

## WASH CANADA Landscape Report 2012

### *How can we describe the Canadian WASH effort?*

WASH Canada and Harbinger Foundation are continuing to compile information on WASH expenditure by Canadian NGOs, to update their landscape report around Canadian WASH spending in developing countries. The research involves the collection of information on estimated annual WASH expenditure by Canadian NGOs based on 2010 and 2011 data taken from annual reports, web-based searches and direct data provision. With the goal to strengthen the collective Canadian voice around the world's water and sanitation crisis, the report is meant to support advocacy for WASH initiatives, encourage the Canadian government to have a clear WASH priority, and create awareness and increased funding for the Canadian WASH sector. As a collective unit, Canadian NGOs can support initiatives such as the landscaping report to increase exposure and movement for WASH in Canadian policy and the Canadian international development assistance budget. This report will serve to establish a baseline that depicts the significance of the WASH sector.

The conclusions drawn from the aggregate information will be a step towards showcasing the need for increasing advocacy and funding, evidence-based decision making, increasing aid effectiveness, initiating collaboration with strong partnerships and national agencies, and supporting global engagement. Please review the numbers and let us know if they accurately represent your organization's 2010/2011 spending. We aim to update the report annually. If you wish to contact us about the preliminary information presented here or have additional data to provide, please contact the WASH Canada office, [office@washcanada.ca](mailto:office@washcanada.ca).

### Estimated Annual WASH Expenditure by Canadian NGOs

NGOs with WASH as the Primary Focus						
NGO	Total Annual Expenditure (2009/2010)	Total Annual Expenditure (2010/2011)	Estimated WASH program expenditure in developing countries (2009/2010)		Estimated WASH Program expenditure in developing countries (2010/2011)	
	\$	\$	%	\$	%	\$
WaterCan	2,313,122	2,326,869	64%	1,470,691	62	1,439,140
One Drop	11,567,775	10,182,822	9%	994,425	43	4,353,477
IDE Canada	1,105,383	880,549	79%	873,108	74	651,597
Ryan's Well	861,488	836,220	57%	491,811	61	510,674
Centre for Affordable Water and Sanitation Technologies (CAWST)	1,982,190	2,520,483	18%	360,521	26	651,371
Water for People, Canada	367,059	362,914	1%	5,018	2	7,396
International Secretariat for Water	n/a	n/a	n/a	n/a	n/a	n/a
<b>Total</b>	<b>18,197,017</b>	<b>17,109,857</b>		<b>4,195,574</b>		<b>7,613,655</b>

NGOs with WASH as One Component of Development Strategy						
NGO	Total Annual International Program Expenditures (2009/2010)	Total Annual International Program Expenditures (2010/2011)	Estimated WASH program expenditures in developing countries (2009/2010)		Estimated WASH Program expenditure in developing countries (2010/2011)	
	\$		%	\$	%	\$
World Vision Canada	330,221,948	315,162,572	17%	56,137,000	X	X
PLAN Canada	84,723,520	105,585,669	20%	16,944,000	X	961,751
CARE, Canada	128,944,084	118,839,042	10%	12,982,401	5	6,474,420
Free the Children	10,454,880	X	20%	2,090,000	X	X
Oxfam Canada	16,077,850	19,894,409	12%	1,929,000	46	9,200,000
WUSC	8,986,585	n/a	.05%	449,879	n/a	n/a
Engineers Without Borders (EWB)	1,428,414	1,547,192	20%	285,682	20	304,433
David McAntony Gibson Foundation (DMGF)	577,137	1,453,403	40%	230,854	X	1,435,603
International Development and Relief Foundation (IDRF)	1,484,677	2,251,896	10%	148,467	36	800,000
Canadian Physicians for Aid and Relief (CPAR)	2,501,175	1,719,759	5%	125,058	12	206,371
African Medical and Research Foundation (AMREF) Canada	690,902	596,423	32%	218,340	2	23,289
Save the Children	11,739,837	36,567,445	n/a	n/a	X	X
Oxfam Quebec	24,147,640	39,598,752	n/a	n/a	X	X
Islamic Relief	936,851	6,400,000	n/a	n/a	30	1,900,000
<b>Total</b>				<b>91,417,127</b>		*
<b>Estimated Total Canadian NGO WASH Overseas Expenditures</b>				<b>95,612,701</b>		*

\*Unable to calculate totals due to insufficient information

\*\*New Canadian programs/NGOs funding WASH initiatives

X - Outstanding data

**Please see below the list of organizations, programs and institutions that are working on WASH initiatives and contributing to the WASH sector. They will be accounted for and captured in the next round of landscaping research.**

**NGOs and organizations:**

- The Water and Sanitation Rotarian Action Group (WASRAG)
- The Primates World Development Relief Fund
- Right to Play
- Operation Eyesight
- Obakki Foundation
- Medecins Sans Frontières
- Jane Goodall Foundation
- H2O 4 All
- Colin Glassco Foundation
- WASH Canada/Harbinger Foundation

**Programs and academic institutions working in WASH:**

- University of Toronto School of Applied Engineering, Centre for Global Engineering
- United Nations University – Institute of Water, Environment and Health (UNU-INWEH)
- Program for Global Pediatric Research
- Grand Challenges Canada
- University of McGill

**Businesses and foundations:**

- Cowater International
- Clearford
- Kenoli Foundation

<b>A Summary of WASH Related Research at Canadian Universities</b>			
<b>UNIVERSITY</b>	<b>PROFESSOR</b>	<b>DEPARTMENT</b>	<b>EXPERTISE</b>
<b>McGill University</b>	Dr. Van-Thanh-Van Nguyen	Civil Engineering and Applied Mechanics	hydrology and water resources management
	Dr. Nathalie Tufenkji	Associate Director, Brace Center for Water Resources Management	Bioadhesion as applies to water treatment/contamination
	Dr. Ronald Gehr	Civil Engineering	Water and wastewater treatment processes, aquatic chemistry and water and wastewater analysis
	Dr. Chandra Madramootoo	Bioresource Engineering and Brace Centre for Water Resources Management	water management, irrigation, drainage, water quality, watershed management, food security, agricultural research, and international agriculture development
<b>University of Alberta</b>	Dr. Ania Ulrich	Dept of Civil and Environmental Engineering	Transformation of organic compounds by microorganism , groundwater systems impacted by tailings ponds
	Dr. Subir Bhattacharjee	Dept of Mechanical Engineering	Water Treatment Technologies, Water Quality Management
<b>University of Guelph</b>	Dr. Beth Parker	School of Engineering and Scientific Director of the new Institute for Groundwater Research Innovation Partnerships	Groundwater contamination issues at industrial sites around the world
	Dr. John Cherry	Distinguished Professor Emeritus, Director of the University Consortium for Field-Focused Groundwater Contamination Research, Associate Director of G360 Centre for Applied Groundwater	contaminants in groundwater, monitoring and remediation

UNIVERSITY	PROFESSOR	DEPARTMENT	EXPERTISE
<b>University of Guelph</b>	Dr. Jana Levison	School of Engineering in the Water Resources Engineering	agricultural and climate change impacts on groundwater quality and quantity; source water protection; appropriate potable water technologies for marginalized communities
	Dr. Brajesh Dubey	Dept of Engineering	Integrated Solid Waste Management Issues
<b>University of Saskatchewan</b>	Dr. Helen Baulch	School of Environment and Sustainability Global Institute for Water Security	Water quality, freshwater ecosystems
<b>University of British Columbia</b>	Dr. Fariborz Taghipoor	Chemical and Biological Engineering	photoreactors for water purification
	Dr. Majid Mohseni	Chemical and Biological Engineering - Advanced Oxidation Research Laboratory	UV-based advanced oxidations for the removal of micropollutants and disinfection byproduct (DBP) precursors in drinking water
	Dr. Susan Baldwin	Chemical and Biological Engineering	Treatment of Cu contaminated water from wood-treatment sites by using sulphate reducing bacteria to facilitate metal precipitation.
<b>University of Toronto</b>	Dr. Yu-Ling Cheng	Director, Centre for Global Engineering	"Re-invent the Toilet" Challenge funded by the Bill and Melinda Gates Foundation
	Dr. Greg Evans	Chemical Engineering and Applied Chemistry	Environmental nuclear science: Inorganic pollutants in air/soil/water/plant systems;
	Dr. Ramin Farnood	Chemical Engineering and Applied Chemistry	Experimental and theoretical studies of the kinetics of wastewater disinfection; photolytic and photocatalytic destruction of organic pollutants by ultraviolet radiation

UNIVERSITY	PROFESSOR	DEPARTMENT	EXPERTISE
University of Toronto	Dr. Ron Hoffman	Dept of Civil Engineering	Drinking water treatment optimization and monitoring; Disinfection and oxidation technologies;
	Dr. Howard Hu	Director, Dean, Dalla Lana School of Public Health	Environmental health specialist focusing, particularly on impacts to children, adult chronic diseases and global health
	Dr. Don Kirk	Chemical Engineering and Applied Chemistry	Solid and Liquid Waste Research
	Robert Mathews	Political Science	foreign policies of the developing states (Africa) in civil wars in Africa; in Canadian relations with the Third World; and in human rights in foreign policy.
	Dr. Harry Ruda	Materials Science and Technology	Water treatment technology using nanostructures, both UV disinfection, as well as electrochemical treatments
	Dr. Daniel Sellen	Dalla Lana School of Public Health	Improved Nutrition, Maternal, Newborn, and Child Health; Human Ecology and Public Health Nutrition
	Dr. Brent Sleep	Civil and Mineral Engineering	Waste disposal and groundwater pollution
University of Western Ontario	Dr. Mita Ray	Department of Chemical and Biochemical Engineering	Treatment of contaminated water by Advanced Oxidation Processes (AOP)
Carleton University	Dr. Banu Ormeci	Environmental Engineering - Associate Professor and Canada Research Chair in Wastewater Treatment Engineering	Water and wastewater disinfection, biosolids treatment and disposal,
University of Ottawa	Dr. Kevin Kennedy	Dept of Engineering	Biological Waste Water treatment

UNIVERSITY	PROFESSOR	DEPARTMENT	EXPERTISE
University of Waterloo	Dr. Donald Burn	Civil and Environmental Engineering	Analysis of drought characteristics , Impacts of climate change on hydrologic variables and water resource systems
	Dr. Monica Emelko	Civil and Environmental Engineering	Pathogen removal during water and wastewater treatment, Physico-chemical water and wastewater treatment processes, Design of constructed wetlands for wastewater treatment, Riverbank (in-bank) filtration
	Dr. Peter Huck	Civil and Environmental Engineering	water supply systems, with and treatment, (e.g. UV disinfection and membranes), Identification and removal of trace chemical contaminants
	Dr. Shree Pagsuyoin	Civil and Environmental Engineering	contaminants in surface water, Environmental impact assessment, Water and sanitation technologies for developing countries
United Nations University -Institute for Water, Environment and Health (UNU-INWEH)	Dr. Zafar Adeel	Director, UNU-INWEH	water and environmental issues, including monitoring, water pollution, water management in dry areas, solutions to industrial environmental problems, policy formulation.

UNIVERSITY	PROFESSOR	DEPARTMENT	EXPERTISE
<b>United Nations University -Institute for Water, Environment and Health (UNU-INWEH)</b>	Dr. Corinne Schuster-Wallace	UNU-INWEH	Water-health nexus including the areas of environmental factors climate change, impacts on and outbreaks of waterborne diseases and linkages to human health and well-being.
<b>Ryerson University</b>	Dr. Lynda McCarthy	Faculty of Eng. & Arch. Science	Aquatic ecotoxicologist; Great Lakes pollution and remediation; the impact of land-applied pulp mill and municipal sewage biosolids on simple organisms
	Dr. Jorge Loyo	Faculty of Eng. & Arch. Science	Environmental science & water quality improvement;