

# CLEAN AIR HAMILTON 2019 PROGRESS REPORT

December 7, 2020 Hamilton Board of Health

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Public Health Services Healthy Environments Division





Clean Air Hamilton 2019 Air Quality Progress Report November 2020



#### www.cleanairhamilton.ca

Photo courtesy of Tourism and Culture

## **Clean Air Hamilton**

Members:

Local Citizens

Ontario MECP

Health Canada

**Environment Canada** 

ArcelorMittal Dofasco

Stelco

**Friendly Streets** 

**Green Venture** 

McMaster University

MIHE

Mohawk College

**Environment Hamilton** 

City of Hamilton

**Public Health** 

Planning

Public Works

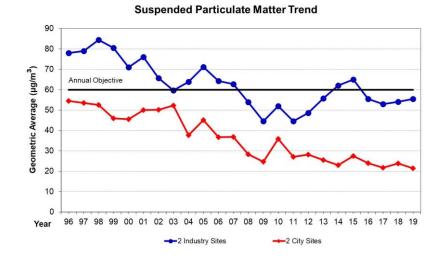


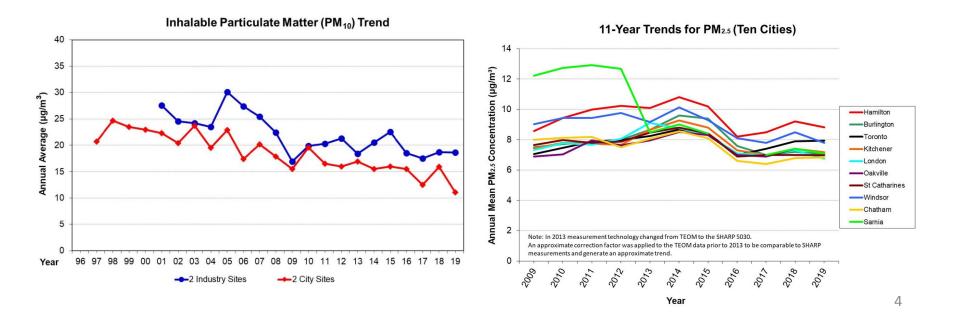
- Science based / Diverse / Inclusive / Facilitated Consensus
- CAH established as an implementation committee to act on recommendations contained in 1997 Hamilton Air Quality Initiative Reports
- Community based initiatives
- Internationally recognized
- Meet 2<sup>nd</sup> Monday of each month

### Hamilton's Air Quality Trends

#### Particulate Matter (TSP, PM<sub>10</sub>, PM<sub>2.5</sub>)

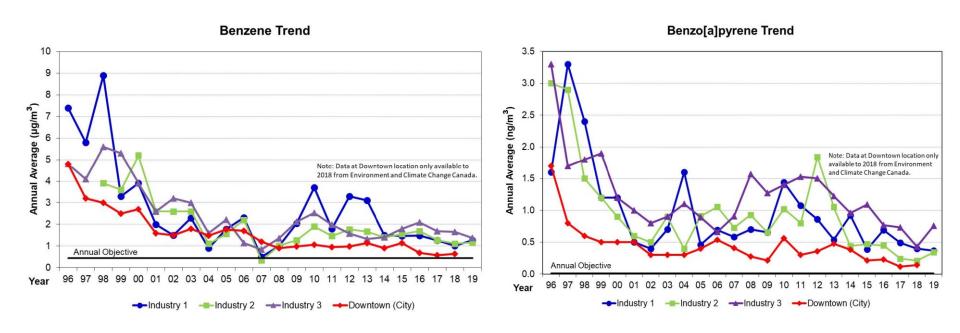






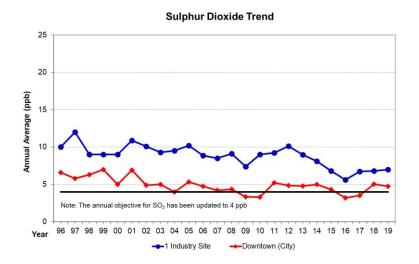
#### Hamilton's Air Quality Trends

#### Benzene and Benzo[a]pyrene

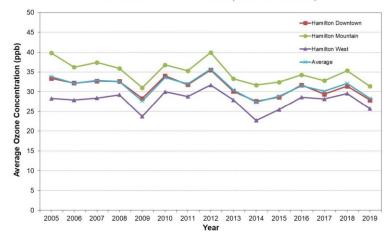


### Hamilton's Air Quality Trends

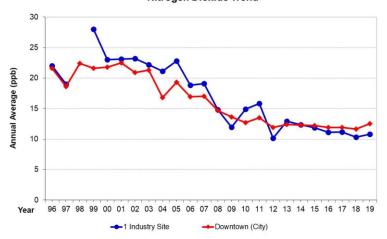
#### Nitrogen Oxides (NOx), Nitrogen Dioxide (NO<sub>2</sub>), , Sulphur Dioxide (SO<sub>2</sub>), Ozone (O<sub>3</sub>)



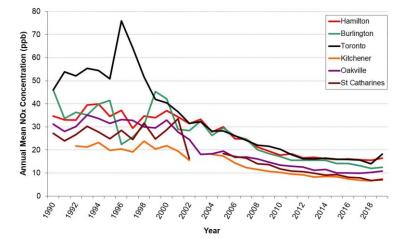
**Ground Level Ozone Trend (Summer Months)** 



Nitrogen Dioxide Trend



29-Year Trends for Nitrogen Oxides (Six Cities)



## 2019 Community Projects Supported Through Clean Air Hamilton

- Enhanced Fresh Air for Kids (Green Venture and Corr Research)
  - Famous Fresh Air for Kids program with anti-idling engagement and campaign at participating schools.
- Friendly Streets Hamilton (Cycle Hamilton and Environment Hamilton)
  - Conducting street-level audits within a one km radius of the General hospital while educating the public about air quality challenges and measuring PM<sub>2.5</sub>.
- **Trees Please** (Environment Hamilton and the Hamilton Naturalists Club)
  - Collection of air quality and tree inventory data and planting 500+ trees in Ward 4.



## 2020 Community Projects Supported Through Clean Air Hamilton

Approved 2020 Projects through Healthy Environment Division's Operating Budget

- Fresh Air for Kids (Green Venture and Corr Research)
  - Mobile air monitoring around four schools across Hamilton, virtual class presentations on results and importance of Air Quality Health Index.
- **Trees Please** (Environment Hamilton)
  - Tree Giveaways, Particulate Matter Monitoring, and introduction of heat sensors in Ward 4 and lower City neighbourhoods.









## **Future Actions**

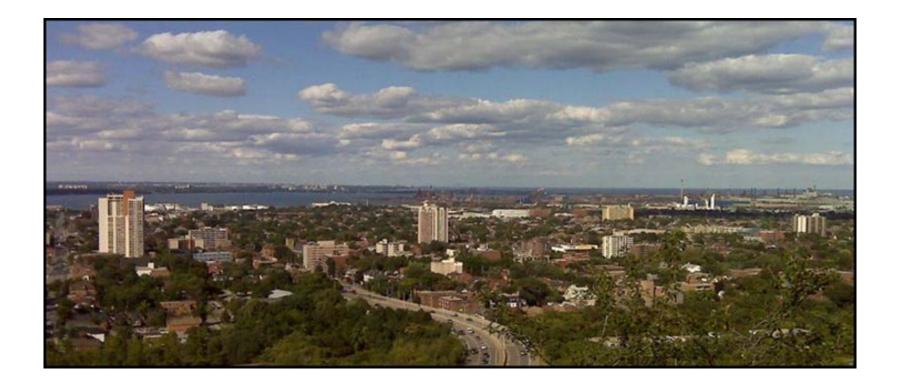
- Continue to support education and outreach, air quality monitoring, and using the Hamilton Airshed Modeling System to identify major sources of pollution to prioritize action for maximum air quality improvement and exposure reduction.
- Support initiatives aimed at reducing transportation related green house gas emissions such as expansion of bike lanes and SoBi.
- Support expansion of electric vehicle charging station infrastructure in Hamilton.
- Continue to support groups like Clean Air Hamilton aimed at improving air quality and public health across the City of Hamilton.

# Why?

#### To ensure the health and well-being of the citizens of Hamilton.







Thank you, On behalf of **Clean Air Hamilton** 

