



Clean Air Hamilton  
2016 Air Quality Progress Report

June 2017

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Chair  
Clean Air Hamilton

[www.cleanairhamilton.ca](http://www.cleanairhamilton.ca)

# Clean Air Hamilton

## Members:

Local Citizens

Ontario MOECC

Health Canada

Environment Canada

ArcelorMittal Dofasco

Stelco

Alectra Utilities

Green Venture

McMaster University

Mohawk College

MIEH

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 HAQI Reports**
- **Community based initiatives**
- **Internationally recognized**

# Hamilton's Air Quality Trends

- Total Suspended Particulate (TSP) levels - 55% total reduction over 20 years;
- Inhalable Particulate Matter (PM<sub>10</sub>) levels - 33% total reduction over 19 years;
- Respirable Particulate Matter (PM<sub>2.5</sub>) levels - 26% total reduction over 17 years;
- Nitrogen Dioxide (NO<sub>2</sub>) levels - 53% total reduction over 20 years;
- Sulphur Dioxide (SO<sub>2</sub>) levels - 47% total reduction over 20 years;
- Total Reduced Sulphur odours - 99% total reduction over 20 years;
- Benzene levels - 87% total reduction over 20 years;\*\* and
- PAH (measured as benzo[a]pyrene) levels - total 76% total reduction over 19 years. \*\*

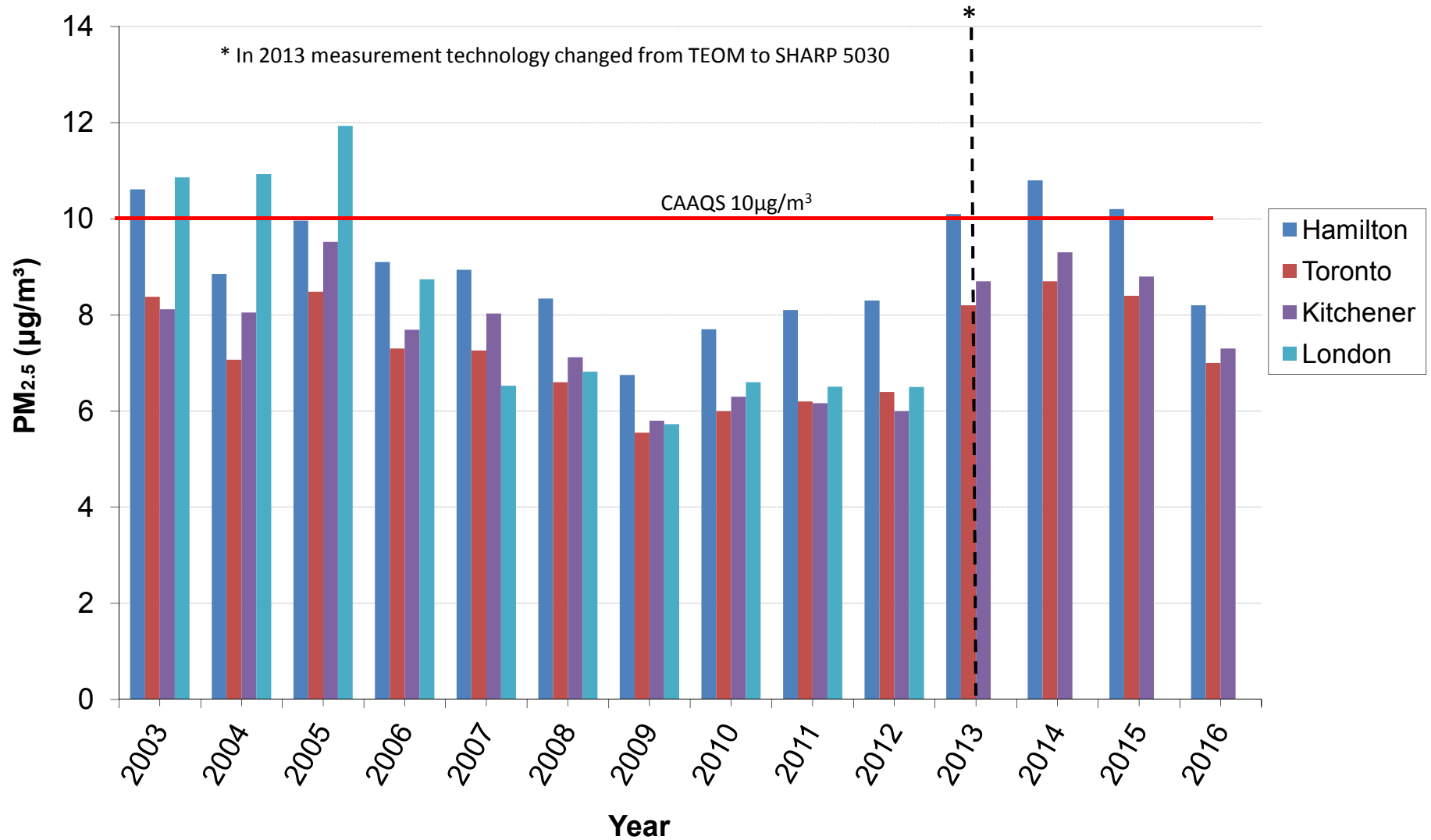
**90% improvement in major pollutants (risk factors ) since 1970s**

**GHG emission reduction targets (2020) met**

**PM<sub>2.5</sub> Canadian Ambient Air Quality Standards (CAAQS) met in 2016**

# Hamilton's Air Quality Trends

## 13-Year Trends for PM<sub>2.5</sub> (Four Ontario Cities)







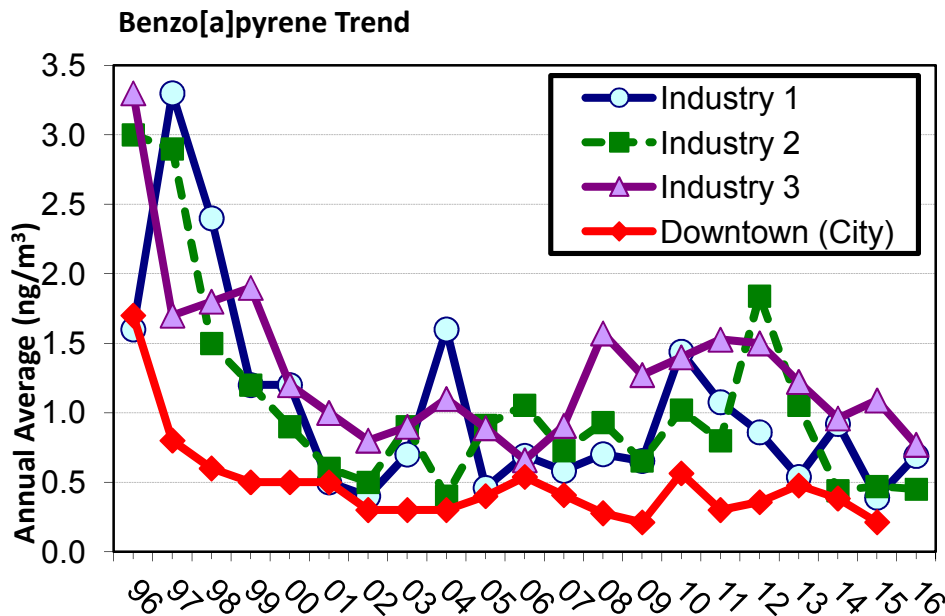
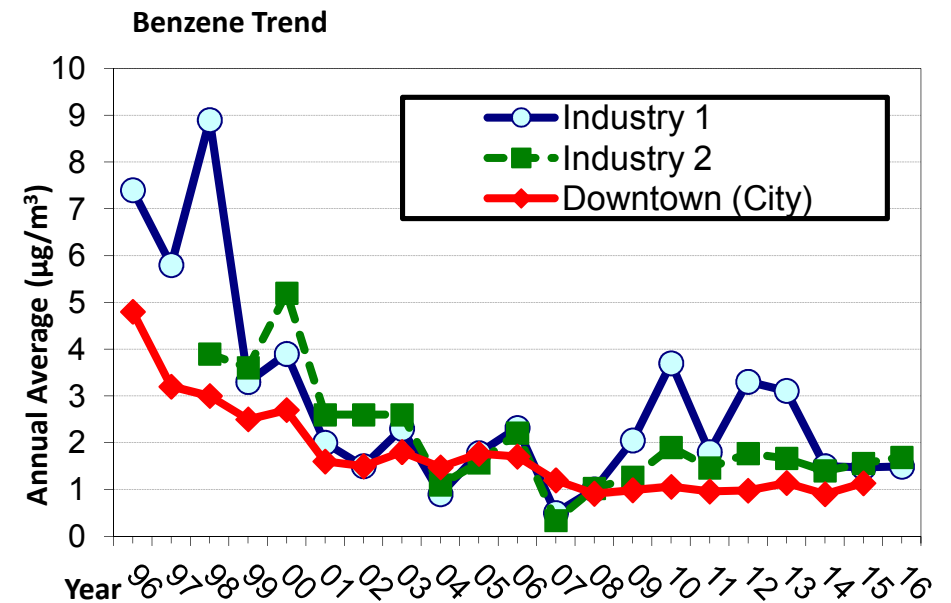
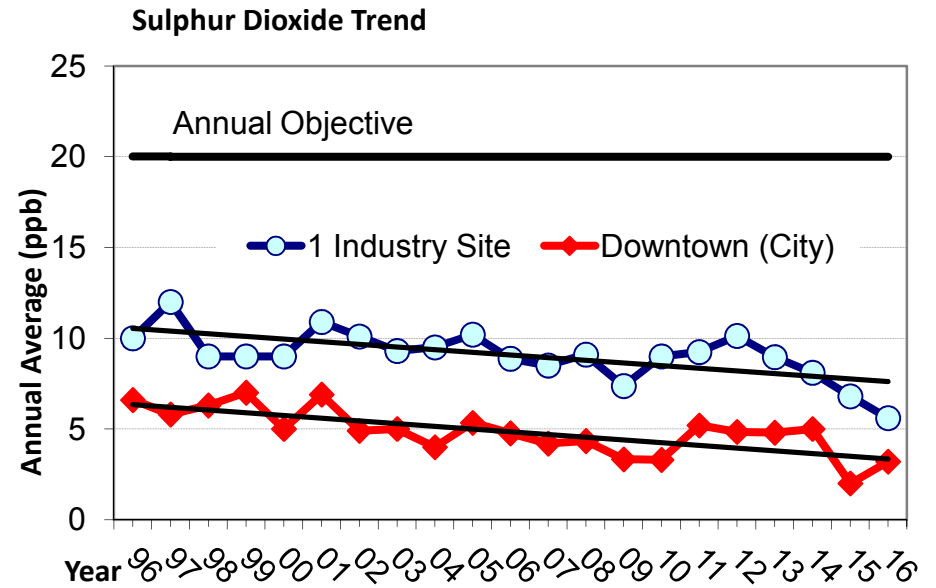
# Hamilton's Air Quality Trends

Sulphur Dioxide (SO<sub>2</sub>)

Benzene

Benzo[a]pyrene

Comparisons of 'Downtown' sites and 'Industry' sites



# 2016 Community Projects Supported Through Clean Air Hamilton

## Totally Transit Kids

- Bus education and awareness for elementary school students

## Eco Stars Classroom Challenge

- Engages students and teachers with strategies to reduce carbon dioxide and other GHGs in classroom, at home and at play

## Fresh Air for Kids

- Series of hands-on educational workshops that included activities inside and outside the classroom including mobile air monitoring using MOECC van.

## Idling Reduction Campaign

- Installation of forty anti-idling signs across Hamilton Conservation Authority's parking lots.

## Hamilton Air Quality Health Index Mapping Update

- Prof. Matthew Adams, Ryerson University performed extensive update to Hamilton AQHI website ([www.hamiltonaqhi.com](http://www.hamiltonaqhi.com)) to include 2016 data and historical data search capabilities.

For more information on these projects please go to [cleanairhamilton.ca](http://cleanairhamilton.ca)





# Future 2017 Community Projects Supported Through Clean Air Hamilton

Approved at Board of Health meeting May 15, 2017 BOH (BOH17019)

## Enhanced Fresh Air for Kids with Anti-Idling

- Famous Fresh Air for Kids program with new anti-idling engagement and campaign at participating schools

## 'Building' Community Awareness & Action Regarding Respirable Particulate Pollution in Hamilton

- Engage network of volunteer teams across neighbourhoods to help build low cost fine air particulate sensors to become part of a pilot network of real-time monitors



# Future Actions

Continue to support and undertake all the recommendations of the Air Quality Task Force (BOH1309) including activities relating to air monitoring, green infrastructure.

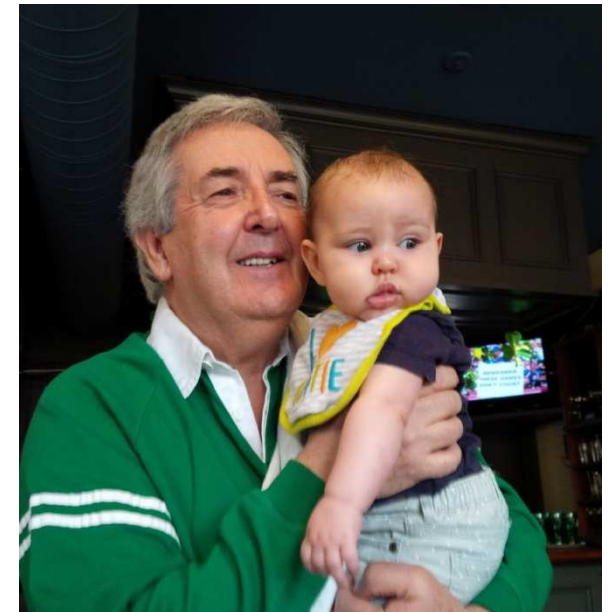
Support initiatives aimed at reducing transportation related GHG emissions such as: LRT, expansion of HSR services, expansion of bike lanes.

Support initiatives aimed at greater connectivity of active transportation such as Downtown Active Superhighway (DASH) and Mountain Active Superhighway (MASH).

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?



THANK YOU



St. Marguerite D'Youville Block Party

On behalf of  
***Clean Air Hamilton***

