

# Accepted Manuscript

Factors affecting the concentration and distribution of gaseous elemental mercury in the urban atmosphere of downtown Toronto

Daniel Prete, Matthew Davis, Julia Lu



PII: S1352-2310(18)30562-4

DOI: [10.1016/j.atmosenv.2018.08.041](https://doi.org/10.1016/j.atmosenv.2018.08.041)

Reference: AEA 16209

To appear in: *Atmospheric Environment*

Received Date: 12 March 2018

Revised Date: 14 August 2018

Accepted Date: 21 August 2018

Please cite this article as: Prete, D., Davis, M., Lu, J., Factors affecting the concentration and distribution of gaseous elemental mercury in the urban atmosphere of downtown Toronto, *Atmospheric Environment* (2018), doi: 10.1016/j.atmosenv.2018.08.041.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1 **Factors affecting the concentration and distribution of gaseous**  
2 **elemental mercury in the urban atmosphere of downtown Toronto**

3 Daniel Prete<sup>a</sup>, Matthew Davis, Julia Lu<sup>\*</sup>

4 Department of Chemistry and Biology, Ryerson University,  
5 350 Victoria Street, Toronto, Ontario, Canada M5B 2K3

6  
7 <sup>a</sup> Primary author E-mail: deprete@ryerson.ca

8 <sup>\*</sup> Corresponding author E-mail: julialu@ryerson.ca

9 Declarations of interest: none

10 **Highlights:**

- 11 - Large GEM spikes at low wind speed suggest local sources of emission  
12 - Decrease in [GEM]<sub>Air</sub> over 12 years is much larger in Toronto than at rural and remote site  
13 - Both local and regional/global emission sources contribute to Hg loading in urban atmosphere  
14 - Mercury control policies and meteorological conditions affect [GEM] in urban atmosphere

Download English Version:

<https://daneshyari.com/en/article/10138586>

Download Persian Version:

<https://daneshyari.com/article/10138586>

[Daneshyari.com](https://daneshyari.com)