



LOCAL INVESTMENT IN THE GREAT LAKES AND ST. LAWRENCE

List of Survey Respondents

United States

U.S. Towns and Cities (43)

City of Chicago, IL
City of Evanston, IL
City of Highland Park, IL
City of Zion, IL
Village of Lake Bluff, IL

City of Angola, IN
City of Hobart, IN

City of Bad Axe, MI
City of Battle Creek, MI
City of Essexville, MI
City of Ferndale, MI
City of Grand Rapids, MI
City of Kalamazoo, MI
City of Marquette, MI
City of Midland, MI
City of Mount Pleasant, MI
City of Norton Shores, MI
City of Portage, MI
City of Sandusky, MI
City of Warren, MI
City of West Branch, MI

City of Grand Marais, MN

U.S. Counties (31)

Lake County, IL

Porter County, IN

Charlevoix County, MI
Leelanau County, MI
Mason County, MI
Muskegon County, MI
Oceana County, MI
Ogemaw County, MI
Osceola County, MI
Washtenaw County, MI

Cayuga County, NY
Chemung County, NY
Genesee County, NY
Monroe County, NY
Niagara County, NY

City of Hoyt Lakes, MN
City of Silver Bay, MN

City of Buffalo, NY
City of Rochester, NY

Village of Cuyahoga Heights, OH
City of Montpelier, OH
City of Oak Harbor, OH
City of Rocky River, OH
City of Solon, OH
City of South Euclid, OH
City of Toledo, OH
City of Vermilion, OH

City of Erie, PA

City of Brookfield, WI
City of Greenfield, WI
Village of Luxemburg, WI
City of Menomonee Falls, WI
City of Racine, WI
City of Superior, WI
City of West Allis, WI
Village of Whitefish Bay, WI

Onondaga County, NY
Oswego County, NY

Ashtabula County, OH
Defiance County, OH
Hancock County, OH
Henry County, OH
Erie County, OH
Lorain County, OH
Lucas County, OH

Calumet County, WI
Oconto County, WI
Ozaukee County, WI
Portage County, WI
Sheboygan County, WI
Vilas County, WI
Winnebago County, WI



U.S. Reclamation Districts (2)

Chicago Metropolitan Water Reclamation District, IL
City of Milwaukee Metropolitan Sewerage District, WI

U.S. Ports (2)

Lorain Port Authority, OH
Port of Milwaukee, WI

Canada

Ontario Regional Municipalities (3)

Region of Waterloo, ON
Region of York, ON

Region of Niagara, ON

Ontario Conservation Authorities (20)

Ausable Bayfield Conservation Authority
Catfish Creek Conservation Authority
Central Lake ON Conservation Authority
Essex Region Conservation Authority
Grand River Conservation Authority
Grey Sauble Conservation Authority
Kawartha Conservation Authority
Lower Thames Valley Conservation Authority
Maitland Valley Conservation Authority
Lower Trent Region Conservation Authority

Mississippi Valley Conservation Authority
Niagara Peninsula Conservation Authority
North Bay-Mattawa Conservation Authority
Nottawasaga Valley Conservation Authority
Otonabee Region Conservation Authority
Saugeen Conservation Authority
South Nation Conservation Authority
St. Clair Region Conservation Authority
Toronto and Region Conservation Authority
Upper Thames River Conservation Authority

Canadian Towns and Cities (42)

City of Barrie, ON
City of Chatham-Kent, ON
City of Cornwall, ON
City of Hamilton, ON
City of Markham, ON
City of Mississauga, ON
City of Niagara Falls, ON
City of Orillia, ON
City of Oshawa, ON
City of Peterborough, ON
City of Port Colborne, ON
City of Sault Ste. Marie, ON
City of St. Catharines, ON
City of Thunder Bay, ON
City of Toronto, ON
City of Windsor, ON
City of Woodstock, ON
Town of the Blue Mountains, ON
Town of East Gwillimbury, ON
Town of Fort Erie, ON
Town of Goderich, ON

Town of Grimsby, ON
Town of Halton Hills, ON
Town of Oakville, ON
Town of Whitby, ON
Township of the Archipelago, ON
Township of Carling, ON

Ville de Beaconsfield, QC
Ville de Chambly, QC
Ville de Charlemagne, QC
Ville de Côte-Saint-Luc, QC
Ville de Dorval, QC
Village of Kirkland, QC
Ville de La Prairie, QC
Ville de Laval, QC
Ville de Les Cèdres, QC
Ville de Mirabel, QC
Ville de Montréal, QC
Ville de Pointe-Claire, QC
Ville de Québec, QC
Ville de Salaberry-de-Valleyfield, QC
Ville de Trois-Rivières, QC

Local Investment in the Great Lakes and St. Lawrence Survey Results Summary



	ALL SURVEY RESPONDENTS (143)	U.S. RESPONDENTS (78)	CANADA RESPONDENTS (65)	<i>ONTARIO RESPONDENTS (50)</i>	<i>QUEBEC RESPONDENTS (15)</i>
Total Water Quality Management Investment	\$2.48 B	\$1.48 B	\$1.0 B	\$779 M	\$228 M
<i>Capital Improvement to Wastewater Systems</i>	\$1.13 B	\$717 M	\$416 M	\$341 M	\$75 M
<i>Operation & Maintenance of Wastewater Systems</i>	\$850 M	\$559 M	\$291 M	\$213 M	\$78 M
<i>Other Water Quality Management Investments</i>	\$504 M	\$204 M	\$300 M	\$225 M	\$75 M
Total Ecosystem Protection Activities Investment	\$784 M	\$312 M	\$472 M	\$401 M	\$71 M
<i>Greenspace Protection</i>	\$213 M	\$94 M	\$119 M	\$103 M	\$16M
<i>Recycling & Reuse Programs</i>	\$185 M	\$82 M	\$103 M	\$74 M	\$29 M
<i>Alternate Transportation (excludes mass transit)</i>	\$151 M	\$10 M	\$141 M	\$132 M	\$9 M
<i>Other Ecosystem Protection Activities Investments</i>	\$235 M	\$126 M	\$109 M	\$92 M	\$17 M
GRAND TOTAL	\$3.27 B	\$1.79 B	\$1.48 B	<i>\$1.18 B</i>	<i>\$299 M</i>

Local Investment in the Great Lakes and St. Lawrence Survey Results Summary



** All dollar figures are in U.S. dollars. Canadian expenditures were converted to U.S. dollars using the average exchange rate for 2006.



Local Investment in the Great Lakes and St. Lawrence

Fast facts:

- **The estimated total local investment in Great Lakes-St. Lawrence protection and restoration is over \$15 billion per year** (estimate for the entire survey population of 688 local governments across the Great Lakes and St. Lawrence region).
 - **The estimated total local investment in wastewater systems operation, maintenance and infrastructure is over \$12 billion per year.**
 - Based on survey results, **U.S. local governments make capital investments in wastewater infrastructure in the Great Lakes Basin at well over 10 times the federal government.**
-

Survey details:

- Survey responses from 143 Great Lakes and St. Lawrence local governments document an investment of close to \$3.3 billion per year in Great Lakes-St. Lawrence protection and restoration. The response rate for the survey was 21% (with 78 responses received from the U.S. and 65 from Canada).
 - Of the surveyed investment amount of approximately \$3.3 billion, \$2.5 billion is invested in wastewater systems operation, maintenance and infrastructure and \$784 million is invested in ecosystem protection and restoration activities, such as greenspace protection, recycling and reuse programs, and alternate transportation (exclusive of mass transit).
 - Survey results indicate that local government investment in wastewater systems operation, maintenance, and infrastructure represented approximately 60% of the total investments surveyed.
 - Twenty-three survey respondents (representing a population of over 18 million) are investing over \$19 million to develop and design long term CSO control plans to meet clean water standards. The costs to implement these plans are in the billions.
-

Additional facts:

- In January 2008, U.S. EPA released a report that documents an almost \$205.5 billion need for clean water infrastructure across the U.S., of which about \$73 billion can be attributed to the eight Great Lakes states. In Canada, the estimate for the amount needed to upgrade water and wastewater infrastructure is approximately \$31 billion nationally.
- In 1978, U.S. federal support accounted for 78% of overall wastewater infrastructure spending, but makes up just 3% today. Since 2004, U.S. federal funding for the Clean Water State Revolving Fund, a loan program that supports community and state wastewater infrastructure projects, has declined by 49%.



Local Investment in the Great Lakes and St. Lawrence

Fast facts:

- Canadian federal funding for water and wastewater infrastructure in Quebec and Ontario has been approximately \$870 million over 5 years.

Local Investments in Ecosystem Protection and Restoration

Survey Results: United States

➤ Highlights

- 78 U.S. local governments answered the survey;
- Servicing a population of over 17 million;
- Invested more than \$1.79 billion on Great Lakes protection and restoration activities in 2006

- Most important findings:
 - Capital Improvement to Wastewater Systems: \$717 M
 - Operation and Maintenance of Wastewater Systems: \$559 M
 - Drinking Water Management: \$107 M
 - A total of over \$1.48 billion spent on **Water Quality Management**

 - Greenspace Protection: \$94 M
 - Recycling and Reuse Programs: \$82 M
 - Brownfields cleanup: \$41 M
 - A total of over \$312 M spent on **Ecosystem Protection and Restoration**

U.S. Local Governments Expenditures by Survey Activity (in thousand US\$)

	Amount	% of all expenditures surveyed
Capital Improvement to Wastewater Systems	717,429	40%
Operation and Maintenance of Wastewater Systems	558,940	31%
Watershed Protection Initiatives	67,126	4%
Long-Term Combined Sewer Overflow Control Plans	16,693	1%
Water Quality Monitoring	13,135	1%
Drinking Water Management	107,363	6%
Water Quality Management	1,480,686	83%
Landfill Monitoring and Leachate Management Programs	3,925	0.2%
Recycling and Reuse Programs	81,722	5%
Hazardous Waste Management Programs	4,210	0.2%
Beach and Shoreline Management	20,926	1%
Brownfield Cleanup	41,212	2%
Comprehensive Planning and Smart-Growth Principles	26,384	2%
Greenspace Protection	94,303	5%
Invasive Species Prevention and Control	1,116	0.1%
Fish Population Maintenance	443	0.02%
Port and Marinas Best Management Practices	3,632	0.2%
Deicing Best Management Practices	324	0.02%
Alternate Transportation	9,787	1%
Air Quality Programs	1,389	0.1%
Energy Conservation and Alternatives	21,511	1%
Environmental Education	1,504	0.1%
Ecosystem Protection and Restoration Activities	312,386	17%
GRAND TOTAL	1,793,072	100%

Local Investments in Ecosystem Protection and Restoration

Survey Results: Province of Ontario

➤ Highlights (in US\$)

- 50 Ontario local governments answered the survey;
- Servicing a population of over 6.9 million;
- Invested more than \$1.1 billion on Great Lakes protection and restoration activities in 2006

- Most important findings:
 - Capital Improvement to Wastewater Systems: \$341 M
 - Operation and Maintenance of Wastewater Systems: \$213 M
 - Drinking Water Management: \$147 M
 - A total of over \$778 M spent on **Water Quality Management**

 - Alternate Transportation: \$132 M
 - Greenspace Protection: \$103 M
 - Recycling and Reuse Programs: \$74 M
 - A total of over \$401 M spent on **Ecosystem Protection and Restoration**

Ontario Local Governments Expenditures by Survey Activity (in thousand US\$)

	Amount	% of all expenditures surveyed
Capital Improvement to Wastewater Systems	341,165	29%
Operation and Maintenance of Wastewater Systems	212,828	18%
Watershed Protection Initiatives	66,771	5%
Long-Term Combined Sewer Overflow Control Plans	2,604	0.2%
Water Quality Monitoring	8,353	0.7%
Drinking Water Management	147,149	12%
Water Quality Management	778,870	66%
Landfill Monitoring and Leachate Management Programs	9,197	0.8%
Recycling and Reuse Programs	73,955	6%
Hazardous Waste Management Programs	4,878	0.4%
Beach and Shoreline Management	1,762	0.1%
Brownfield Cleanup	5,806	0.5%
Comprehensive Planning and Smart-Growth Principles	4,805	0.4%
Greenspace Protection	103,310	8%
Invasive Species Prevention and Control	3,158	0.3%
Fish Population Maintenance	546	0.05%
Port and Marinas Best Management Practices	323	0.03%
Deicing Best Management Practices	5,250	0.4%
Alternate Transportation	131,656	11%
Air Quality Programs	1,298	0.1%
Energy Conservation and Alternatives	47,661	4%
Environmental Education	7,542	0.6%
Ecosystem Protection and Restoration Activities	401,146	34%
GRAND TOTAL	1,180,016	100%

Local Investments in Ecosystem Protection and Restoration

Survey Results: Province of Québec

➤ Highlights (in US\$)

- 15 Québec local governments answered the survey;
- Servicing a population of 2.8 million;
- Invested close to \$300 M on St. Lawrence protection and restoration activities in 2006

- Most important findings:
 - Operation and Maintenance of Wastewater Systems: \$78 M
 - Capital Improvement to Wastewater Systems: \$75 M
 - Drinking Water Management: \$65 M
 - A total of over \$228 M spent on **Water Quality Management**

 - Recycling and Reuse Programs: \$29 M
 - Greenspace Protection: \$16 M
 - Alternate Transportation: \$9 M
 - A total of close to \$71 M spent on **Ecosystem Protection and Restoration**

Québec Local Governments Expenditures by Survey Activity (in thousand US\$)

	Amount	% of all expenditures surveyed
Capital Improvement to Wastewater Systems	75,302	25%
Operation and Maintenance of Wastewater Systems	78,360	26%
Watershed Protection Initiatives	7,990	3%
Long-Term Combined Sewer Overflow Control Plans	581	0.2%
Water Quality Monitoring	1,231	0.4%
Drinking Water Management	64,830	21%
Water Quality Management	228,294	76%
Landfill Monitoring and Leachate Management Programs	1,013	0.3%
Recycling and Reuse Programs	29,482	10%
Hazardous Waste Management Programs	1,539	0.5%
Beach and Shoreline Management	236	0.1%
Brownfield Cleanup	558	0.2%
Comprehensive Planning and Smart-Growth Principles	3,293	1.1%
Greenspace Protection	15,585	5%
Invasive Species Prevention and Control	84	0.03%
Fish Population Maintenance	132	0.04%
Port and Marinas Best Management Practices	32	0.01%
Deicing Best Management Practices	48	0.02%
Alternate Transportation	9,638	3%
Air Quality Programs	2,055	0.7%
Energy Conservation and Alternatives	6,330	2%
Environmental Education	580	0.2%
Ecosystem Protection and Restoration Activities	70,607	24%
GRAND TOTAL	298,901	100%