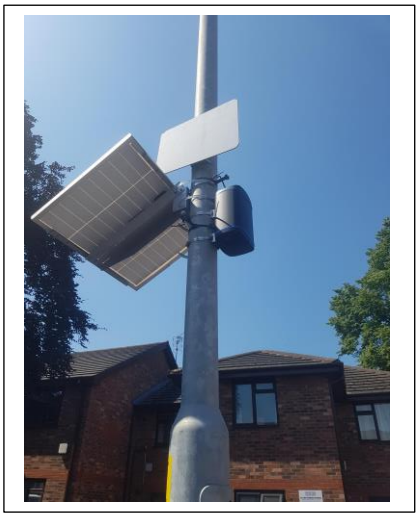
Stockton Heath Parish air Quality Monitor

12 Months report to July 29, 2024

The monitor measures the contaminants listed below.



Gases:

Nitrogen dioxide NO2

Nitric oxide NO

Ozone O3

Particulates:

Pm1

Pm2.5

Pm10

The number indicates the maximum size of the particle in microns.

Quantities are measured in micro grams per cubic metre of air.

The monitor is mounted on a lamp post located in a residential part of London Road in Stockton Heath.

In the table below are listed: the contaminant, the 12 month average of the 24 hours average as measured by the monitor to July 29, 2024 and the recommended maximum average exposures set by the World Health Organisation (WHO) and the UK Government.

Contaminant	Monitor	WHO	UK
NO2	12.41	10	40
O3	27.6		
NO	2.6		30
Pm1	4.1		
Pm2.5	5.4	5	10 *
Pm10	9.0	15	40

*The UK Government aims to achieve 12 by 2028 and 10 by 2040.

The next table shows the peak 24 hour average as measured by the monitor in the 12 months period to July 29, 2024 and the maximum exposure over a designated time set by the WHO and the UK Government. The time periods vary, so these are not directly comparable, but do give an indication of the degree of contamination.

Contaminant	Monitor	WHO	UK
NO2	32.2	25	200
O3	60.7	100 in an 8 hour period	100 in an 8 hour period
NO	74.6		
Pm1	20.24		
Pm2.5	25.06	15	
Pm10	43.74	45	

Summary

The SHPC monitor recorded air contamination readings for the average over the 12 month period to July 29, 2024, of average 24 hour readings, for Pm2.5 and nitrogen dioxide (NO2), above the target that the World Health Organisation (WHO) recommends countries should be working to achieve.

The annual averages for the particulate Pm2.5 and for NO2, are lower than the current maximum set by the UK Government.

Future Measurements

At the beginning of August, the SHPC monitor was upgraded. New sensor cartridges have been fitted. These sensors have new calibration certificates. The certificate for the sensor for particulates shows the national ‘MCERTS’ accreditation. ‘MCERTS’ is a new national measure which was not available when the original monitor was installed.

These certificates are shown separately in this section.