

Air Quality Report

Produced by AQDM on behalf of Lancaster

LANCASTER DALTON SQUARE 2018

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

Site Environment and Description

ROADSIDE: Dalton Square, Lancaster

Statistical Summary Report

This 2018 report contains all the statistics required for the LAQM reporting.

First table – Air Quality Statistics

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
NO ₂	0 hours	0	0

Data Captures

The annual data captures are shown on the bottom line. These were above the 85% target.

Second table – Air Quality Exceedences

NO₂ – annual data capture was 93.1 %

The annual mean was 34 µg m⁻³ which did not exceed the 40 µg m⁻³ Objective.

The maximum hourly mean was 115 µg m⁻³ so there were no exceedences of the NO₂ hourly limit of 200 µg m⁻³. There is an annual allowance of 18 hours so this Objective was not exceeded.

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Air Quality Statistics

Pollutant	NO ₂	NO	NO _x
Number Very High #	0	-	-
Number High #	0	-	-
Number Moderate #	0	-	-
Number Low #	8152	-	-
Maximum 15-min mean	140 µg m ⁻³	567 µg m ⁻³	1010 µg m ⁻³
Maximum hourly mean	115 µg m ⁻³	514 µg m ⁻³	874 µg m ⁻³
Maximum running 8-hr mean	89 µg m ⁻³	221 µg m ⁻³	425 µg m ⁻³
Maximum running 24-hr mean	69 µg m ⁻³	128 µg m ⁻³	258 µg m ⁻³
Maximum daily mean	67 µg m ⁻³	118 µg m ⁻³	249 µg m ⁻³
Average	34 µg m ⁻³	20 µg m ⁻³	64 µg m ⁻³
Data capture	93.1 %	93.1 %	93.1 %

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
Nitrogen Dioxide	Annual mean > 40 µg m ⁻³	34 µg m ⁻³	0	-	-	No
Nitrogen Dioxide	Hourly mean > 200 µg m ⁻³	115 µg m ⁻³	0	0	18 hours	No

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Monthly Data Captures %

Pollutant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Nitrogen Dioxide	99.9	99.6	99.9	100.0	69.8	61.8	99.7	99.9	100.0	91.9	94.4	100.0

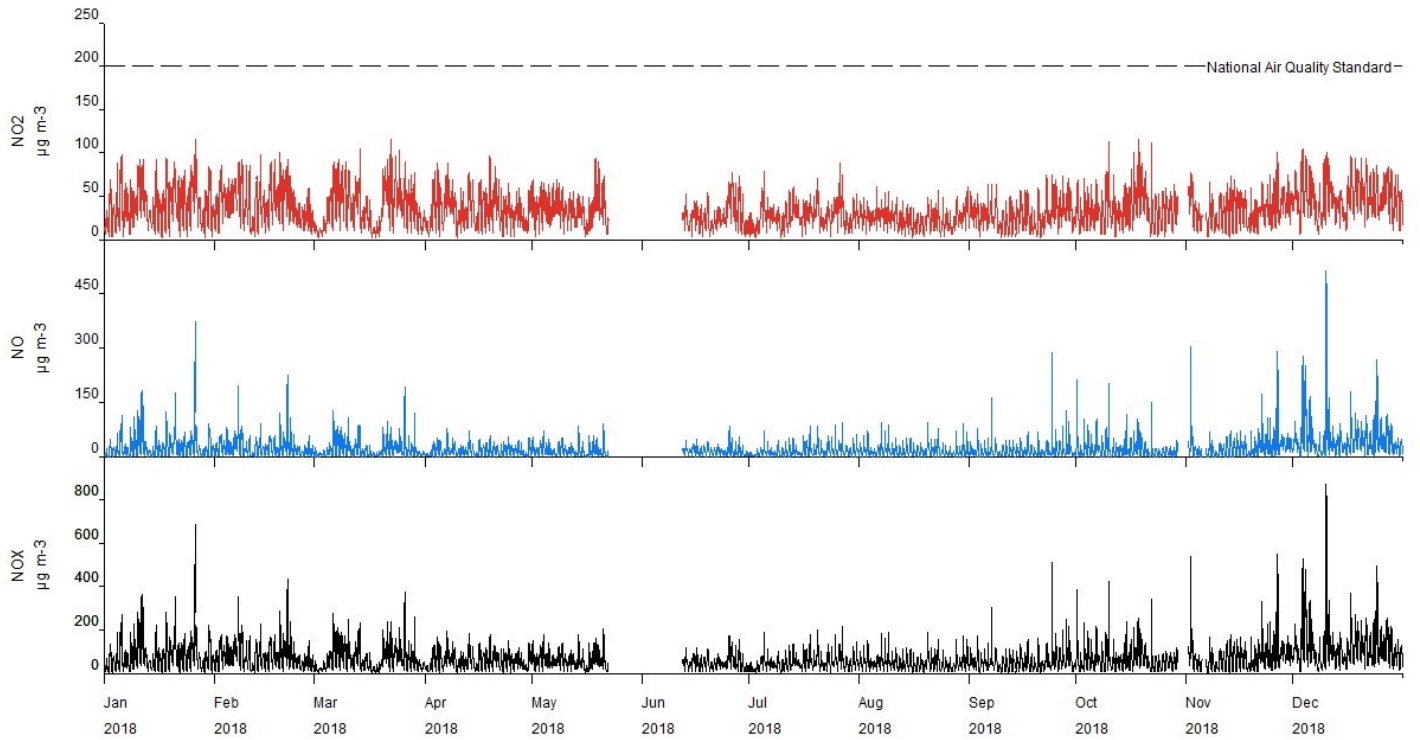
Monthly Means

Pollutant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Nitrogen Dioxide $\mu\text{g m}^{-3}$	37	40	35	32	33	26	27	24	28	36	34	48

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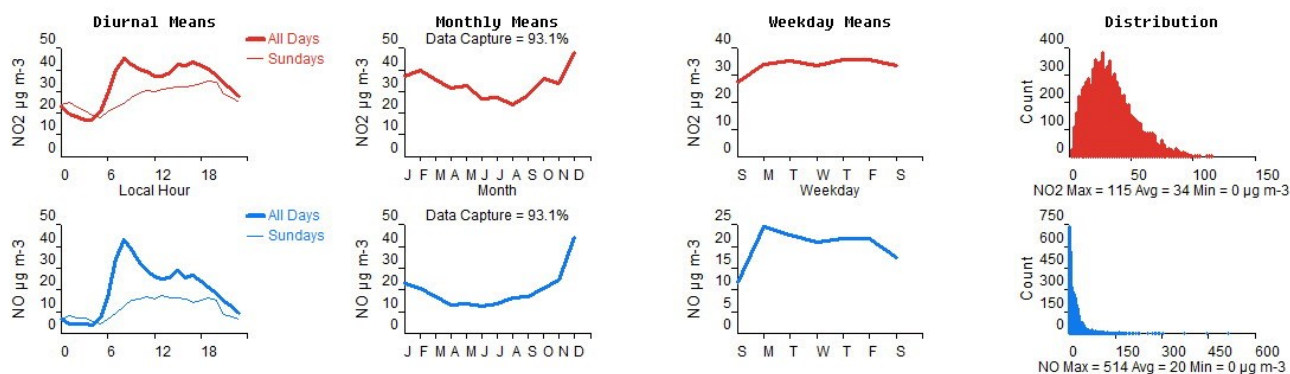
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Hourly Means



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