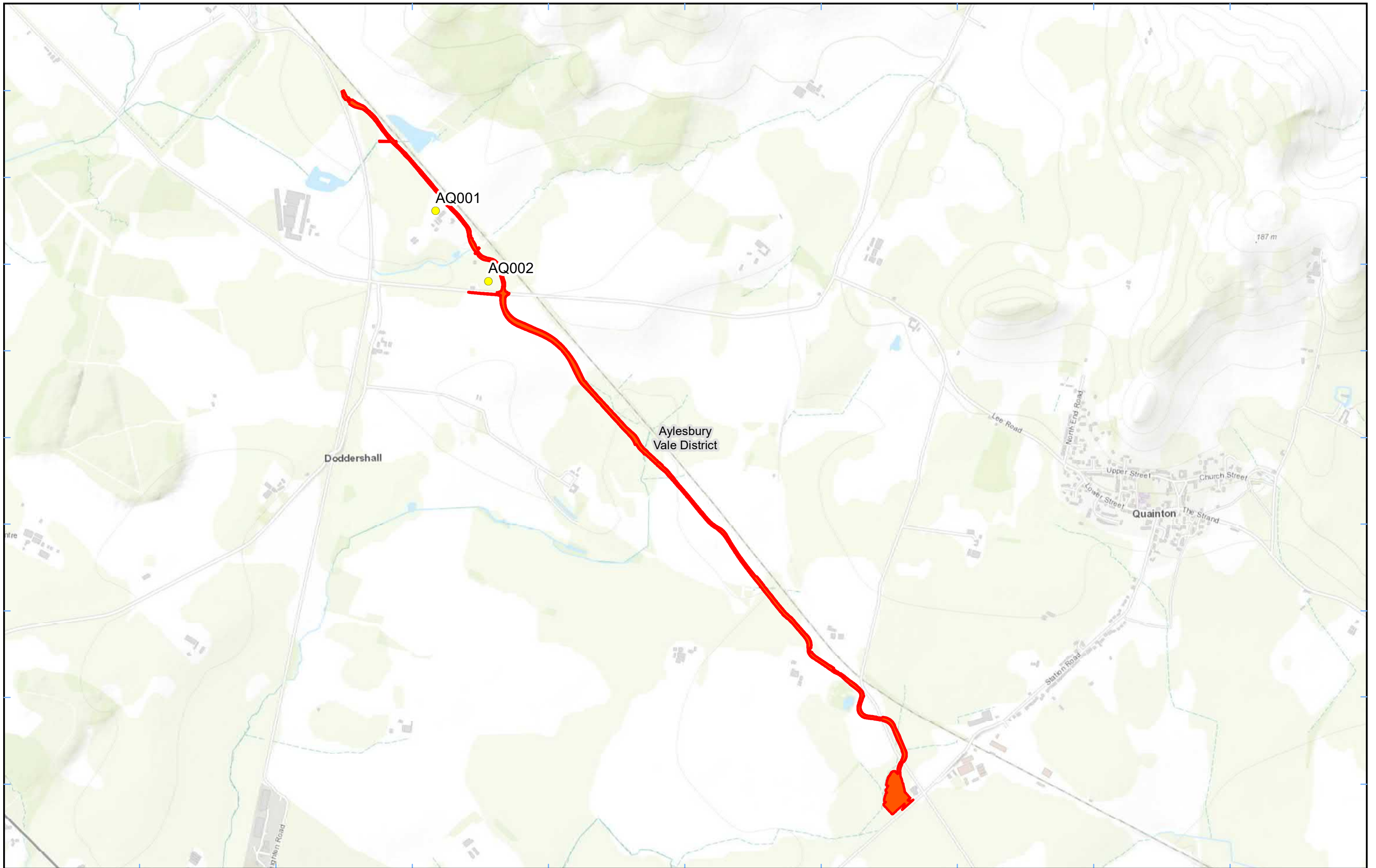
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Legend
 Dust Monitor  District Borough Unitary Boundaries
 Worksite

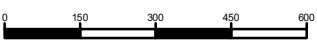
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Map Number
 Worksite and Monitoring Locations
 In DC2J, BC (Sheet 6)
 Buckinghamshire Council

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Figure 7: Buckinghamshire Council Worksite and Monitoring locations during June 2021



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and June 2021 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 (%) |
|--------------------|-------------------|---|---------------------------|--------------------------------------|---|---|--|--|---|------------------|
| CVV-AQMP1 | 503612, 189846 | On the north boundary of LTP1 | M | Yes | Yes | 7.5 | 1.0 | 34.0 | 0 | 99 |
| CVV-AQMP2 | 503662, 189775 | On the south boundary of LTP1 | M | Yes | Yes | 7.4 | 42.0 | 1.0 | 0 | 100 |
| CHStP-AQMP1 | 500118, 193105 | On the eastern boundary of the site with Chesham Lane | M | Yes | Yes | 7.5 | 72.0 | 1.0 | 0 | 100 |
| CHStP-AQMP2 | 499951, 193282 | On the western boundary of the site | M | Yes | Yes | 6.9 | 47.0 | 1.0 | 0 | 100 |
| AMER-AQMP1 | 495418, 196737 | On the north-eastern boundary of Amersham | M | Yes | Yes | 7.0 | 34.0 | 1.0 | 0 | 100 |
| AMER-AQMP2 | 495324, 196556 | On the south-western boundary of Amersham | M | Yes | Yes | 7.3 | 43.0 | 1.0 | 0 | 83 |
| CHStG-AQMP1 | 497170, 194752 | On the southern boundary close to Hobbs Hole Cottage | M | Yes | Yes | 7.1 | 37.0 | 1.0 | 0 | 98 |
| CHStG-AQMP2 | 497320, 194770 | On southern boundary next to carpark | M | Yes | Yes | 7.0 | 38.0 | 1.0 | 0 | 98 |
| LMS-AQMP1 | 493190, 198848 | On the south-west of the site | M | Yes | Yes | 7.2 | 35.0 | 1.0 | 0 | 82 |
| LMS-AQMP2 | 493407, 198731 | On the south-east of the site | M | Yes | Yes | 3.5 | 27.0 | 1.0 | 0 | 68 |

| 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 (%) |
|--------------------|-------------------|---|---------------------------|--------------------------------------|---|---|--|--|---|------------------|
| 3252Dust2 | 498390, 195434 | On the boundary with Elm Tree Cottage, Bottom House Farm Lane | M | Yes | No | - | - | - | - | 0 |
| 3252Dust3 | 498100, 195145 | On the site boundary opposite Lower Bottom House Farm | M | Yes | No | 5.6 | 0.7 | 43.7 | 0 | 100.0 |
| AQ001 | 471424, 221337 | Woodlands Farm | M | Yes | No | 7.1 | 1 | 35 | 0 | 99.4 |
| AQ002 | 471654, 221030 | Woodlands Cottage | M | Yes | No | 7.3 | 1 | 34 | 0 | 100.0 |
| CAL-AQMP1 | 469040, 224261 | Adjacent Red Kite View, Calvert | M | Yes | Yes | 29.8 | 1.0 | 360.8 | 16 | 99.3 |
| CAL-AQMP2 | 469003, 224740 | School Hill Compound | M | Yes | Yes | 15.4 | 1.2 | 210.6 | 1 | 74.9 |
| CAL-AQMP3 | 468478, 225351 | Shepherds Furze Farm | M | Yes | Yes | 29.7 | 0.7 | 814.2 | 8 | 50.4 |

Table 2: Summary of exceedances during monitoring period (June 2021)

| Monitoring site ID | Period exceeding trigger alert and concentration recorded | Investigation | Outcomes / Resolution / Remedial measures implemented |
|--------------------|--|--|---|
| CAL-AQMP1 | 02/06/2021 12:00 – 13:00; 215.0 µg/m ³ 14:00 – 15:00; 248.0 µg/m ³ | At the time of the triggers, there were no dust generating activities being undertaken by EKFB. | N/A |
| CAL-AQMP1 | 07/06/2021 06:00 – 07:00; 298.0 µg/m ³ | Outside of site working hours | Good housekeeping practices continue to be implemented across the site. |
| CAL-AQMP1 | 07/06/2021 07:00 – 08:00; 254.7 µg/m ³ 08:00 – 09:00; 216.0 µg/m ³ | At the time of the triggers, there were no dust generating activities being undertaken by EKFB. | N/A |
| CAL-AQMP1 | 09/06/2021 05:00 – 06:00; 243.3 µg/m ³ 20:00 – 21:00; 190.8 µg/m ³ | Outside of site working hours | Good housekeeping practices continue to be implemented across the site. |
| CAL-AQMP1 | 09/06/2021 13:00 – 14:00; 219.4 µg/m ³ | At the time of the triggers, there were no dust generating activities being undertaken by EKFB. | N/A |
| CAL-AQMP3 | 14/06/2021 14:00 – 15:00; 211.7 µg/m ³ 15:00 – 16:00; 193 µg/m ³ | At the time of the trigger alert, an aggregate train was offloading material in close proximity to the monitoring location. An inspection was undertaken to determine if dust mitigation measures were effective or whether additional mitigation was required. During the inspection, it was noted that the site team were employing several dust mitigation controls including dampening down aggregate before offloading with water cannons, dampening down of stockpiles with water cannons and s tractor-bowser, discharging aggregate from reduced heights and slowing down the rate of discharge (in line with the CoCP). | Site teams continue to be vigilant in ensuring that dust mitigation measures are deployed across the site, in line with the CoCP. |
| CAL-AQMP3 | 14/06/2021 17:00 – 18:00; 676.3 µg/m ³ 18:00 – 19:00; 814.2 µg/m ³ 19:00 – 20:00; 555.8 µg/m ³ | Outside of site working hours. | Good housekeeping practices continue to be implemented across the site. |

| Monitoring site ID | Period exceeding trigger alert and concentration recorded | Investigation | Outcomes / Resolution / Remedial measures implemented |
|--------------------|--|---|---|
| CAL-AQMP2 | 15/06/2021 08:00 – 09:00 210.6 µg/m ³ | The monitor location is currently positioned behind the welfare cabins on the compound perimeter. At the time of the trigger alert, there were no dust generating activities being undertaken by EKFB. | Mitigation measures set out in the CoCP continue to be implemented across the site. |
| CAL-AQMP1 | 15/06/2021 15:00 – 16:00; 260.0 µg/m ³ | At the time of the triggers, there were no dust generating activities being undertaken by EKFB. | N/A |
| CAL-AQMP1 | 15/06/2021 18:00 – 19:00; 360.8 µg/m ³ 06:00 – 07:00; 260.9 µg/m ³ | Outside of site working hours | Good housekeeping practices continue to be implemented across the site. |
| CAL-AQMP1 | 16/06/2021 07:00 – 08:00; 240.2 µg/m ³ 08:00 – 09:00; 231.5 µg/m ³ 09:00 – 10:00; 228.6 µg/m ³ 16:00 – 17:00; 190.4 µg/m ³ 13:00 – 14:00; 306.0 µg/m ³ | At the time of the triggers, there were no dust generating activities being undertaken by EKFB. | N/A |
| CAL-AQMP3 | 23/06/2021 15:00 – 16:00; 227.0 µg/m ³ | As per the trigger alert received on the 14/06/2021, at the time of the trigger alert, an aggregate train was offloading material in close proximity to the monitoring location. An inspection was undertaken to determine if dust mitigation measures were effective or whether additional mitigation was required. During the inspection, it was noted that the site team were employing several dust mitigation controls including dampening down aggregate before offloading with water cannons, dampening down of stockpiles with water cannons and a tractor-bowser, discharging aggregate from reduced heights and slowing down the rate of discharge (in line with the CoCP). | Site teams continue to be vigilant in ensuring that dust mitigation measures are deployed across the site, in line with the CoCP. |
| CAL-AQMP3 | 25/06/2021 18:00 – 19:00; 362.6 µg/m ³ 23:00 – 00:00; 238.5 µg/m ³ | Outside of site working hours | Good housekeeping practices continue to be implemented across the site. |

Figure 8: Continuous dust 1-hour mean indicative PM₁₀ concentration for CVV-AQMP1 for June 2021

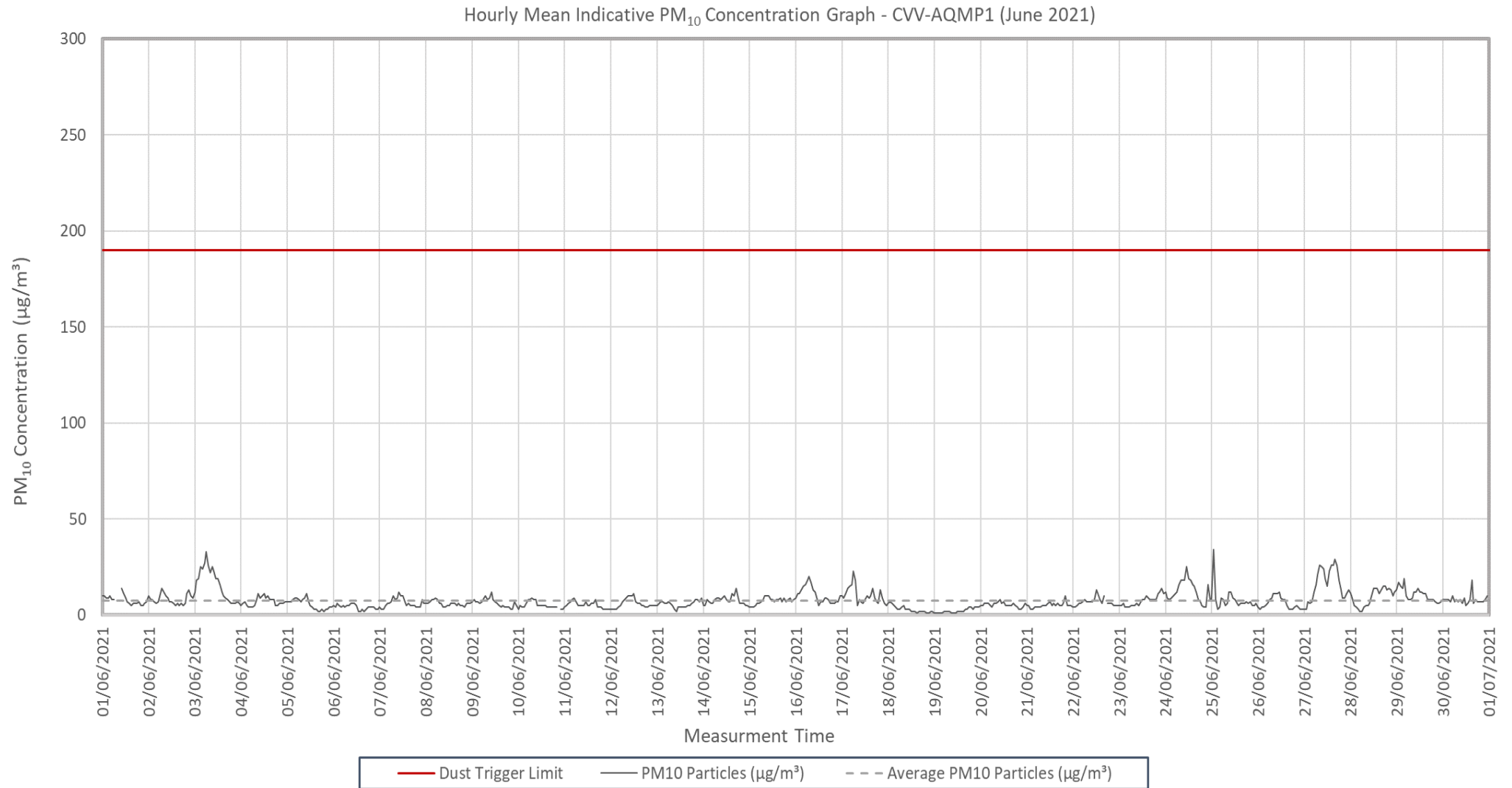


Figure 9: Continuous dust 1-hour mean indicative PM₁₀ concentration for CVV-AQMP2 for June 2021

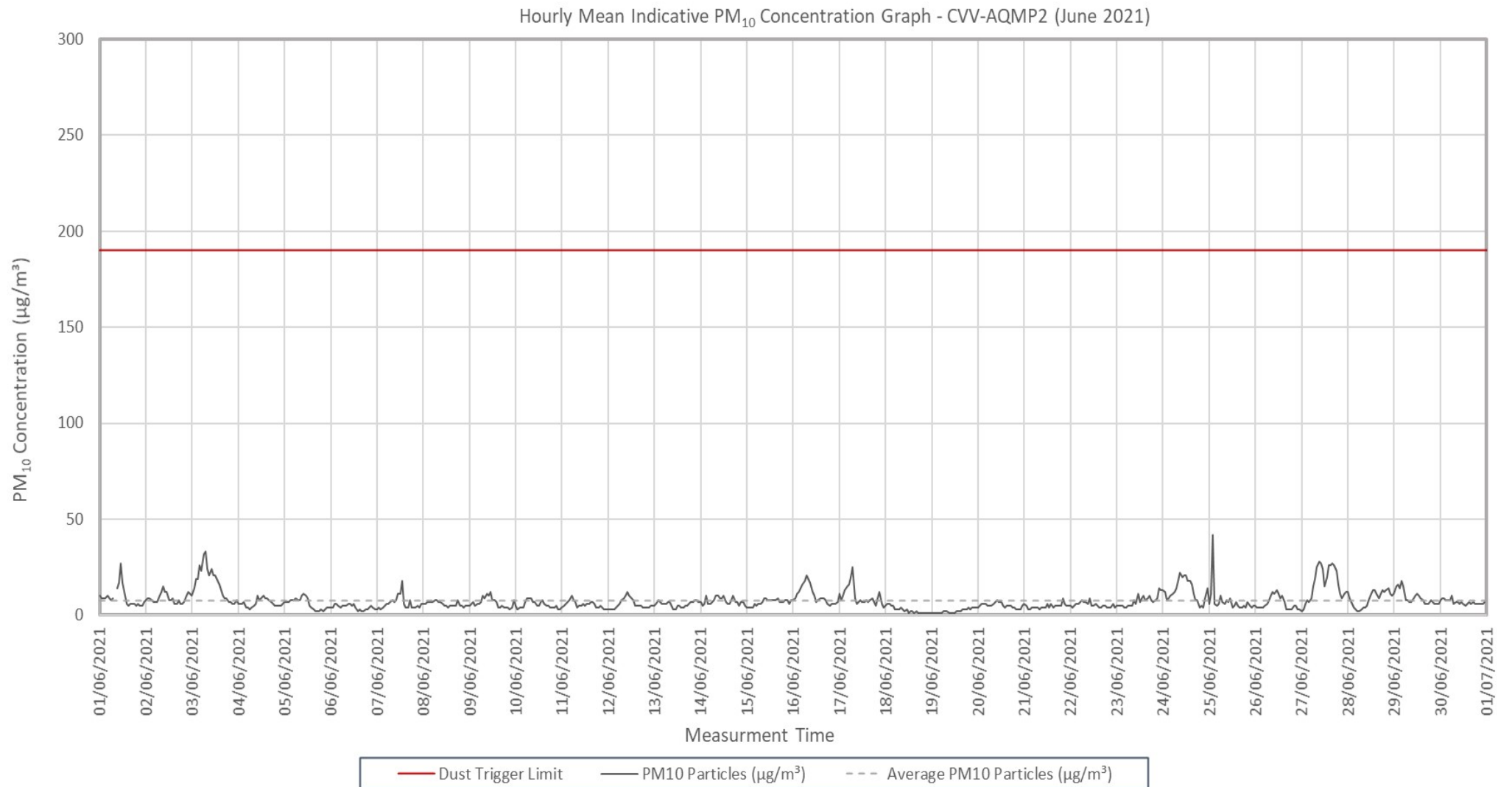


Figure 10: Continuous dust 1-hour mean indicative PM₁₀ concentration for CHStP-AQMP1 for June 2021

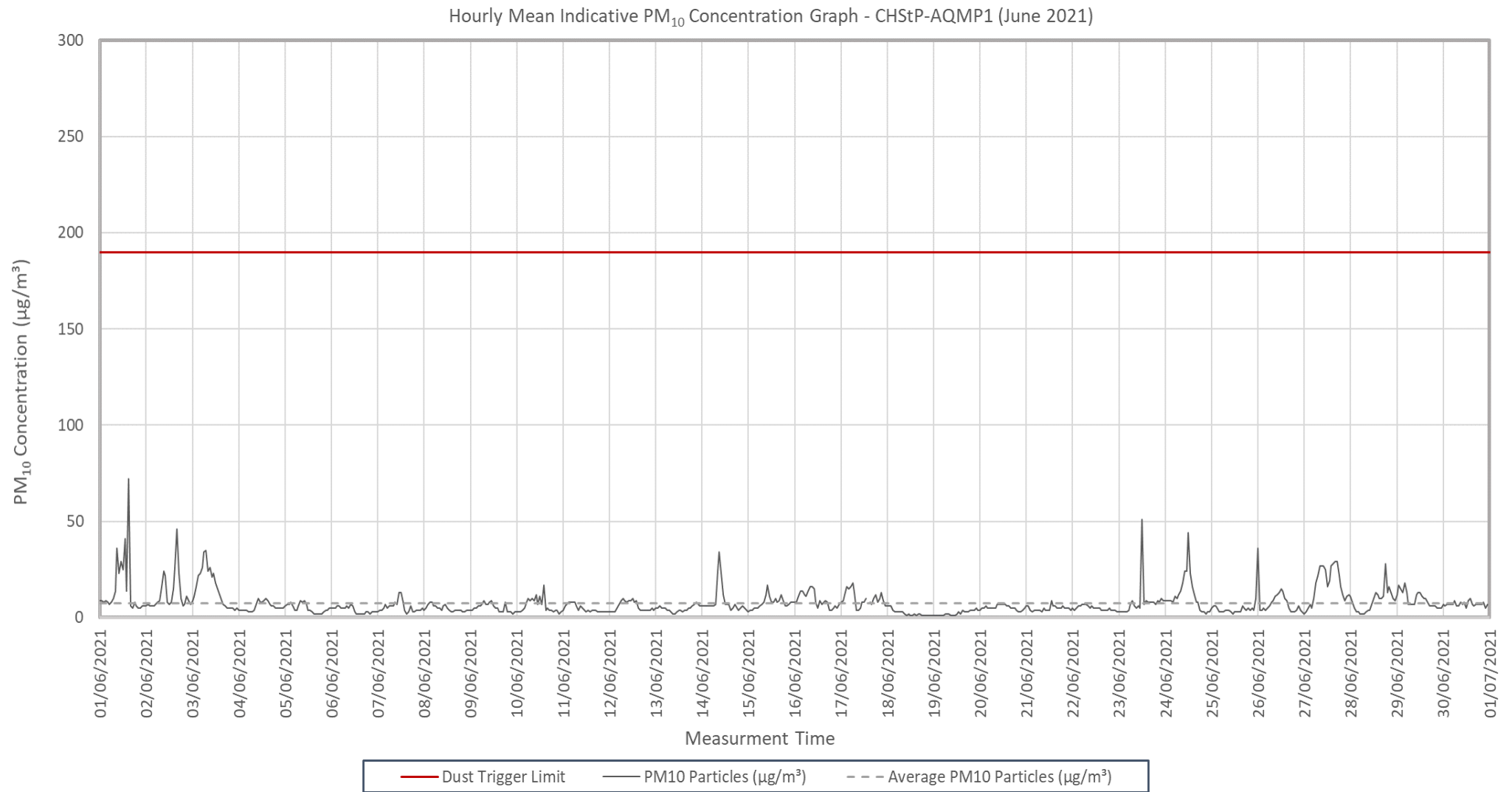


Figure 11: Continuous dust 1-hour mean indicative PM₁₀ concentration for CHStP-AQMP2 for June 2021

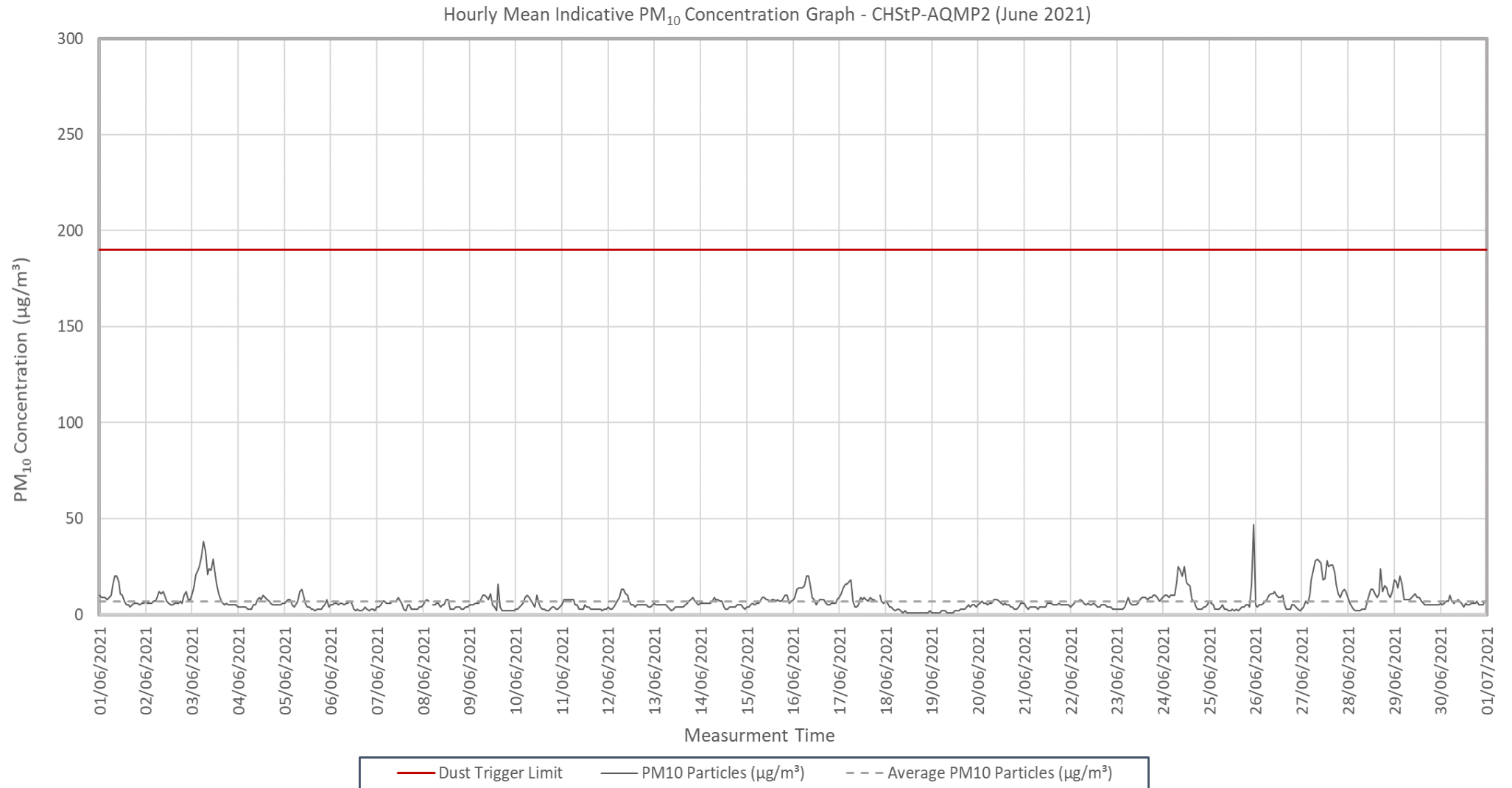


Figure 12: Continuous dust 1-hour mean indicative PM₁₀ concentration for AMER-AQMP1 for June 2021

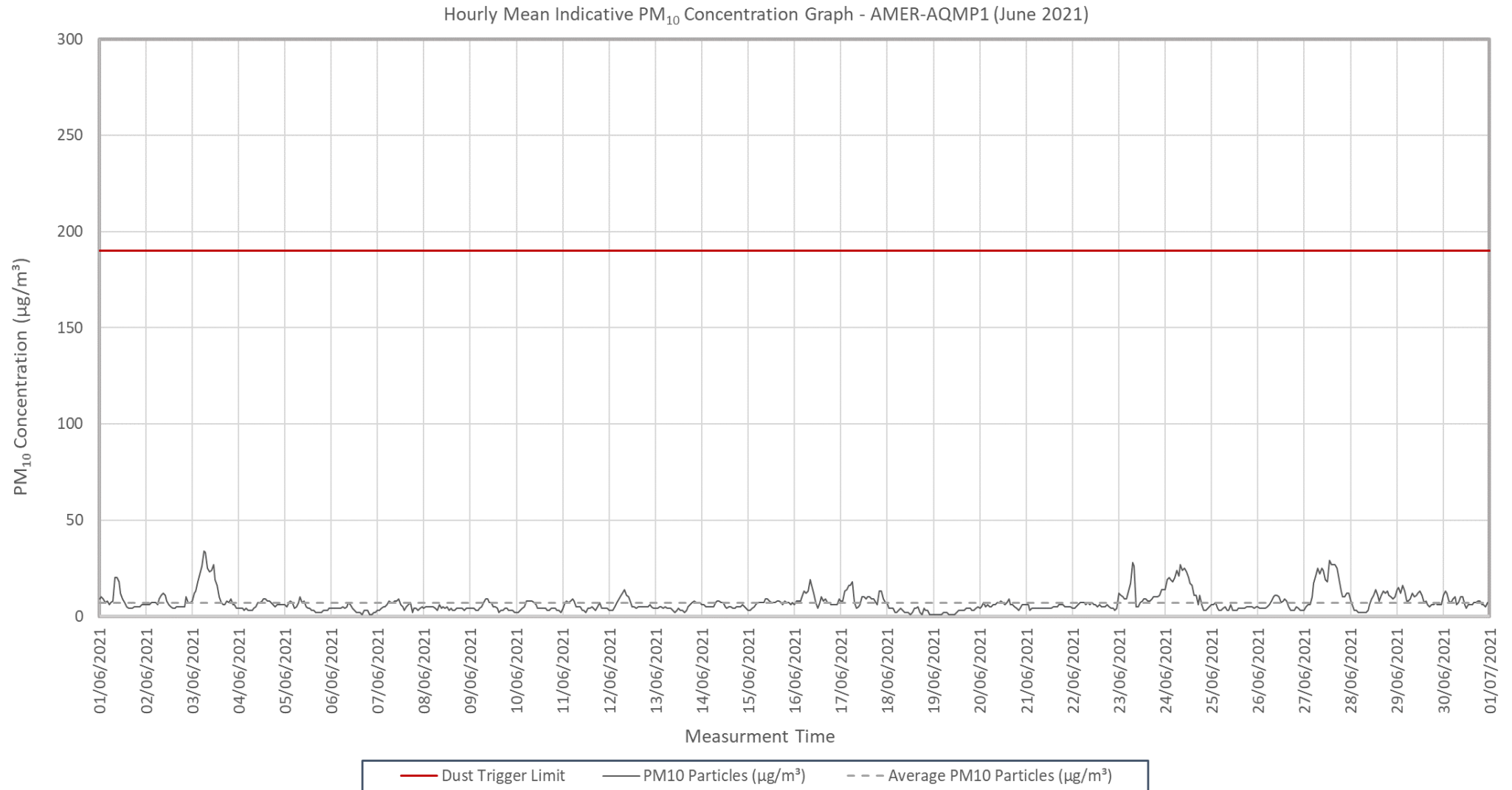


Figure 13: Continuous dust 1-hour mean indicative PM₁₀ concentration for AMER-AQMP2 for June 2021

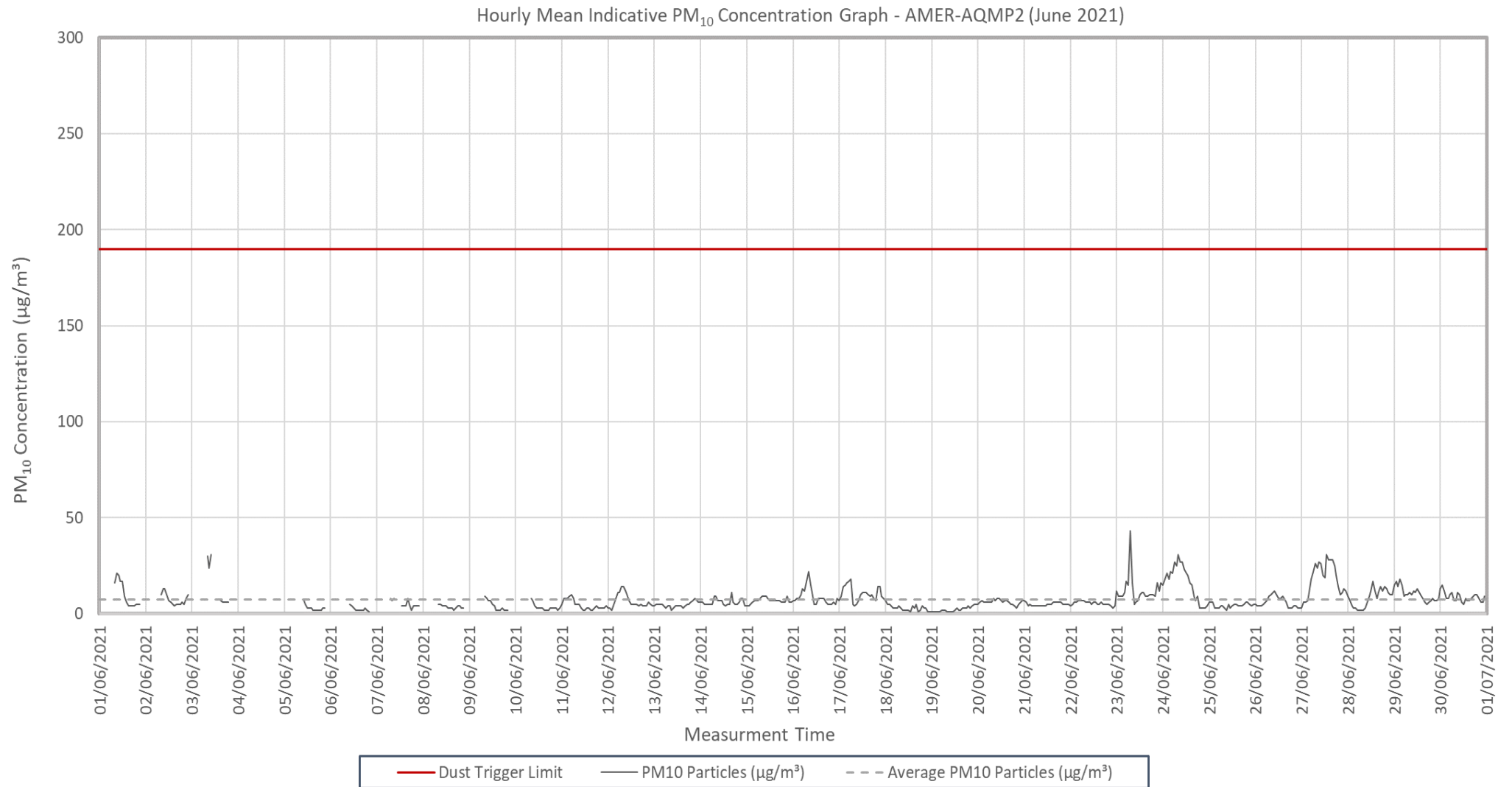


Figure 14: Continuous dust 1-hour mean indicative PM₁₀ concentration for CHStG-AQMP1 for June 2021

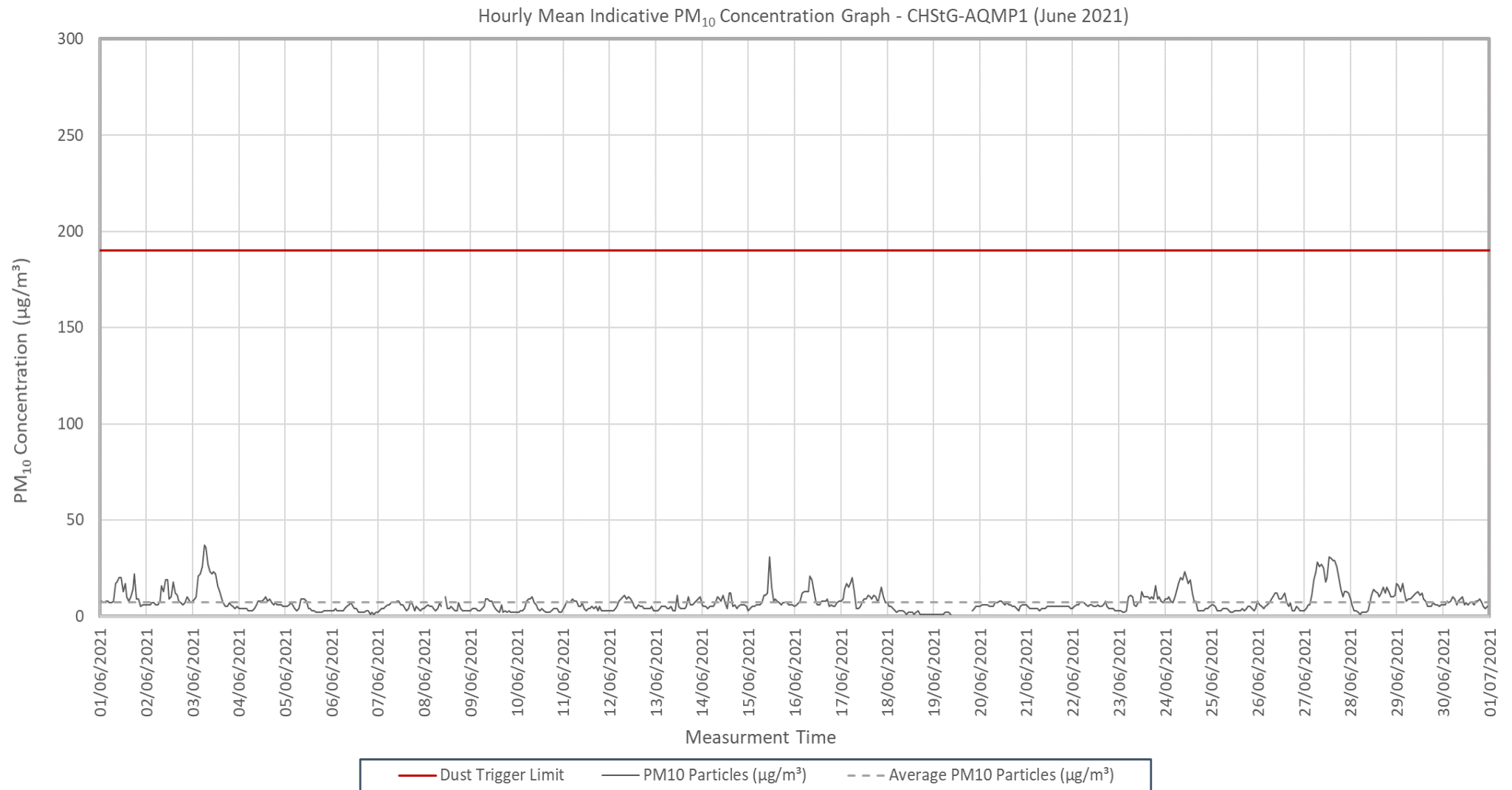


Figure 15: Continuous dust 1-hour mean indicative PM₁₀ concentration for CHStG-AQMP2 for June 2021

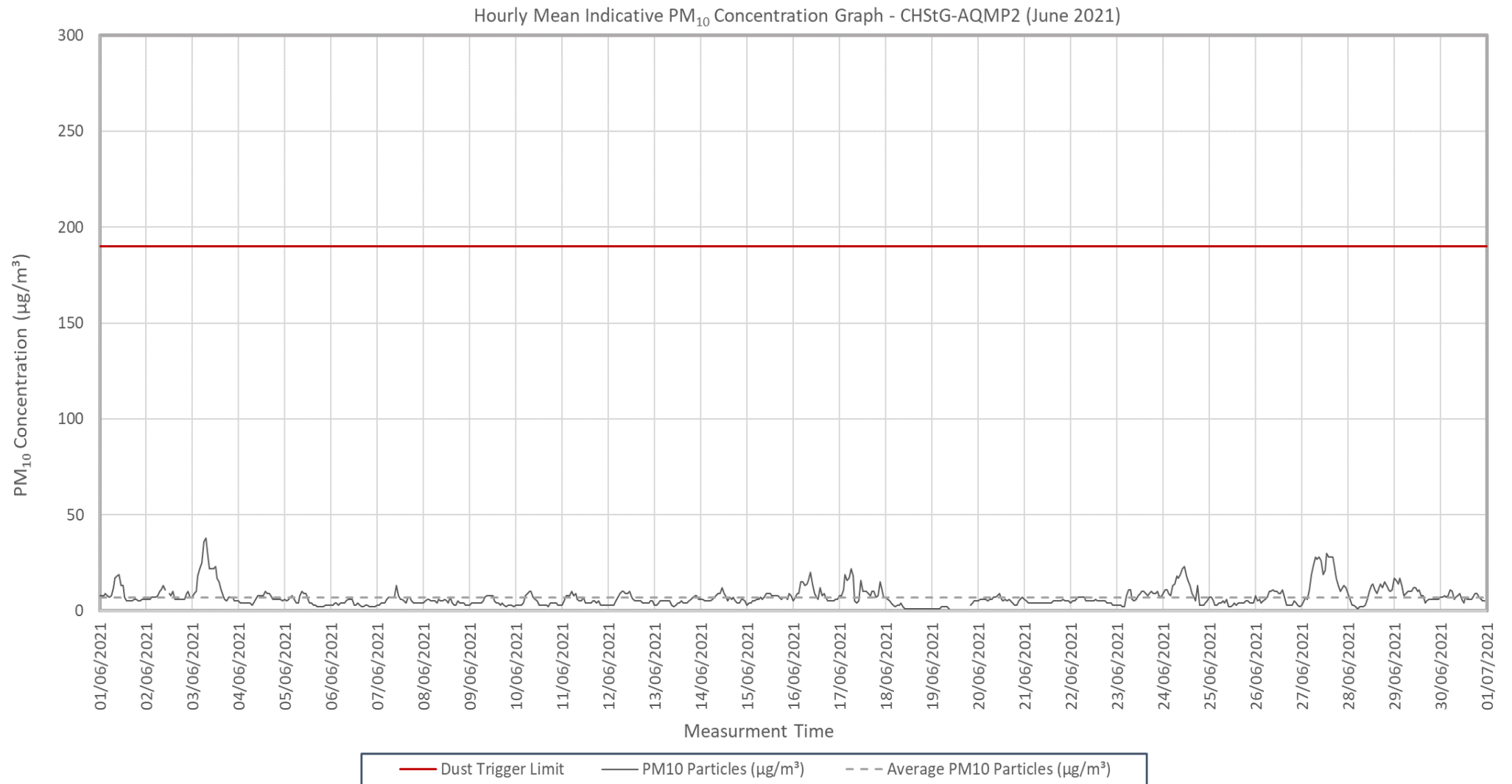


Figure 16: Continuous dust 1-hour mean indicative PM₁₀ concentration for LMS-AQMP1 for June 2021

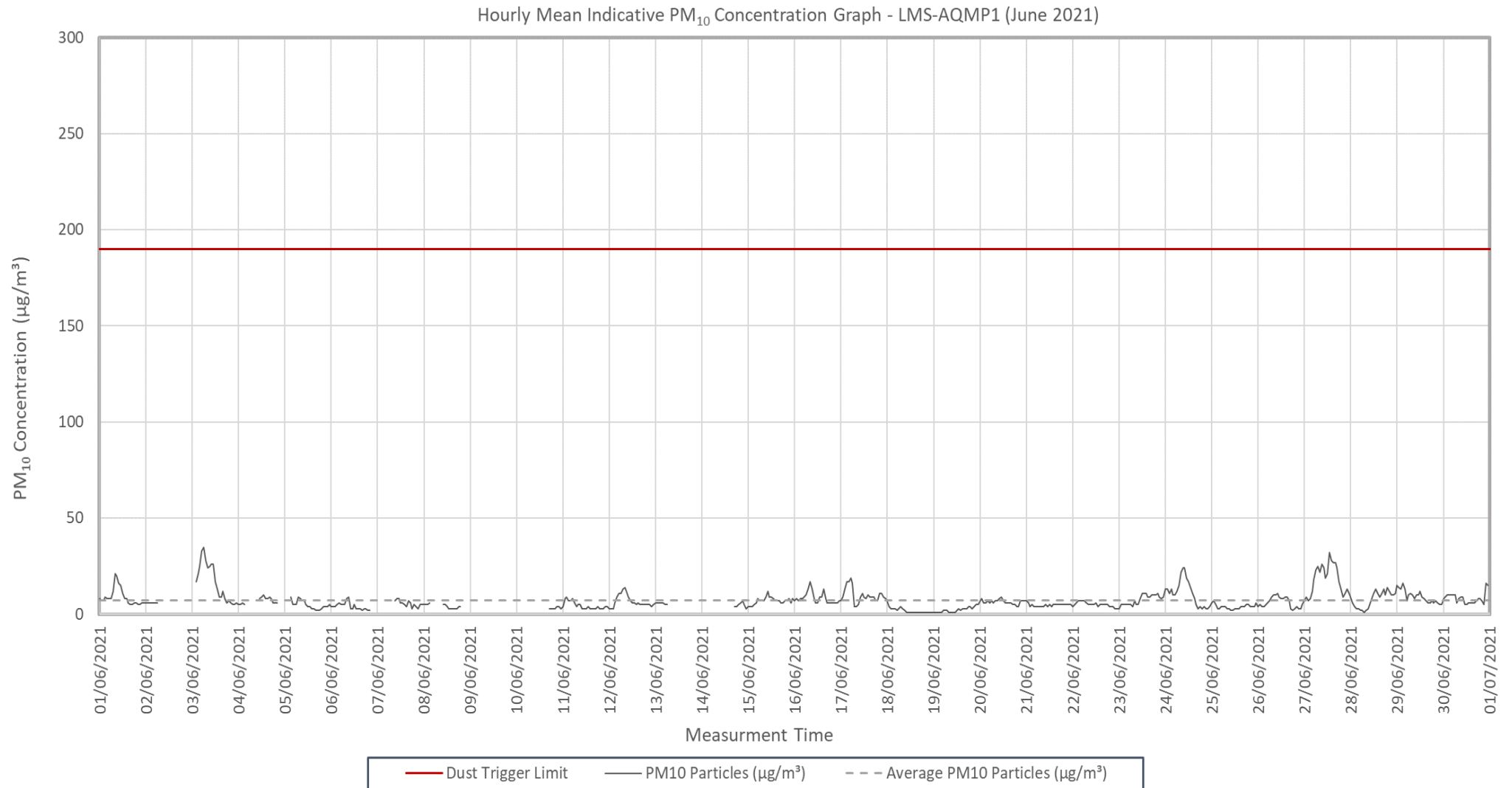


Figure 17: Continuous dust 1-hour mean indicative PM₁₀ concentration for LMS-AQMP2 for June 2021

Hourly Mean Indicative PM₁₀ Concentration Graph - LMS-AQMP2 (June 2021)

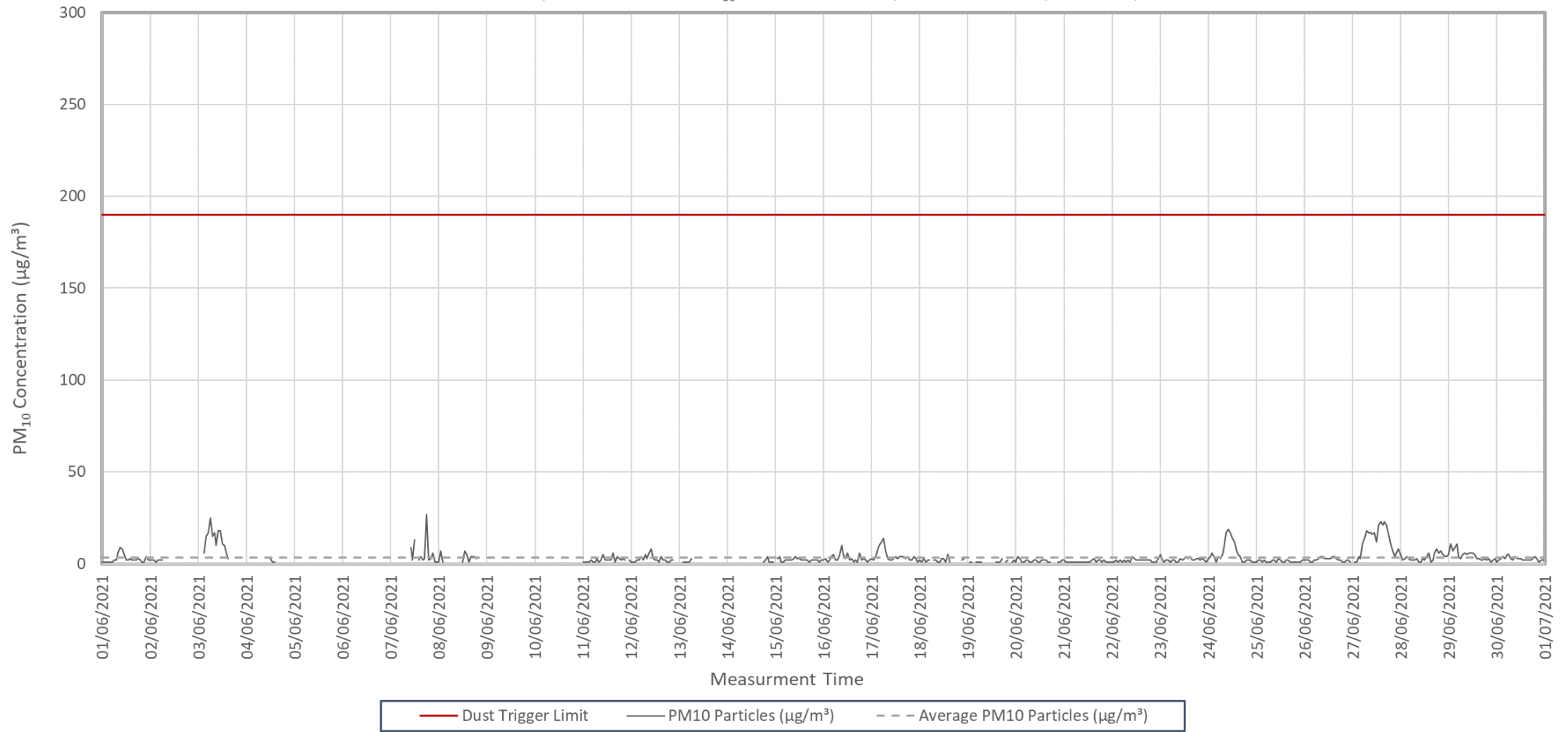


Figure 18: Continuous dust 1-hour mean indicative PM₁₀ concentration for 3252Dust3 for June 2021

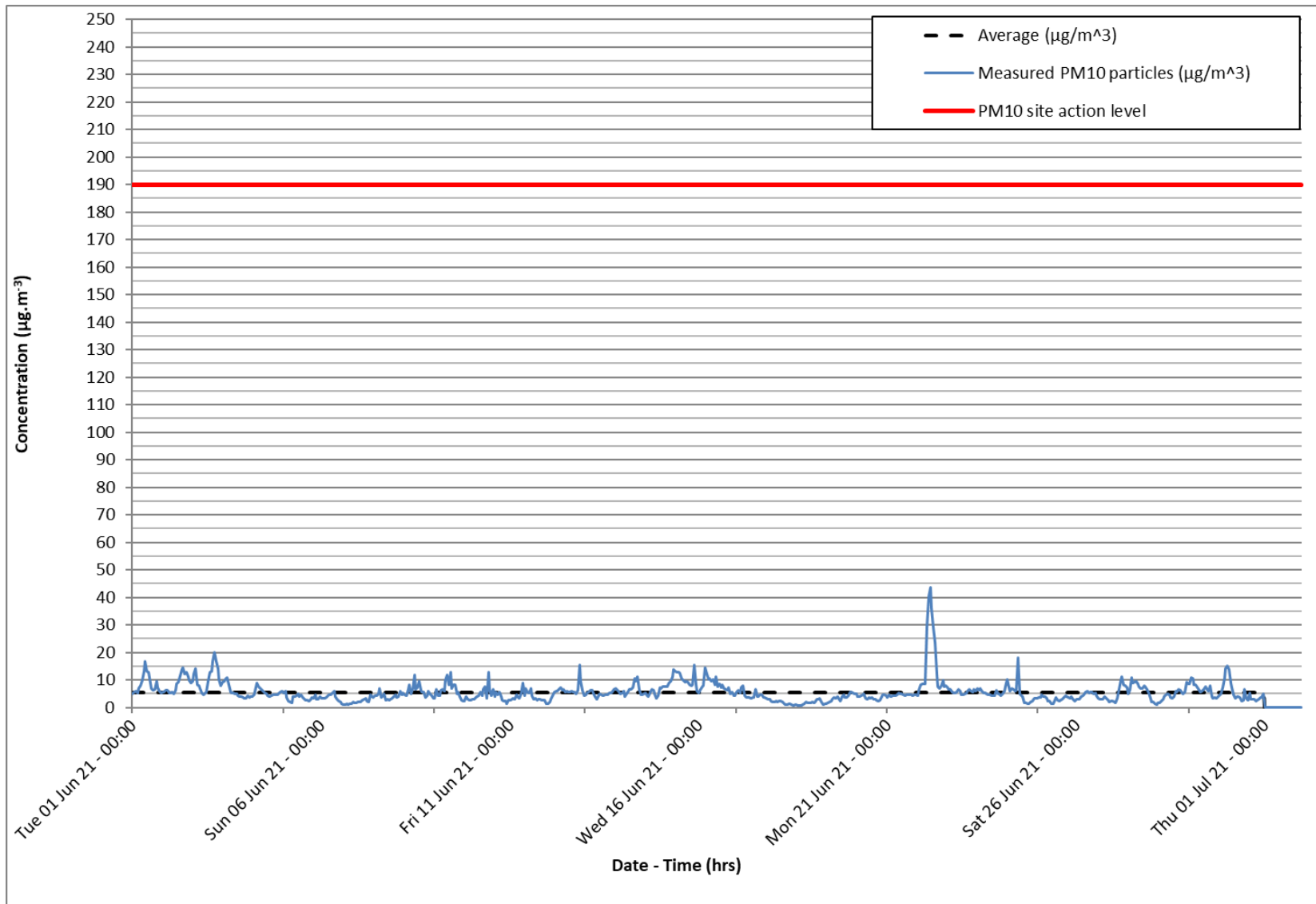


Figure 19: Continuous dust 1-hour mean indicative PM₁₀ concentration for AQ001 for June 2021

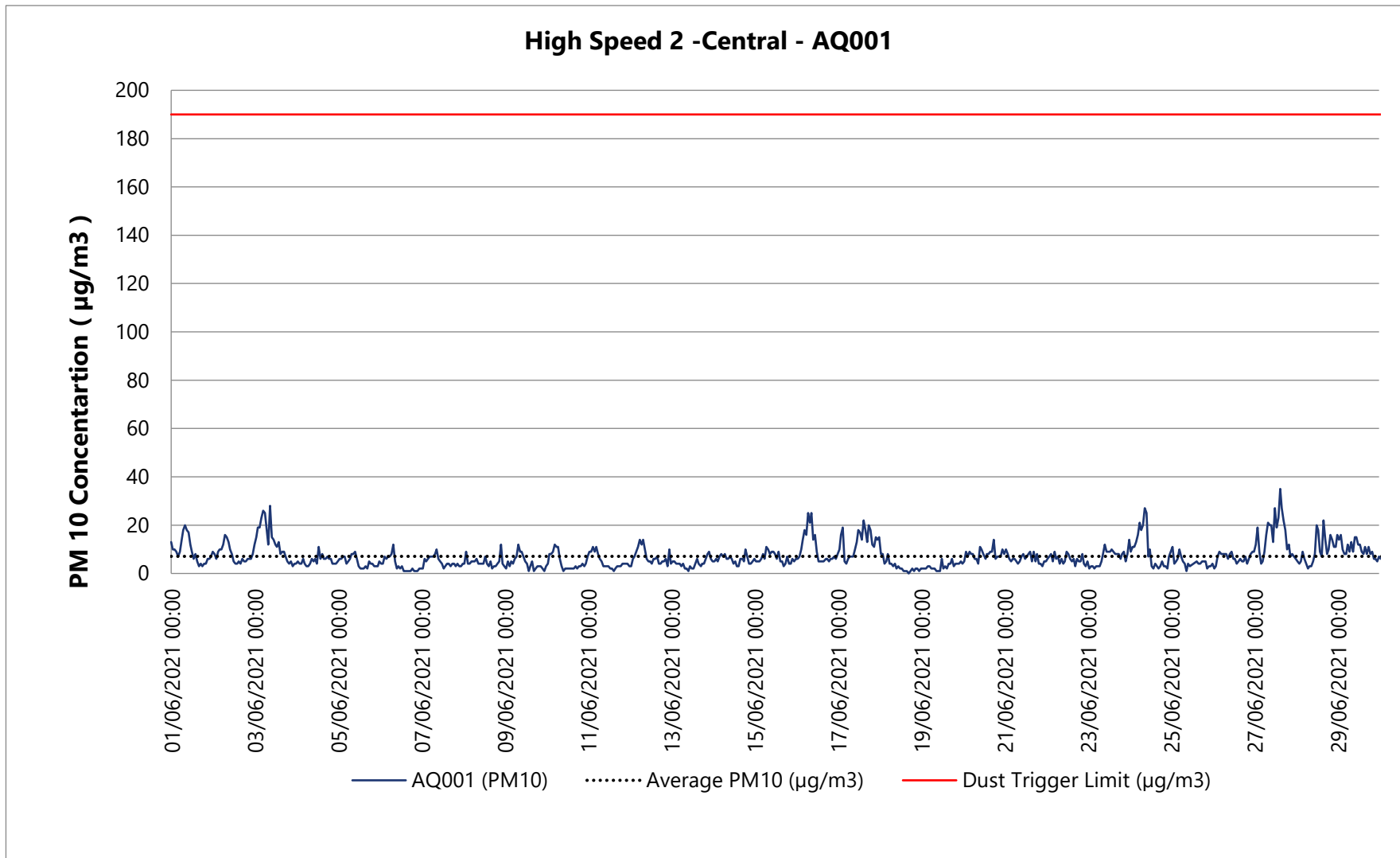


Figure 20: Continuous dust 1-hour mean indicative PM₁₀ concentration for AQ002 for June 2021

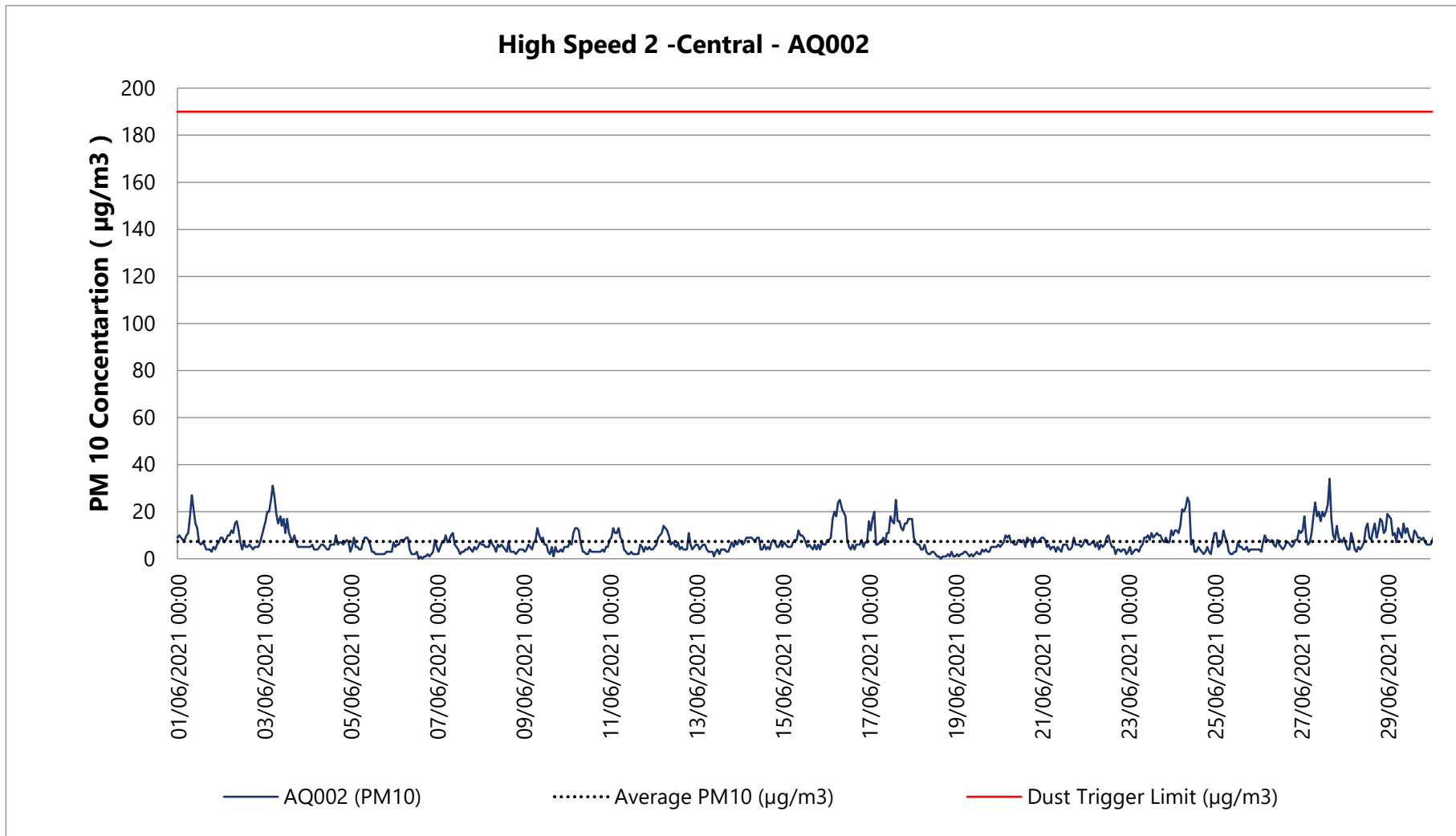


Figure 21: Continuous dust 1-hour mean indicative PM₁₀ concentration for CAL-AQMP1 for June 2021

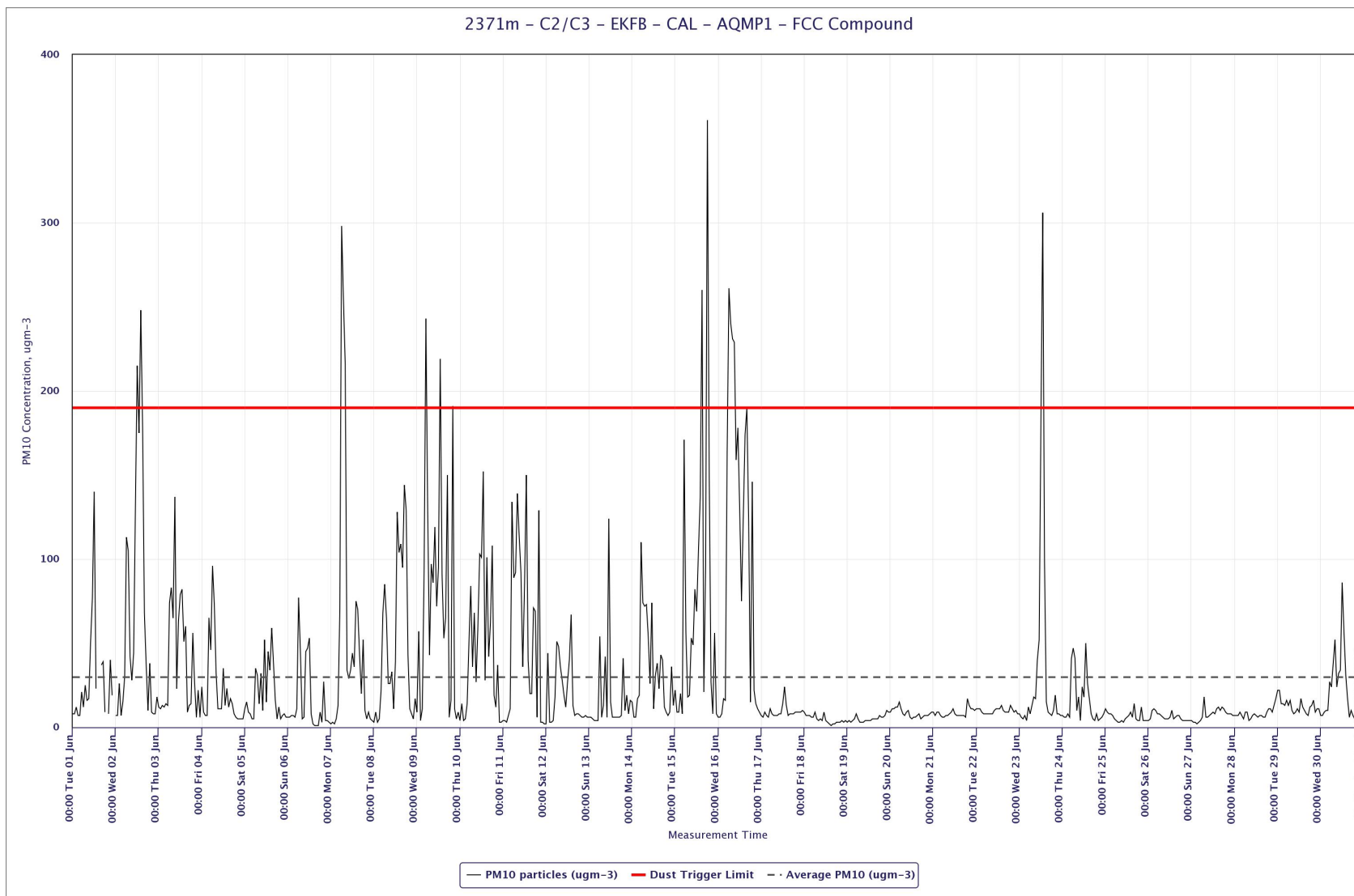


Figure 22: Continuous dust 1-hour mean indicative PM₁₀ concentration for CAL-AQMP2 for June 2021

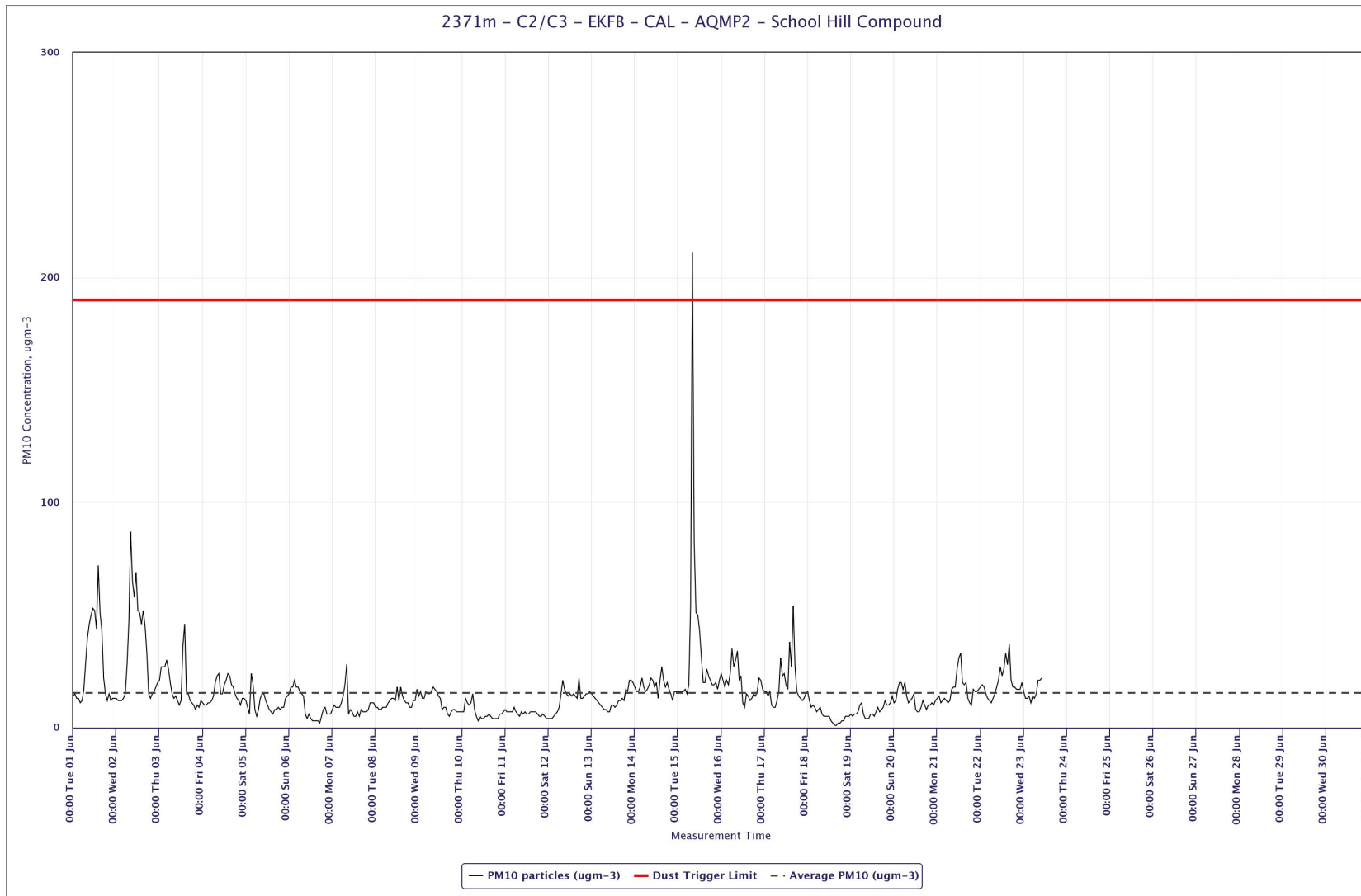


Figure 23: Continuous dust 1-hour mean indicative PM₁₀ concentration for CAL-AQMP3 for June 2021

