APPENDIX 8

BREATHE LONDON
COVID-19 ANALYSES

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Breathe London COVID-19 Analyses

The following documentation describes analysis conducted by the Breathe London team and Environmental Defense Fund to understand the impact of confinement measures due to the COVID-19 pandemic on air pollution.

8A **Air Quality Expert Group (AQEG) Call for Evidence Response**

In response to the AQEG call for evidence, the Breathe London team submitted analysis from the Breathe London network and associated modelling. The evidence included documentation of observed changes in air quality during confinement measures, assimilation of air quality measurements into the air quality model to quantify changes in emissions, and future opportunities to evaluate emissions indices.

8B **New Breathe London Data: COVID-19 confinement measures reduce London air pollution submitted in AQEG Call for Evidence Response**

Originally released on 23rd April 2020, EDF's analysis specifically compares Breathe London network data with traffic congestion data from Waze for Cities in the days before and after the government implemented restrictions to reduce the spread of COVID-19.

8C **Traffic Congestion Increasing in London, Above 2019 Levels Outside City Centre**

This analysis from 15th September 2020 used Waze for Cities data to show that traffic congestion was increasing at that time in London and was worse than 2019 levels outside the city centre.

8D **Machine Learning Techniques to Better Estimate London's NO_2 Pollution Reduction During Lockdown**

This analysis from 5th October 2020 used a machine learning model to predict what the concentration of NO_2 would have been if confinement restrictions had not come into effect.