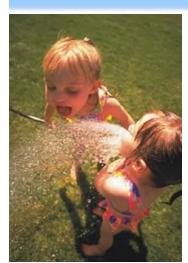


# **Program Overview**











# **Program Overview**





- Serves 3.3 million residents and businesses in Toronto, and portions of York and Peel
- Over \$28 billion in infrastructure (replacement value)
- Operates many facilities 24 hours per day, 365 days per year
- Infrastructure renewal and state of good repair supported by multi-year business plan
- Program is 100% rate-supported and no reliance on the property tax base to support Toronto Water operating and capital budgets.

### **Inventory of Assets - Replacement Value of \$28 Billion**

#### **WASTEWATER - \$19.0 Billion**

- 4 wastewater treatment plants
- 5 storage and detention tanks
- 4,397 km of sanitary, 1,453 km of combined and 396 km of trunk sewer
- 4,937 km of storm sewers and
   546 km of roadside ditches
- 151,485 maintenance holes
- 463,300 sewer service connections
- 82 wastewater pumping stations
- 371 km of watercourses, 89 stormwater management ponds
- 2,300 outfalls & 165,662 catchbasins

#### WATER - \$9.0 Billion

- 4 water filtration plants
- 10 reservoirs and 4 elevated storage tanks
- 5,427 km of distribution watermains and 528 km of trunk watermains
- 60,933 valves and 40,817 hydrants
- 470,202 water service connections, plus York Region (population served 600,000)
- 18 water pumping stations



# **Toronto Water Strategic Plan 2010-2020**

#### **Mission Statement**

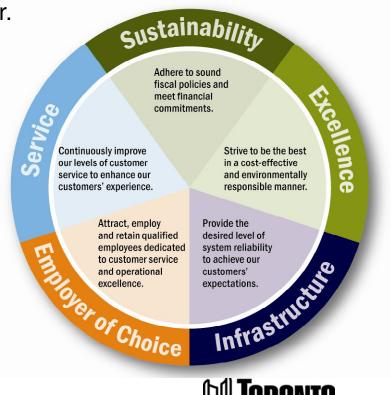
To provide quality water services through supplying drinking water and the treatment of wastewater and stormwater to residents, businesses and visitors in order to protect public health, safety and property in an environmentally and a fiscally responsible manner.

#### **Vision Statement**

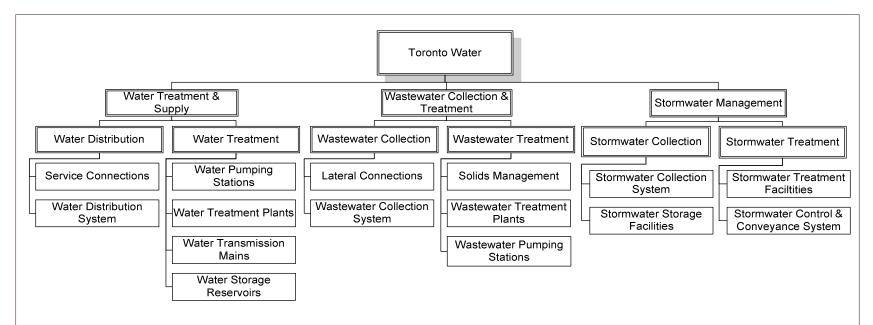
Toronto Water will be a leader in achieve in excellence and efficiency in all aspects of water service delivery.

### **Guiding Principles**

- Continuous Service Delivery Improvement
- II. Financial Vitality, Viability and Sustainability
- III. Operational Excellence
- IV. Infrastructure Management
- V. Employer of Choice



## **Toronto Water Program Map**



#### **Toronto Water – Key Services**

**Water Treatment & Supply**: Treat and distribute drinking water in a safe, responsible manner in accordance with all legislated requirements.

**Wastewater Collection & Treatment**: Collect and treat wastewater in a safe, responsible manner in accordance with all legislated requirements.

**Stormwater Management**: Collect and treat stormwater in a safe, responsible manner in accordance with all legislated requirements.



### **Financial Performance**

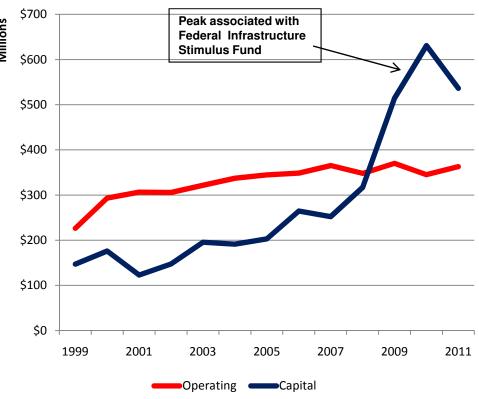
### **Stable Operating Costs**

 Since amalgamation, staffing has been reduced by over 355 net positions

### **Capital Spending**

- Increased revenue generated by rate increases have been reinvested in infrastructure
- Capital investment has tripled over the last ten years
- Rate increases have gone directly to capital program



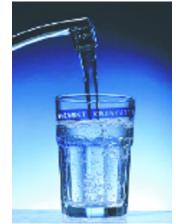


# **Program Challenges**

### **Strict Regulatory Control & Oversight**

- The water and wastewater industry continues to experience increased legislative and regulatory reform impacting both operating and capital budgets.
- New requirements January 2013 include a Statutory Standard of Care to be exercised by Council/Senior Managers under the Safe Drinking Water Act.
- The Federal Systems Effluent Regulations, enacted on July 18, 2012, includes new enforcement activities and potential penalties for non-compliance including:
  - Eliminating chlorinated effluent from Ashbridges
     Bay Treatment Plan by January 1, 2015.
  - Measuring and reporting all combine sewer overflows within the City.







# Program Challenges...(cont'd.)

### **Aging Infrastructure and Capital Renewal Rates**

• \$1.6 billion backlog (\$1.1 billion for underground assets; \$500 million for water/wastewater treatment plants and facilities).

### **Inadequate Reserve Balances**

 For the past three years, Toronto Water has exceeded capital delivery targets, coupled with declining consumption leading to lower than forecasted revenues has depleted reserves.

### **Long-term Financial Stability**

 Existing 10-year financial plan relies primarily on successive water rate increases to fund continued infrastructure investment to conform with pay-as-you-go financing strategy.

### **Declining water consumption**

 Downward trend over the last decade, despite population growth. Anticipate base water consumption will continue to decrease by 1.5% each year until 2015.

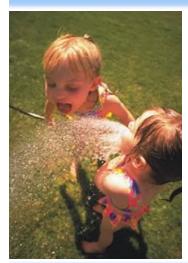








# 2013 Recommended Operating Budget











### **Service Performance**

WATER TREATMENT AND SUPPLY	2009	2010	2011
Operating Cost for the Distribution/Transmission of Drinking Water per km of Water Distribution Pipe	\$24,722.11	\$23,160.32	\$18,410.19
Number of Watermain Break per 100 km of Water Distribution Pipe (excluding connections)	20.8	21.6	27.3
Operating Cost for the Treatment of Drinking Water per Megalitre of Drinking Water Treated	\$209.47	\$149.64	\$182.85
Operating Cost for the Treatment and Distribution/Transmission of Drinking Water per Megalitre of Drinking Water Treated	\$572.73	\$498.53	\$462.60
WASTEWATER COLLECTION AND TREATMENT	2009	2010	2011
Operating Cost of Wastewater Collection/Conveyance per km of Pipe	\$19,706.93	\$15,816.40	\$18,041.34
Annual Number of Wastewater Main Backups per 100 km of Wastewater Main	5.27	8.01	10.79
Operating Cost of Wastewater Treatment/Disposal per Megalitre Treated	\$403.99	\$434.59	\$389.21
Operating Cost of Wastewater Treatment/Disposal and Collection/Conveyance per Megalitre Treated	\$646.47	\$641.16	\$616.99
	2000	2040	2011
STORMWATER MANAGEMENT	2009	2010	2011
Operating Cost for Urban Stormwater Management per km of Drainage System	\$1,232.23	\$4,708.70	\$7,718.16
Total Costs of Urban Stormwater Management per km of Drainage System	\$1,232,23	\$5,105.55	\$8,250.51

# 2012 Budget Variance (forecast December 31, 2012)

	2010 Actuals	2011 Actuals	2012 Approved* Budget	2012 Projected Actuals**	2012 Approv vs Projecte Variar	d Actual
(In \$000s)	\$	\$	\$	\$	\$	%
Gross Expenditures	352,884.8	381,227.8	383,957.2	358,996.4	(24,960.8)	(6.5)
Revenues	758,000.1	809,449.4	895,243.8	875,602.6	(19,641.2)	(2.2)
Capital Contribution	405,115.3	428,221.6	511,286.6	516,606.2	5,319.6	1.0
Approved Positions	1,731.4	1,723.4	1,689.8	1,438.0	(251.8)	(14.9)

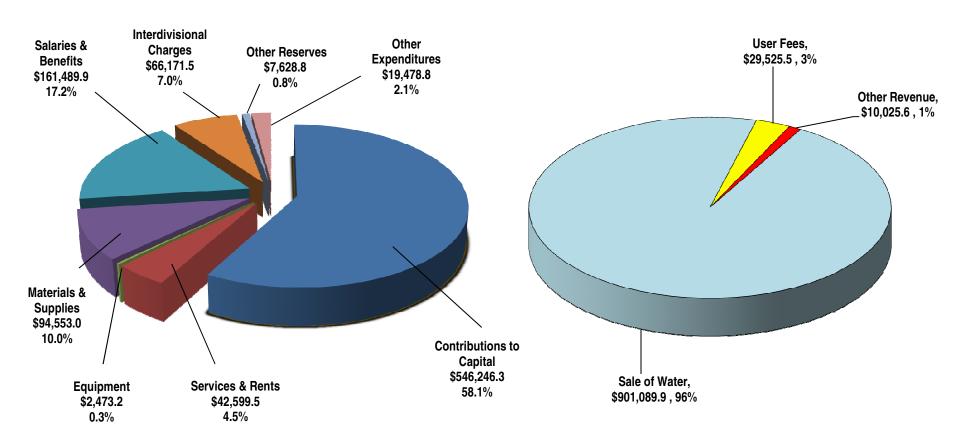
<sup>\* 2012</sup> Approved Budget adjusted for in-year changes.

<sup>\*\*</sup> Based on the Third Quarter Operating Budget Variance Report.

# 2013 Gross Operating Expenditures by Service and Funding Sources \$940,641,000

2013 Operating Budget by Expenditure Category (\$000s)

2013 Operating Budget by Funding Source (\$000s)



## 2013 Requested Operating Budget \$394 Million

	20	)12	2013 Reco	ommended Ope	Change Recommo		FY Incremental Outlook		
	Approved Budget	Projected Actual	2013 Rec. Base	2013 Rec. New/Enhanc ed  2013 Rec. Budget  2012 Appvd. Budget		2014	2015		
(In \$000s)	\$	\$	\$	\$	\$	\$	%	\$	\$
GROSS EXP.	383,957.2	358,996.4	394,394.6		394,394.6	10,437.4	2.7	4,783.8	3,124.8
REVENUE	895,243.8	875,602.6	940,057.1	583.9	940,641.0	45,397.2	5.1	168.0	604.8
CAPITAL CONTRIBUTION	511,286.6	516,606.2	545,662.5	583.9	546,246.4	34,959.8	6.8	(4,615.8)	(2,519.9)
Approved Positions	1,689.8	1,438.0	1,724.8	0.0	1,724.8	35.0	2.1	2.0	4.0

## **2013 Operating Budget Changes (\$ millions)**

### **Significant Budget Changes for 2013**

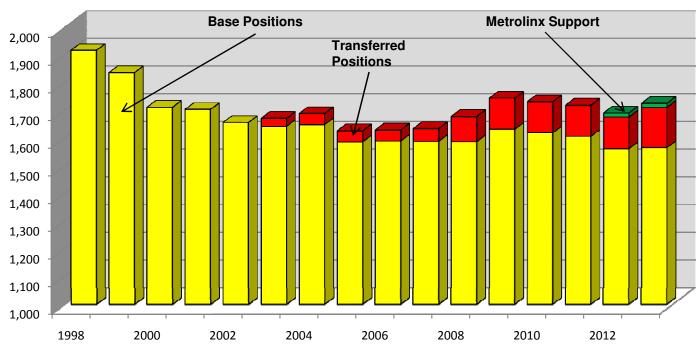
Reductions:		Increases:	
Annualized Impact of 2012 Budget	(\$1.095)	Operating Impact of Capital Other Base Budget changes	\$5.562 \$1.864
Customer Service Unit Efficiencies PCS & OPS Unit Efficiencies	(\$0.113) (\$0.141)		φ1.004
Reductions Based on Actuals Tree Planting DC Recovery	(\$2.129) (\$0.195)	Economic Factors: Other Non-Labour Inflationary	
Other Service Efficiencies	(\$0.478)	increases Staff cost Increases per Contracts	\$3.374 \$3.524
Revenue Changes:			
Base User Fees & Other Revenue Inflationary Adjustment to Fees	(\$1.917) (\$0.281)		



# **2013 Operating Budget Request – By Category and Funding Source**

Category of Expense	2010 Actual	2011 Actual	2012 Budget	2012 Projected Actual	2013 Recomm. Budget	2013 Change from 2012 Approved Budget		2014 Outlook	2015 Outlook
	\$	\$	\$	\$	\$	\$	%	\$	\$
Salaries and Benefits	141,791.6	147,615.4	158,763.5	140,339.2	161,489.9	2,726.4	1.7%	162,669.3	165,447.1
Materials and Supplies	84,784.7	83,123.9	91,588.7	85,365.5	94,553.0	2,964.3	3.2%	96,985.5	97,382.5
Equipment	2,908.4	3,179.5	2,330.7	2,330.7	2,473.2	142.5	6.1%	2,473.2	2,473.2
Services & Rents	35,594.7	42,101.9	38,759.0	33,450.8	42,599.5	3,840.5	9.9%	42,959.5	42,959.5
Contributions to Capital	405,115.3	438,492.2	511,286.6	511,779.9	546,246.3	34,959.7	6.8%	546,246.3	546,246.3
Contributions to Reserve/Res Funds	7,748.3	8,050.4	6,965.4	6,965.4	7,628.8	663.3	9.5%	8,828.8	8,828.8
Other Expenditures	17,631.2	21,780.5	18,884.4	21,975.0	19,478.8	594.4	3.1%	19,478.8	19,478.8
Interdivisional Charges	62,425.8	65,105.7	66,665.4	66,165.4	66,171.5	(494.0)	-0.7%	65,783.3	65,783.3
TOTAL GROSS EXPENDITURES	758,000.0	809,449.4	895,243.8	868,372.2	940,641.0	45,397.1	5.1%	945,424.7	948,599.5
Interdivisional Recoveries	83.0	120.4	3.2	3.2	-	-3.2	-100.00%	-	-
Provincial Subsidies	-	-	-	-	-	0	n/a	-	-
Federal Subsidies	-	-	-	-	-	0	n/a	-	-
Other Subsidies	68.1	-	-	-	-	0	n/a	-	-
User Fees & Donations	14,300.7	39,143.6	35,260.0	30,901.6	29,525.5	(5,734.5)	-16.3%	29,693.6	30,298.4
Transfers from Capital Fund	1,413.5	2,100.3	2,178.5	2,178.5	1,989.0	(189.5)	-8.7%	1,989.0	1,989.0
Contribution from Reserve Funds	-	6,392.7	-	-	195.0	195.0	n/a	195.0	195.0
Sundry Revenues	3,577.3	6,741.7	2,692.1	2,692.1	7,841.6	5,149.5	191.3%	7,841.6	7,841.6
Sale of Water	738,557.4	754,950.7	855,110.0	837,916.3	901,089.9	45,979.9	5.4%	901,089.9	901,089.9
TOTAL REVENUE	758,000.0	809,449.4	895,243.8	873,691.8	940,641.0	45,397.20	5.1%	940,809.1	941,413.9
TOTAL NET EXPENDITURES	0	0	0	(5,319.5)	0	0	0.00%	4,615.7	7,185.6
APPROVED POSITIONS	1,731.40	1,676.30	1,689.80	1,438.0	1,724.80	35	2.10%	1,726.8	1,730.8

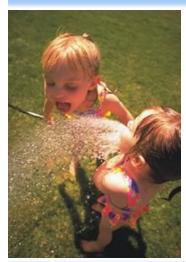
# **Staffing Trends – Approved Positions**



	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Base Positions	1,916	1,836	1,711	1,703	1,656	1,642	1,648	1,586	1,589	1,588	1,587	1,632	1,619	1,606	1,561	1,565
Transfers	0	0	0	0	0	29	40	40	40	46	91	112	112	112	115	146
In Year (Metrolinx)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
Total Positions	1,916	1,836	1,711	1,703	1,656	1,671	1,688	1,626	1,629	1,634	1,678	1,744	1,731	1,718	1,690	1,725



# 2013 Recommended Capital Budget











# 2012 Key Accomplishments





### **Completion of major capital projects**

- Avenue Road Watermain
- Expansion of the Milliken Pumping Station and Reservoir
- Expansion of the Dufferin Reservoir
- F.J. Horgan Water Treatment Plant production capacity increased by 40% including conversion to ozone primary disinfection at plant.
- Coxwell Sanitary Trunk Sewer Bypass

Ashbridges Bay WWTP Primary Treatment and Odour

Control (D-Building)





# 2012 Key Accomplishments...(cont'd.)

### **Water Meter Program**

- Achieved 96% installation target
- Total residential meters installed in 2012: 79,459 (total meters installed since 2010 –126,483)

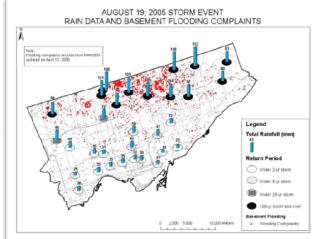
### **Corrosion Control Program**

 Detailed design for the construction of Corrosion Control Facilities in progress – implementation Fall 2013

# **Basement Flooding Environmental Assessments (EA)**

 EA studies for 15 of 34 chronic basement flooding areas completed (18 studies to be completed by the end of 2014, one additional study to be completed in 2015)







# 2012 Key Accomplishments....(cont'd.)





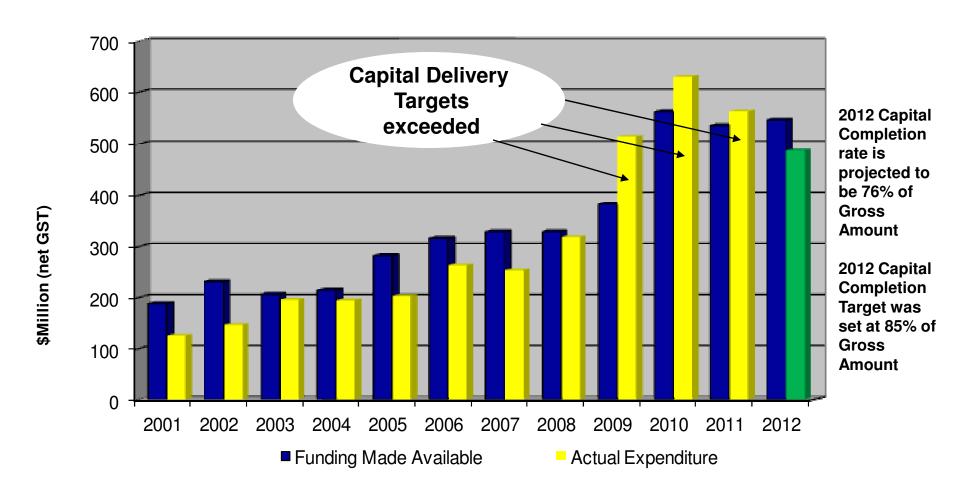
### **Wet Weather Flow Master Plan – Completed EAs**

- Don River and Central Waterfront Project EA
- Etobicoke Stormwater Management Facilities Class EA
- Duncan Creek Erosion Control and Creek Restoration Master Plan Class EA
- Mud Creek Geomorphic Systems Master Plan Class
   FA

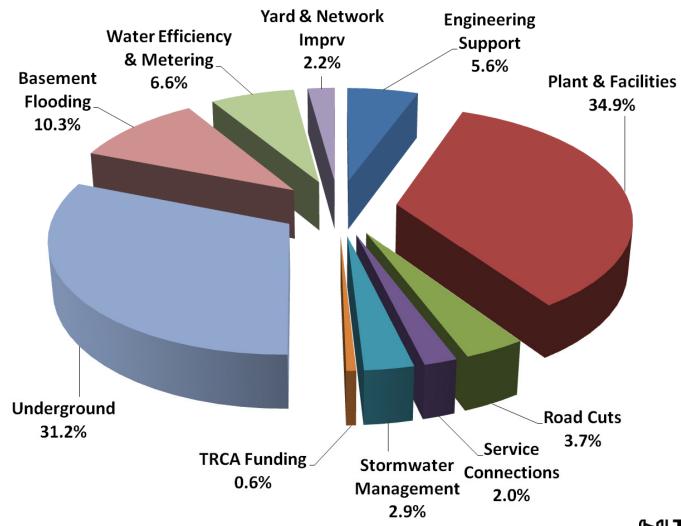
# Portlands Acceleration Initiative – Waterfront Sanitary Service Master Plan Class EA

 Completion of Environmental Assessment to support sanitary servicing needs for the redevelopment of the waterfront area.

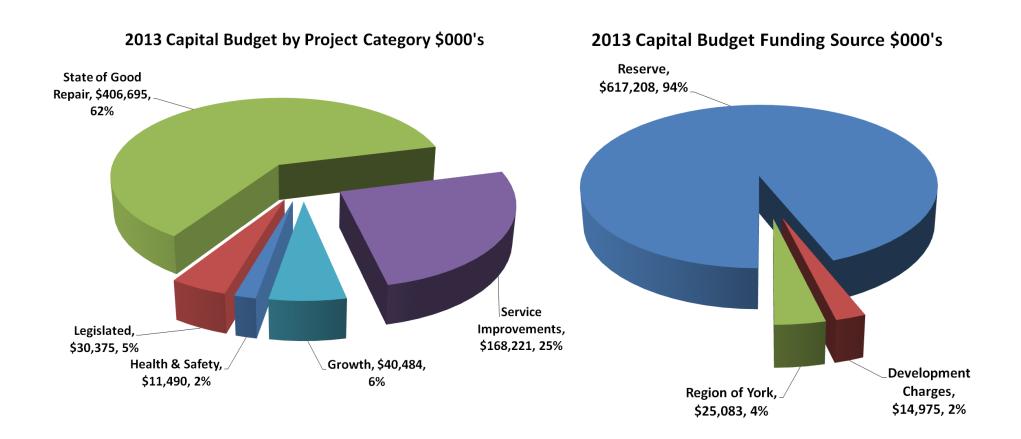
### 2001-2012 Capital Budget Expenditure Rates (\$millions)



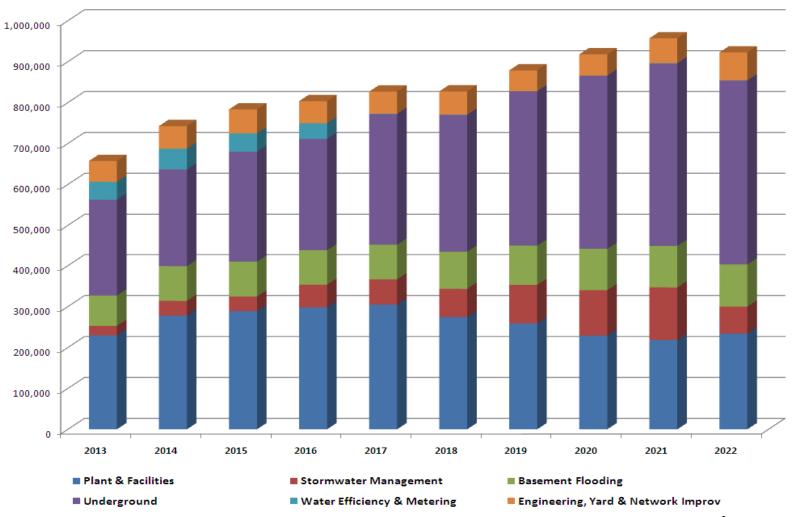
# 2013 Capital Budget \$657 Million (Gross)



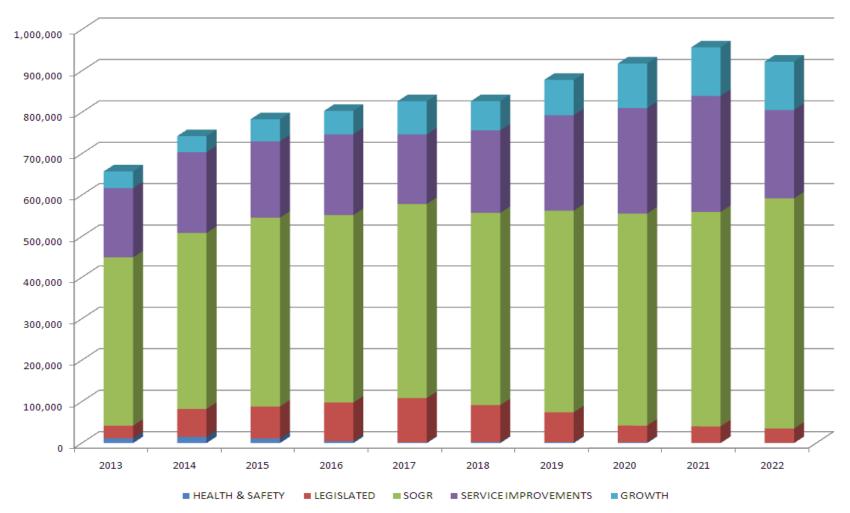
# 2013 Capital Budget by Project Category and Funding Source



# 2013-2022 Capital Plan by Asset Class (\$000s)



# 2013-2022 Capital Plan by Category (000s)



# **Summary of Major Capital Projects**





### **New & Future Major Projects**

- Initiation of new projects in 2013
  - Ashbridges Bay WWTP Primary Treatment and Odour Control (P Building) – mitigates impacts to local community
  - Highland Creek WWTP odour control upgrades
  - Humber WWTP odour control upgrades
  - Emery Creek storm water management ponds
- Future major capital projects
  - Phase 1 of project to twin the Coxwell Sanitary Trunk Sewer (2014)
  - Bonar Creek storm water management pond (2014)
  - ABTP UV Disinfection (2015)
  - ABTP M&T Pumping Station Rebuild (2016)

# **Program Challenges – Future Year Issues**

### **Recommended Reductions in 2012-2021 Capital**

### Decreases of \$1.132 billion or 14% in ten year plan attributed to:

- Accelerated capital spending during 2009-2011
- Declining water consumption forecast
- Accommodating increased capital costs for recent Council Direction (i.e. Highland Creek Biosolids, Ashbridges UV Disinfection)

### **Significant Unfunded Pressures:**

- Additional \$385 million in unfunded capital pressures
- Wet Weather Flow Master Plan \$1.2 billion+

# Key Issues for 2013 and Beyond

### **Summary of Toronto Water Capital Budget Pressures**

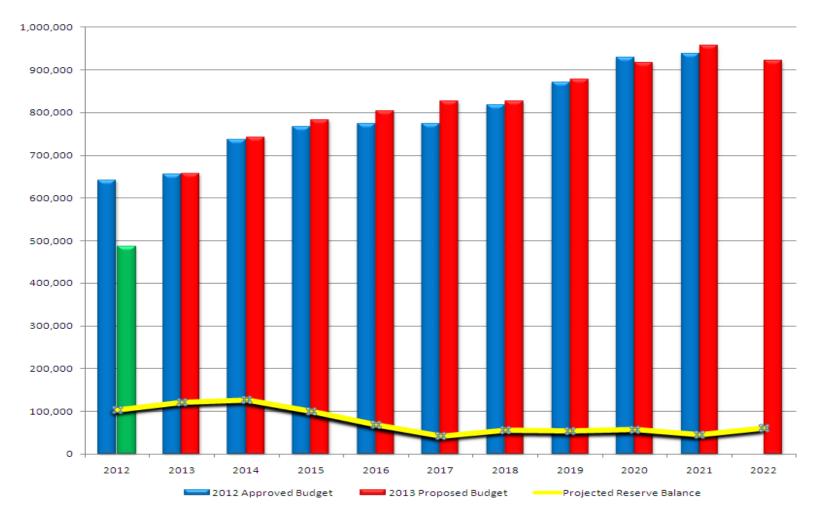
	Project/Program	2013-2022 (\$ millions)	2023-2032 (\$ millions)
Bu	dgeted Pressures		
a)	Highland Creek Wastewater Treatment Plant - Biosolids		
	Handling Cost Increase	\$ 8.6	
b)	Ashbridges Bay Wastewater Treatment Plant - Disinfection Cost		
	Increase	\$66.9	
	Total Budgeted Pressures:	\$75.5	
Un	budgeted Pressures		
a)	Ashbridges Bay Wastewater Treatment Plant Outfall		\$312.8
b)	Wastewater Treatment Plants - Digester Cleaning and Repairs	\$ 62.3	TBD
c)	Wet Weather Flow Master Plan		
	i) Don River & Central Waterfront Project	\$ 39.0	\$681.5
	ii) Basement Flooding Protection Program	\$ 95.0	TBD
	iii) Etobicoke Waterfront Stormwater Control		\$ 88.0
	iv) Waterfront Landforms	\$ 563.2	TBD
d)	Water Treatment and Supply – Standy Power	\$ 9.0	\$ 86.5
e)	Growth related projects		
	i) Waterfront Development - Sanitary Sewer Master		TBD
	Servicing Plan		
	ii) Lawrence Heights	\$ 31.3	\$ 25.7
	iii) Downsview Park	\$ 8.0	
f)	Metrolinx/TTC Transit Project – Sewer & Watermain		
	Infrastructure Upgrades	\$ 62.0	TBD
g)	TRCA Priority Lakefront Erosion Control Projects	\$ 35.0	TBD
	Total Unbudgeted Pressures:	\$385.4	\$1,192.9



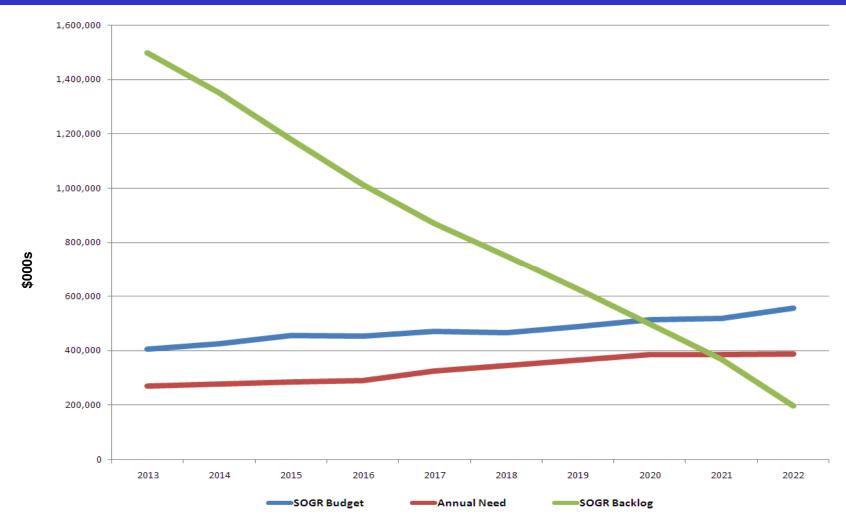




# 10-year Capital Plan Comparison (\$000s)



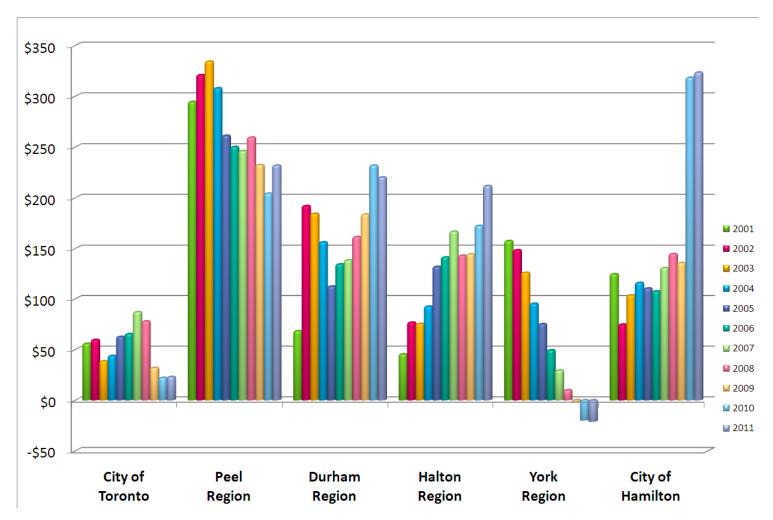
# State of Good Repair Funding & Backlog



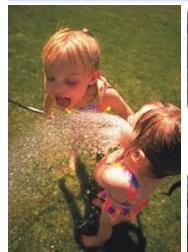
# **Incremental Operating Impact of Capital**

											2013-
Program Costs, Revenues and Net	2013 Rec.	2014	2015	2016	2017	2018	2019	2020	20201	2022	2022
(\$000s)	Budget	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Total
2013 Recommended Capital Budget											
Program Gross Expenditure	5,562.0	2,432.0	247.0	147.0	5,220.0	5,530.0					19,138.0
Program Revenue	(113.0)										(113.0)
Program Costs (Net)	5,675.0	2,432.0	247.0	147.0	5,220.0	5,530.0	-	-	-	-	19,251.0
Approved Positions	2.0		3.0								5.0
Recommended 10-Year Capital Plan											
Program Gross Expenditure			100.0	100.0	100.0		53.0				353.0
Program Revenue											-
Program Costs (Net)	-	-	100.0	100.0	100.0	-	53.0	-	-	-	353.0
Approved Positions			1.0	1.0	1.0						3.0
Total											
Program Gross Expenditure	5,562.0	2,432.0	347.0	247.0	5,320.0	5,530.0	53.0	-	-	-	19,491.0
Program Revenue	(113.0)	-	-	-	-	-	-	-	-	-	(113.0)
Program Cost (Net)	5,675.0	2,432.0	347.0	247.0	5,320.0	5,530.0	53.0	-	-	-	19,604.0
Approved Positions	2.0	-	4.0	1.0	1.0	-	-	-	-	-	8.0

# Water and Wastewater Reserve Balances (per capita comparison)



# **2013 Water Rate**











# **Assumptions for 2013**

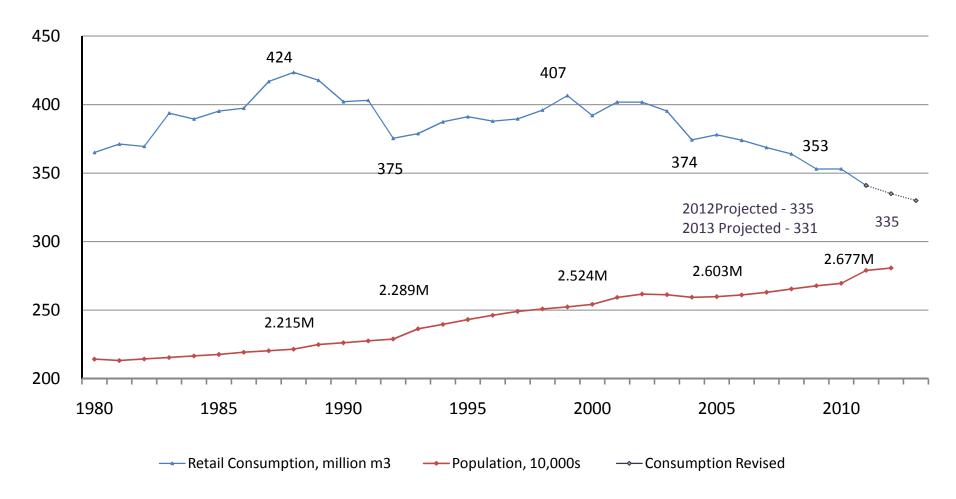
## **Continuous Declining Consumption**

- 2012 Forecast 0.7% below 2011 actual (\$14 million revenue impact)
- 2013-2015 1.5% decrease per year

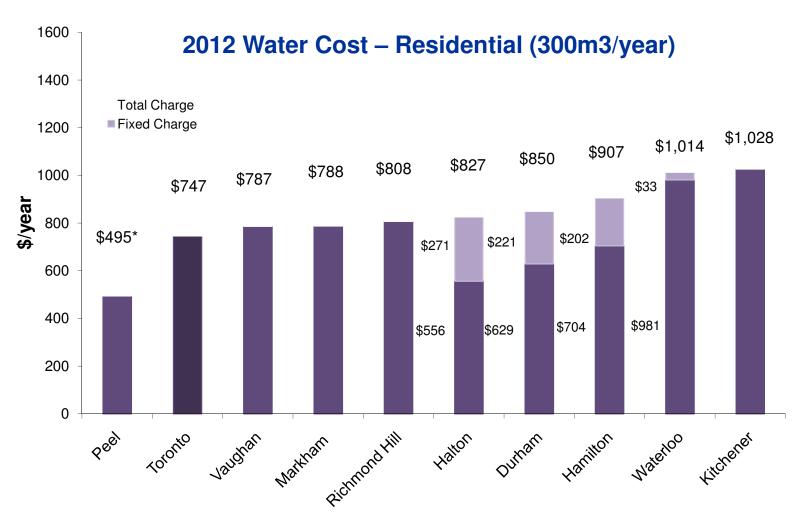
## **Capital Expenditure Rate Forecast**

- 2012: 76%
- 2013 and forward: 85%

# **Population and Water Consumption**



# **How Does Toronto Compare?**



<sup>\*</sup> Note: Peel stormwater funded by property tax

# **How Does Toronto Compare?**

### 2012 Water Cost – Large Industrial (1,000,000 m3/year)



# **2013 Water Rate Increase Impact**

Type of Property	Consumption 2012 Cost		Projected 2013 Cost	2013 Rate Increase Impact		
Residential	300	\$747	\$814	\$67	9.0%	
Industrial	1,000,000	\$1,747,271	\$1,904,525	\$157,254	9.0%	
Commercial	1,000,000	\$2,489,700	\$2,713,700	\$224,000	9.0%	

- Daily cost for all residential water, wastewater and stormwater services only **\$2.23** per day.
- An increase of: 18¢ per household per day.

# **Projected Water Rate Increase**

2013 Projection	2012	2013	2014	2015*	2016	2017	2018	2019*	2020	2021	2022
Block 1 Rate Increase	9%	9%	9%	3.6%	3%	3%	3%	3.6%	3%	3%	3%
Block 2 Rate Increase	9%	9%	9%	3.6%	3%	3%	3%	3.6%	3%	3%	3%
Water Rate Revenue	\$815.8	\$874.3	\$943.4	\$958.4	\$992.5	\$1,021.8	\$1,051.9	\$1,083.0	\$1,121.5	\$1,154.6	\$1,188.7
Revenue Increase	8.1%	7.2%	7.9%	1.6%	3.6%	3.0%	3.0%	2.9%	3.6%	3.0%	3.0%
Reserve Closing Balance	\$103.31	\$121.43	\$127.22	\$100.07	\$68.85	\$42.64	\$56.39	\$54.03	\$57.08	\$45.45	\$60.79
*Year 2015 and 2019 are post-ele	March 1st for 1										





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