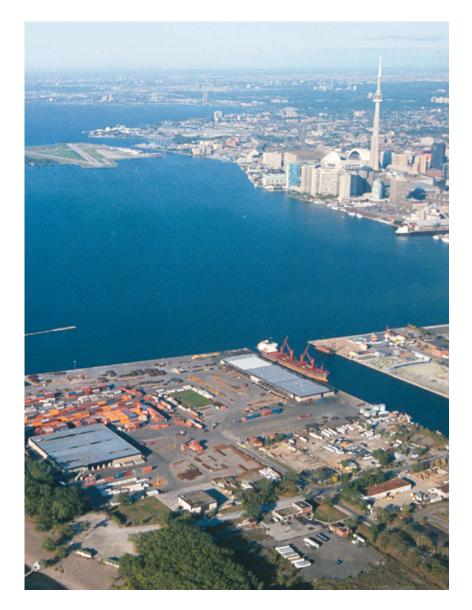
TORONTO





Toronto's ChemTRAC Program and the Environmental Reporting and Disclosure Bylaw

Rich Whate

Toronto Public Health – Environmental Protection Office

Presentation to the Air and Waste Management Association

October 6, 2010







Chemicals in Toronto: Reduction and Awareness in our Community

International Contract Goals and Objectives

Goal:

• To protect public health by reducing toxic chemicals in our environment

Objectives:

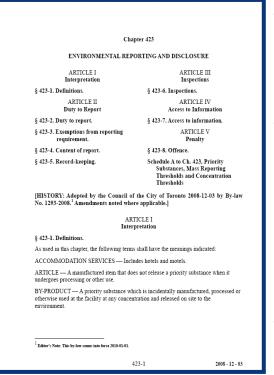
- Increase awareness by facilities of their use & release of priority chemicals of health concern
- Support "greening" of local businesses via pollution prevention education, and collaboration with industry to enhance growth, productivity and innovation
- Provide public access to information about chemicals used and released in the community





DA TORONTO

Environmental Reporting and Disclosure Bylaw (Municipal Code Chapter 423)



- Requires reporting on 25 toxic chemicals (or group of chemicals) of priority concern to health, if annual thresholds reached
- Requires facilities that use or release one or more of the priority chemicals to report:
 - on-site releases to air, water & land
 - 'use' as total manufactured, processed or otherwise used
- Some facilities and activities within facilities not required to report





TORONTO 25 Priority Toxic Chemicals

Acetaldehyde Acrolein Benzene 1,3-butadiene Cadmium Carbon tetrachloride Chloroform Chromium (hexavalent) Chromium (non-hexavalent) 1,4-dichlorobenzene 1,2-dichloroethane Dichloromethane Ethylene dibromide

Formaldehyde Lead Particulate Matter (PM2.5) Manganese Mercury Nickel Nitrogen Oxides (NOx) Polycyclic Aromatic Hydrocarbons (PAHs) Tetrachloroethylene Trichloroethylene Vinyl Chloride Volatile Organic Compounds (VOCs)





TORONTO Examples of Chemical Use and Release

Printing and publishing:

May use/release VOCs, dichloromethane, formaldehyde, mercury, cadmium (e.g. inks)

Food and beverage:

May use/ release VOCs, particulate matter, formaldehyde (e.g. processing, cleaning equipment)

Autobody refinishing:

May use/release VOCs, metals, particulates (e.g. sanding and painting)



International Phased Reporting Deadlines

Phase 1: Report 2010 data by June 30, 2011

 food and beverage manufacturing, printing and publishing, manufacturing (including chemical and petroleum), wood industries, power generation, water and wastewater

Phase 2: Report 2011 data by June 30, 2012

• Chemical wholesale, waste management & remediation, medical & diagnostic laboratories, dry cleaning & laundry services, automotive repair & maintenance, funeral services

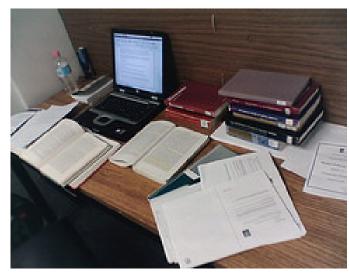
Phase 3: Report 2012 data by June 30, 2013

• All other sectors, including paper manufacturing, primary metal manufacturing, machinery manufacturing





In TORONTO Supporting Business Greening







Compliance and technical assistance:

- Bylaw guidance information
- > 60 calculators to estimate chemical use and emissions
- Free on-site advice through Technical Assistance Program
- Simple electronic reporting

Pollution prevention guidance:

- Sector-specific information
- Annual grants for toxics reduction
- E-learning for business
- Recognition program
- E-newsletter & case studies



Making Information Public

What types of information are most useful to businesses, public, researchers?

- Facility data
- Environmental activities of reporters and non-reporters
- Other sources of substances (e.g. individual contribution)
- Links to other programs, resources

We want to hear from you!

- Consultation workshops concluded October 5
- Online survey and discussion forums open until October 22
 <u>https://chemtrac-survey.dpra.com/</u>





International Program? Why a Municipal Program?

Local information gaps

- Only ~4% of Toronto facilities (with releases) report to NPRI and Ontario's Toxics Reduction Act
- Few data on small and medium-sized facilities
- Need to better understand contribution from all sources, particularly in communities facing existing health burdens

Local health concerns

- Long-term exposure to chemicals from many small facilities located close to where people live
- Priority substances in Toronto's air at levels of concern for health

Supporting local business sustainability

• Information creates opportunities





Make ChemTRAC work for you!

Tell us what information would help you

Complete our survey or join our discussion forum: https://chemtrac-survey.dpra.com/

Stay informed with our e-newsletter

ChemTRAC news, technical updates, best practices: Email <u>chemtrac@toronto.ca</u>

Apply for a Toxics Reduction Grant

October 18 deadline for grants up to \$25,000 http://www.toronto.ca/livegreen/greenneighbourhood_rebates_chemtrac.htm

Register for a free assessment of your facility

Email: chemtracvisit@partnersinprojectgreen.com









Tracking and reducing toxics in our environment

Learn more at toronto.ca/chemtrac



For more information visit <u>www.toronto.ca/chemtrac</u> or chemtrac@toronto.ca

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