



# Special Report on Toxic Chemicals and Children's Health and the Environment in North America

June 2005

## Introduction

This report provides an overview of children's health in North America and key factors that affect children's health, including exposure to toxic chemicals. It identifies what toxic chemicals might be particularly important in relation to children's health. It tracks releases of those toxic chemicals that are reported in the US and Canadian Pollutant Release and Transfer Registries (PRTRs). The report focuses on certain lists of chemicals, specific individual chemicals, with some forward-looking recommendations for action. This is not a report on risks, but rather is focused on sources of chemical industrial release as one important part of the puzzle. Chemicals from industry are only one type of pollutant; other sources are beyond the scope of this report.

## Background

The mandate to prepare this report came from the CEC Council Resolution (02-06), in its adoption of the CEC's *Cooperative Agenda for Children's Health and the Environment in North America* in June 2002. Item 3.2 of the Cooperative Agenda calls upon the Secretariat to prepare a report on toxic chemicals and children's health and the environment. The Secretariat commissioned a study, undertaken by consultants and guided by the Council appointed Expert Advisory Board on Children's Health and the Environment (EAB). The first draft was prepared and distributed to the parties in early 2004. It was put out for public comment in the spring of 2004. Comments were received from stakeholders and the parties. In addition, the parties identified a group of experts to review the report and provide comments. A meeting of these experts was convened in November 2004. Subsequently, the report has been redrafted taking into account the public comments and the advice of experts. Contacts for the key people in the parties, the EAB and the Experts are attached for information.

## Current Status

The revised draft report was sent to the experts and parties in mid-June (in all three languages) for a six week review period. Any additional comments will be reviewed and the report modified accordingly. It is anticipated that a final report will be available for publication by late fall 2005.

## Overview of the Report

The report analyzes, from a children's health perspective, publicly available Pollutant Release and Transfer Register (PRTR) data. It focuses on children up to the age of 18 years. Exposure to chemicals prior to birth can also be important to a child's future development, and so are discussed in this report.

The report is arranged in the following way:

- Chapter 1 describes the demographics and major causes of death, illness and disability for children in North America
- Chapter 2 describes the sources, pathways and health effects of chemicals
- Chapter 3 analyzes industrial pollutant release and transfer data for carcinogens, developmental toxicants and neurotoxicants, and other chemicals of concern to children's health
- Chapter 4 describes examples of current programs to prevent and reduce children's exposure to chemicals and provides an overview of recommendations for actions to reduce releases of and prevent exposure to toxic chemicals

## For More Information

An extended version of this project description is available on the CEC website at [www.cec.org/children](http://www.cec.org/children).



To find out more, please contact:  
**Keith Chanon**, Program Manager

**Commission for Environmental Cooperation**  
393, rue St-Jacques Ouest, bureau 200  
Montreal, Quebec, Canada H2Y 1N9  
Tel: (514) 350 4323 Fax: (514) 350 4314

[kchanon@cec.org](mailto:kchanon@cec.org)

## **Key Contact People in the Parties**

### **CANADA**

#### **Annie Berube**

Policy Analyst, CHE  
Health Canada  
Charles Tupper Bldg, 4<sup>th</sup> Floor, Room C487  
2720 Riverside Drive  
Ottawa, ON K1A 0K9  
P: 613-941-3610  
F: 613-952-8857  
[Annie\\_A\\_Berube@hc-sc.gc.ca](mailto:Annie_A_Berube@hc-sc.gc.ca)

#### **Amber McCool**

Policy Development and  
Integration, Strategic Policy  
and Partnerships  
10 Wellington St., 22nd Floor  
Hull, Que. K1A 0H3  
P: 819-997-5087  
F: 819-953-4679  
[amber.mccool@ec.gc.ca](mailto:amber.mccool@ec.gc.ca)

### **MÉXICO**

#### **José Manuel Medina Aguilar,**

SEMARNAT  
P: (52 555) 628-3908  
F: (52 555) 628-0694  
[manolo.medina@semarnat.gob.mx](mailto:manolo.medina@semarnat.gob.mx)

### **UNITED STATES**

#### **Ann Carroll,**

Revolving Loan Fund (RLF), Program Lead  
Office of Brownfields  
US EPA  
US EPA Headquarters 2660R  
1200 Pennsylvania Ave. NW  
Washington, DC 20460  
P: (202) 566-2748  
F: (202) 566-2757  
[carroll.ann@epa.gov](mailto:carroll.ann@epa.gov)

### **CEC Staff**

#### **Keith Chanon**

Program Manager, PRTR  
393 St-Jacques Street W, suite 200  
Montreal, QC H2Y 1N9  
Canada  
P: 514-350-4323  
F: 514-350-4314  
[kchanon@cec.org](mailto:kchanon@cec.org)

## **List of Experts on the Kids and Toxics Special Feature Report**

### **Canada**

#### **Warren G. Foster**

Director, Reproductive Biology Division & Associate Professor  
Department of Obstetrics & Gynecology  
McMaster University  
1200 Main Street West  
Hamilton, ON  
Canada L8N 3Z5  
Tel: (905) 521-2100, ext. 76245  
Fax: (905) 577-0471  
Email: [fosterw@mcmaster.ca](mailto:fosterw@mcmaster.ca)

#### **Geoffrey Clifford Granville**

Manager, Toxicology & Material Safety  
Shell Canada Limited  
P.O. Box 100 Station M  
Calgary, AB  
Canada T2P 2H5  
Tel: (403) 691-2220  
Fax: (403) 261-0035  
Email: [geoffrey.granville@shell.com](mailto:geoffrey.granville@shell.com)

#### **Donald T Wigle, MD, PhD, MPH**

Affiliate Scientist  
R. Samuel McLaughlin Centre for Population  
Health Risk Assessment  
Institute of Population Health  
University of Ottawa  
One Stewart Street  
Ottawa, ON K1N 6N5  
Tel: (613) 225-2912  
Fax: (613) 225-5229  
Email: [don.wigle@sympatico.ca](mailto:don.wigle@sympatico.ca)

### **United States**

#### **Melanie Marty**

Chief, Air Toxicology and Epidemiology Section  
Cal EPA - Office of Environmental Health  
Hazard Assessment  
1515 Clay St. 16th Floor  
Oakland, CA  
USA 94612  
Tel: (510) 622-3154  
Fax: (510) 622-3210  
Email: [mmarty@oehha.ca.gov](mailto:mmarty@oehha.ca.gov)

#### **Daniel Goldstein**

Director, Medical Toxicology  
Monsanto Company  
800 N. Lindbergh Blvd  
St. Louis, MO  
USA 63167  
Tel: (314) 694-6469  
Fax: (314) 694-4028  
Email: [daniel.a.goldstein@monsanto.com](mailto:daniel.a.goldstein@monsanto.com)

**Jennifer Beth Sass**

Senior Scientist

Natural Resources Defense Council

1200 New York Avenue, NW

Washington, DC 20005

T: (202) 289-6868

F: (202) 289-1060

E: [jsass@nrdc.org](mailto:jsass@nrdc.org)

**México**

**Alvaro Román Osornio Vargas**

Jefe de Departamento

Programa Universitario de Medio Ambiente, UNAM

Edificio de Programas Universitarios, Ciudad Universitaria

México, DF 04510

México

Tel: 011 52 555 622 5212

Fax: 011 52 555 622 5207

Email: [arov@servidor.unam.mx](mailto:arov@servidor.unam.mx)

**Enrique Cifuentes García**

Director del Centro Colaborador en Salud Ambiental

Instituto Nacional de Salud Pública

Av. Universidad No. 655, Col. Sta. Ma Ahuatitlan

Cuernavaca, Morelos 62508

México

Tel: 011 52 777 329 3060

Fax: 011 52 777 101 2937

Email: [ecifuen@insp.mx](mailto:ecifuen@insp.mx)

## **Expert Advisory Board on Children's Health and the Environment (EAB)**

### **CANADA**

#### ***Dr. Irena Buka***

Child Health Clinic  
Misericordia Hospital  
16940 - 87 Avenue.  
Edmonton (Alberta) T5R 4H5  
P: 780-930-5731 (5942)  
F: 780-930-5794  
E.mail: [lbuka@cha.ab.ca](mailto:lbuka@cha.ab.ca)

#### ***Dr. Claire Infante-Rivard***

Joint Department of Epidemiology and Biostatistics and Occupational Health  
Faculty of Medicine  
McGill University  
1130 Pine Avenue West,  
Montréal (Québec) H3A 1A3  
P: 514-398-4231  
F: 514-398-7435  
E.mail: [claire.infante-rivard@mcgill.ca](mailto:claire.infante-rivard@mcgill.ca)

#### ***Jane MacDonald***

Primary Health Care Consultant  
Public Policy Department  
Canadian Nurses Association  
50 The Driveway  
Ottawa (Ontario) K2P 1E2  
P: 613-237-2133  
F: 613-237-3520  
[jmacdonald@cna-aiic.ca](mailto:jmacdonald@cna-aiic.ca)

### **MÉXICO**

#### ***Dra. Irma Aurora Rosas Pérez***

Coordinadora del Programa Universitario de Medio Ambiente (PUMA)  
Edificio de los Programas Universitarios  
Costado Norte del Conjunto "D" y "E" de la Facultad de Química – UNAM  
Universidad Nacional Autónoma de México  
Circuito de la Investigación Científica de  
Ciudad Universitaria, (Coyoacán)  
México DF 04510, México  
P: 525 55 622 5212 al 15  
F: 525 55 622 5207  
E.mail: [puma@servidor.unam.mx](mailto:puma@servidor.unam.mx)  
[iarp@troposfera.atmosfcu.unam.mx](mailto:iarp@troposfera.atmosfcu.unam.mx)

#### ***Dr. Alvaro Roman Osornio Vargas***

Jefe del Departamento de Salud y Ambiente del PUMA – UNAM (Investigador)  
Cto. de la Investigación Científica, C.U.  
México DF 04510, México  
P: 525 55 622 5212 (cell):5414 0057  
F: 525 55 622 5207  
E.mail: [arov@servidor.unam.mx](mailto:arov@servidor.unam.mx)  
[aosornio@yahoo.com](mailto:aosornio@yahoo.com)

#### ***Dr. Mariano Enrique Cebrian García***

Head of the Section – Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional  
Ave. IPN # 2508, Col. San Pedro Zacateco  
México DF 07360, México  
P: 525 55 061 3309 o 3310 (his secretary's)  
F: 525 55 747 7111  
E.mail: [mcebrian@mail.cinvestav.mx](mailto:mcebrian@mail.cinvestav.mx)

### **UNITED STATES**

#### ***Ms. Beatriz Barraza-Roppe***

Director of Health Promotion  
Colaborativo SABER  
7581 Hazard Center Drive  
San Diego, CA 92108  
P: 619-990-1032 (as of 03-11-03)  
F: 619-234-3977 (as of 03-11-03)  
[bbarraza@san.rr.com](mailto:bbarraza@san.rr.com)

**Dr. Bruce Lanphear**

Associate Director for Research  
Division of General and Community Pediatrics  
Children's Hospital Medical Center  
3333 Burnett Avenue  
Cincinnati, Ohio 45229  
P: 513-636-3778  
F: 513-636-4402  
E.mail: [bruce.lanphear@chmcc.org](mailto:bruce.lanphear@chmcc.org)

**Dr. Alan Woolf**

Program in Pediatric Environmental Health  
Children's Hospital  
1295 Boylston Street, suite 100  
Boston, MA  
USA 02115  
T: (617) 355-5187  
F: (617) 730-0049  
[alan.woolf@childrens.harvard.edu](mailto:alan.woolf@childrens.harvard.edu)