

Produced by AQDM on behalf of Herefordshire

HEREFORD VICTORIA STREET 2019

These data have been fully ratified by AQDM to the LAQM (TG16) standards

Site Environment and Description

ROADSIDE: Corner of Victoria Street and King Street

Statistical Summary Report

This 2019 report contains all the statistics required for the LAQM reporting.

First table – Air Quality Statistics

The gravimetric PM_{10} (BAM x 0.833) is shown in the 2^{nd} column while the uncorrected BAM PM_{10} is in the 3^{rd} .

The top four lines show the duration within the bands of the Daily Air Quality Index (DAQI). This was introduced by Defra on January 2012 and revised April 2013. The number of occasions within each band is summarised as follows.

DAQI Pollutant	Moderate	High	Very High
Gravimetric PM ₁₀	7 days	0	0
NO ₂	1 hour	0	0

Gravimetric PM_{10} was Moderate on 4^{th} Jan, 15^{th} 23^{rd} 25^{th} 26^{th} 27^{th} Feb, 8^{th} Apr with a daily mean reaching $68 \mu g m^{-3}$.

Nitrogen Dioxide was Moderate on 16th Dec with an hourly mean reaching 212 µg m⁻³.

Data Captures

The annual data captures are shown on the bottom line.

These were above the 85% target for NO₂ and below for PM₁₀.

High percentiles are included where the annual data capture was less than 85%.





Second table – Air Quality Exceedences

Gravimetric PM₁₀ – annual data capture was 84.1 %

The maximum daily mean was $68 \mu g \text{ m}^{-3}$ so the daily mean limit value of $50 \mu g \text{ m}^{-3}$ was exceeded on 7 days. The annual allowance is 35 days so this Objective was not exceeded.

The annual mean was 21 μg m⁻³ which did not exceed the 40 μg m⁻³ Objective.

NO₂ – annual data capture was 95.5 %

The annual mean was $38~\mu g~m^{-3}$ which did not exceed the $40~\mu g~m^{-3}$ Objective.

The maximum hourly mean was $212 \mu g \text{ m}^{-3}$ so there 1 exceedence of the NO_2 hourly limit of 200 $\mu g \text{ m}^{-3}$. There is an annual allowance of 18 hours so this Objective was not exceeded.





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Air Quality Statistics

Pollutant	PM_{10}^{+}	PM ₁₀ *	NO ₂	NO	NO_X
Number Very High #	0	-	0	-	-
Number High #	0	-	0	-	-
Number Moderate #	7	-	1	-	-
Number Low #	285	-	8361	-	-
Maximum 15-min mean	-	-	256 μg m ⁻³	609 μg m ⁻³	1081 µg m ⁻³
Maximum hourly mean	161 µg m ⁻³	193 μg m ⁻³	212 µg m ⁻³	527 μg m ⁻³	935 μg m ⁻³
Maximum running 8-hr mean	95 μg m ⁻³	114 µg m ⁻³	141 µg m ⁻³	311 µg m ⁻³	555 μg m ⁻³
Maximum running 24-hr mean	74 μg m ⁻³	88 µg m ⁻³	93 μg m ⁻³	242 μg m ⁻³	429 μg m ⁻³
Maximum daily mean	68 µg m ⁻³	82 μg m ⁻³	91 µg m⁻³	216 µg m ⁻³	389 µg m ⁻³
90.4 th percentile of daily means [†]	32 μg m ⁻³	-	-	-	-
90 th percentile of daily means [†]	32 μg m ⁻³	-	-	-	-
98.1 st percentile of daily means [†]	53 μg m ⁻³	-	-	-	-
Average	21 μg m ⁻³	25 μg m ⁻³	38 μg m ⁻³	43 μg m ⁻³	105 μg m ⁻³
Data capture	84.1 %	84.1 %	95.5 %	95.5 %	95.5 %

[#] Daily Air Quality Index (DAQI) as defined by COMEAP January 2012 and revised April 2013

Mass units for the gases are at 20'C and 1013mb

NO_X mass units are NO_X as NO₂ µg m⁻³

Air Quality Exceedences

Pollutant	Air Quality (England) Regulations 2000 & (Amendment) Regulations 2002	Max Conc	Number	Days	Allowed	Exceeded
PM ₁₀ Particulate Matter (Gravimetric)	Daily mean > 50 μg m ⁻³	68 µg m ⁻³	7	7	35 days	No
PM ₁₀ Particulate Matter (Gravimetric)	Annual mean > 40 μg m ⁻³	21 µg m ⁻³	0	1	-	No
Nitrogen Dioxide	Annual mean > 40 µg m ⁻³	38 µg m ⁻³	0	-	-	No
Nitrogen Dioxide	Hourly mean > 200 µg m ⁻³	212 μg m ⁻³	1	1	18 hours	No



[†] Percentile required for annual data capture < 85%

⁺ PM₁₀ as measured by a BAM using a gravimetric factor of 0.833 for Indicative Gravimetric Equivalent

^{*} PM₁₀ as measured by a BAM

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Monthly Data Captures %

Pollutant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PM ₁₀	93.4	83.3	99.9	36.8	57.1	93.3	98.9	100.0	95.0	53.6	100.0	96.8
Nitrogen Dioxide	98.4	98.5	98.8	92.9	95.4	98.8	98.4	99.2	98.3	83.3	84.3	99.2

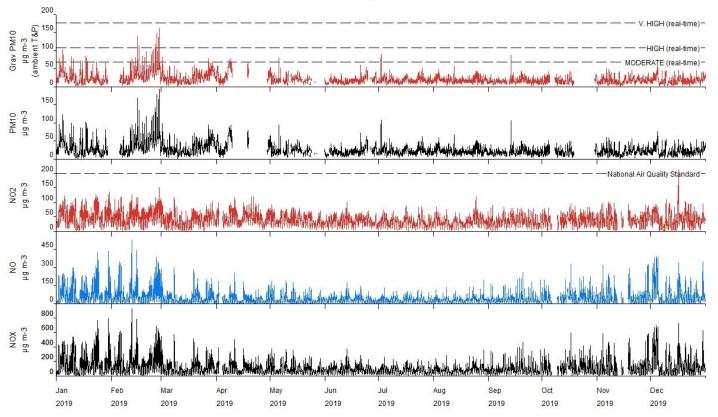
Monthly Means

Pollutant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PM ₁₀ μg m ⁻³	24	36	24	32	19	17	18	18	16	17	16	18
Nitrogen Dioxide µg m ⁻³	50	49	35	45	36	33	30	32	33	38	39	40





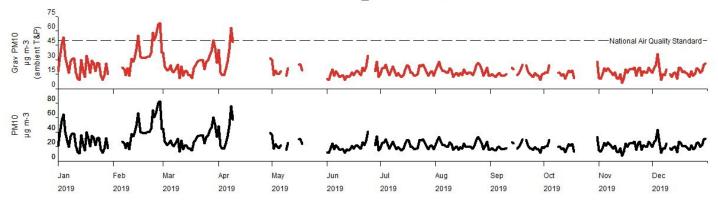
Hourly Means





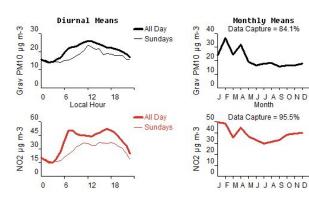


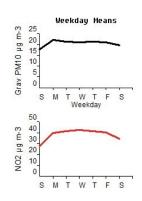
Daily Means

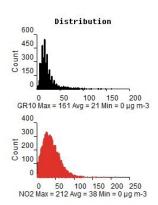




AIT QUALITY REPORTS HEREFORD VICTORIA STREET 2019







Hereford Victoria Street Air Quality Report produced by:

Geoff Broughton

Air Quality Data Management (AQDM)

Tel: 01235 559761

Geoff.Broughton@aqdm.co.uk

http://www.aqdm.co.uk

http://uk.linkedin.com/pub/geoff-broughton/22/187/87/

http://www.UKAirQuality.net

