We placed three Nitrogen Dioxide detector across the school grounds. 'A' as placed on the far side of the school with very little car traffic. 'B' was placed in the middle of the drop off car park in the school. 'C' was placed near the carpark on a drain pipe.

The Results were as followed:

A: 22.2 μg/m³
B: 23.84
C: 24.25

These results were surprising as we had expected B to be highest. We believe that Nitrogen dioxide got trapped at C.

We were also surprised at the results as the M50 is less than half a km from the school. The M50 rating is always above 50 and at certain points over our testing it was nearly three times higher.

Some of the negative effects of Nitrogen dioxide are Respiratory problems, it can increase the frequency and severity of Asthma attacks, and can cause inflammation of the lining of the lungs. Which can lead to coughing, wheezing, colds, flu and bronchitis.

Some of the things that humans can do to stop the increase risks of Nitrogen dioxide are building up bike infrastructure to keep cars off the road, limit the amount of fertilizers used by farmers and implement national fuel quality standards.