# The City of Port Colborne

2019

PROPOSED WATER AND WASTEWATER
BUDGET AND RATES

## Fixed vs Usage Charge

- Water and Wastewater operations incur both fixed and usage (variable) costs. The only true usage cost is related to the purchase of water that flows through a customers meter and the treatment of wastewater which is billed to the customer.
- City Operating Cost 29% allocated to usage rate although are fixed costs
- City Capital/Debt Cost 24% allocated to the fixed charge
- Region Water Purchases 47% 52% are a fixed cost and unbilled water - 48% is actually a true usage cost

## Water Budget Costs

<ul> <li>City Operating</li> </ul>	\$1,504,796	29%
<ul> <li>City Capital/Debt</li> </ul>	\$1,217,630	24%
<ul> <li>Region fixed/unbilled</li> </ul>	\$1,231,740	24%
<ul> <li>Region Usage (billed)</li> </ul>	\$1,143,600	23%
Total Fixed Costs	\$2,449,370	48%
Total Variable Costs	\$2,648,396	52%
Average Resident Usage of	.75 m3 per day	
Annual fixed charge	\$384.65	52%
Annual usage charge	<u>\$358.89</u>	48%
	\$743.54	

## Issues Affecting 2019 Budget

- 2018 water deficit funded \$281,000 budgeted capital not allocated to capital reserves
- 2018 wastewater deficit funded \$435,000 budgeted capital not allocated to capital reserves (\$160,000 Wastewater Reconciliation)
- Increasing annual capital allocation of funds by 2% to 5% - no increase in 2019
- Region's budget increase water 2.77% and wastewater 6.65%
- Increased costs Region increase for water purchases 2.47% and wastewater treatment 4.01% City water operator for 9 months phased in from 2018 plus 2.5% cost of living

## Issues Affecting 2019 Budget

- Actual annual water revenue not meeting projected annual revenue - \$275,000 - water rates too low (water sales declined)
- Wastewater Rate Stabilization Reserve -\$200,000 allocated to 2019 budget
- Wastewater flows are very unpredictable extraneous flows are mainly due to weather and are lost revenue
- Wastewater revenues currently not meeting projected revenue - \$673,000 – rates are too low
- Wastewater meter sales have declined from 1.8m3 to 1.2m3

## Issues Affecting 2019 Budget

- Industrial facilities reducing/eliminating wastewater flows – from 50% to 6%
- Impacts rates to generate revenues which offset extraneous flows cost
- Major industrial customer came off the wastewater system in 2017 - \$600,000 – 2018 effect is \$900,000
- More extensive Storm Sewer Systems may reduce sources of extraneous flows
- New 10 year Water Financial Plan required in 2019

## Mitigation of Changes

- Staff ongoing monitoring of flows and planning infrastructure replacements, meter installations, private service leakage and Region trunk mains review
- Phasing in actual unbilled water and extraneous flows in wastewater
- Phasing in known sales revenue shortfalls
- No increase to capital contributions
- Phased in the addition of one Certified
   Water/Wastewater Operator to operating budget 2018
   (3 months) and 2019 (9 months)
- Applying Wastewater rate stabilization reserve to capital for \$200,000
- Cost of living increase at 2.5% for City portion of operations

## Operating Budget Water and Wastewater

- Total annual increase to an average residential user is \$69.42 or \$5.78 a month 4.49%
- Water fixed and usage increase 3.54%
   Annual increase is \$25.42 or \$2.12 a month
- Wastewater fixed and usage increase 5.33%
   Annual increase is \$44.00 or \$3.66 a month

## Water Operations

#### **Usage Rates**

- Usage rate increase \$1.274 to \$1.311 2.89%
- Water Financial Plan rate for 2019 \$1.348
- Ave annual increase \$10.09 or \$0.84 a month
   Fixed Service Charge
- Capital rate increase \$369.33 to \$384.65 4.15%
- Ave annual increase \$15.33 or \$1.28 a month
   Blended Change
- Water fixed and usage increase 3.54%
   Annual increase is \$25.42 or \$2.12 a month

## Water Operations

- Regional water purchase increase \$58,583 to \$2,375,340 (47% of budget)
- City operating increase \$108,170 (new operator) at \$1,455,196 (29% of budget)
- City capital decrease \$100
- to \$1,217,630 (24% of budget)
- Total Net Increase in Operating/Capital Costs is 3.41% (\$166,653)
- Non billable water loss between 27% & 40%
  - budgeted 36%
- 3 year average water volume purchase 3,080,817m3
- Budgeted fixed costs at 48%
- Budgeted Regional costs fixed at 52%

## Water Rates Comparison for 2019

	Water Financial Plan	Proposed Rates
Usage Cost per m3	1.348	1.311
Annual Usage Cost - 0.75 m3 per day	369.02	358.89
Annual Fixed Charge	<u>345.01</u>	<u>384.65</u>
Total Annual Cost	714.03	743.54

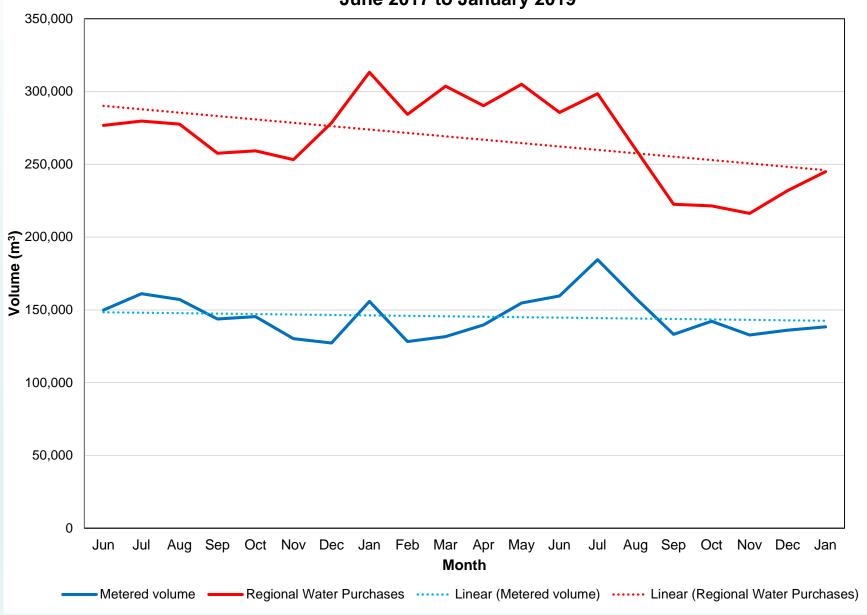
#### Water Rate Calculation

	Total Costs	Consumption Costs	Fixed Costs
Amortization/Capital	497,320		497,320
Rate Stabilization/Capital	285,930		285,930
Contract Services	153,729	153,729	
Salaries and benefits	785,775	785,775	
Regional Water Purchases	2,375,340	1,143,600	1,231,740
Interdepartmental			
Administration	264,060	180,942	83,118
Fleet Charges	61,701	61,701	
Long term debt	70,000		70,000
New Long term debt	364,380	68,791	295,589
General Admin	43,459	43,459	
Materials and supplies			
Utilities and telephone	8,721	8,721	
Repairs and Maintenance	109,738	109,738	
Materials, parts and supplies	49,513	49,513	
Other	10,000	10,000	
Small Tools/Equipment	18,100	18,100	
	5,097,766	2,634,069	2,463,697
Other Revenues	- 49,600	- 49,600	-
	5,048,166	2,584,469	2,463,697
Estimated Annual Water Sold - m3		1,971,723	
Total Customers		.,,/	6,405
Water Usage Rate		1.311	
Annual Water Service Fixed Charge			384.65

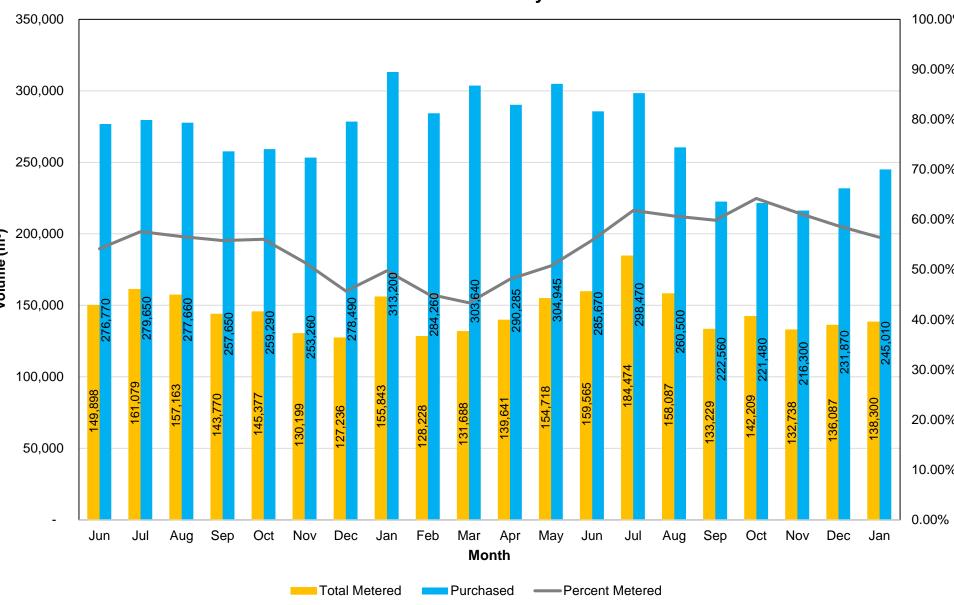
## Water Capital Program

- Current contributions \$1,217,630
- > Rate Stabilization \$285,930
- Capital Projects \$356,851
- Debt \$434,380
- Equipment \$53,101
- Water Meters \$87,368
- Proposed annual increase of \$ NIL
- Annual requirement based on replacement cost is \$2.3 million
- Annual Amortization of capital assets is \$600,000

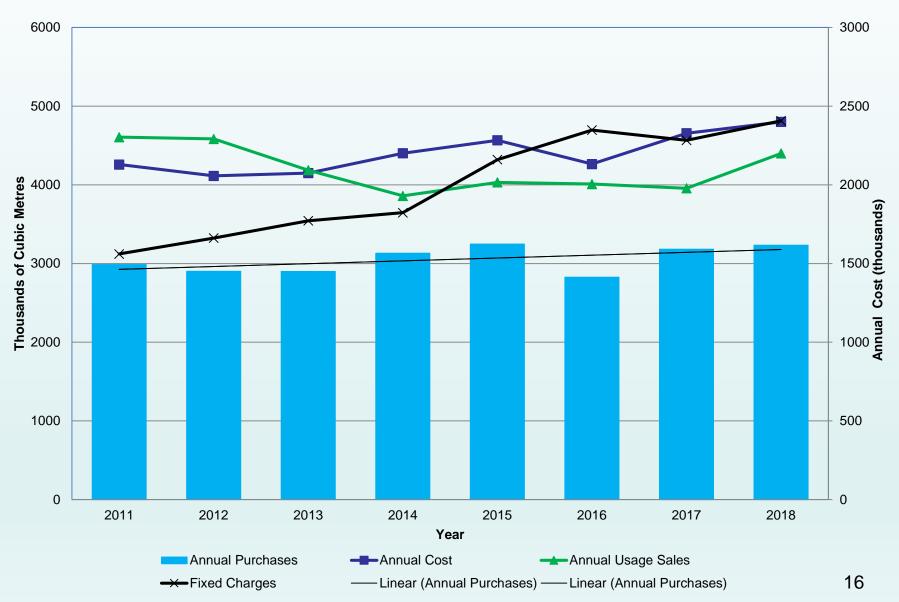
#### Monthly Regional Water Purchases vs. Monthly Metered Consumption June 2017 to January 2019



#### Volume purchased from RMON vs. Volume metered June 2017 to January 2019



### Annual Water Volumes Sales and Regional Costs 2011 - 2018



## Wastewater Operations

#### **Usage Rates**

- Usage rate increase \$1.295 to \$1.336 3.14%
- Ave annual increase \$11.13 or \$0.93 a month
   Fixed Service Charge
- Capital rate increase \$471.98 to \$504.86
- Ave annual increase \$32.88 or \$2.74 a month
   Blended Change
- Wastewater fixed and usage increase 5.33%
   Annual increase is \$44.01 or \$3.67 a month

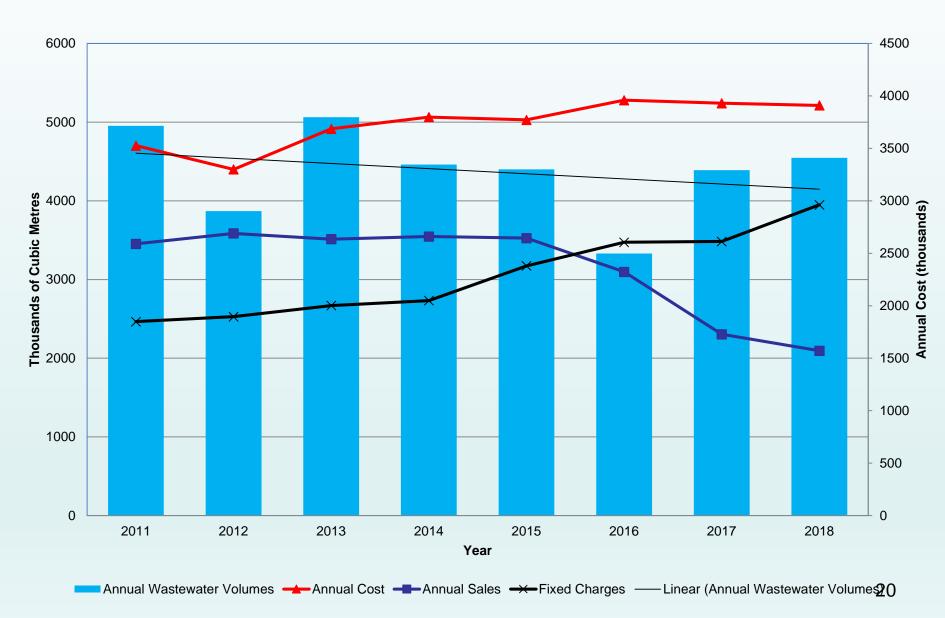
## Wastewater Operations

- Regional fixed cost increase \$167,079 to \$4,076,742 (72% of budget)
- City operating increase \$17,789 to \$863,584 (15% of budget)
- City capital increase \$0 to \$751,930 (13% of budget)
- ➤ Total Net Increase in Operating/Capital Costs is 3.36% (\$184,868)
- Regional 3 year rolling average of flows 3,944,000 m3
- Non billable flows estimated between 45% and 68%
  budgeted 56%
- Budgeted City costs at 28%
- Budgeted Regional costs fixed at 72%

## Wastewater Capital Program

- Current contributions \$751,930
- Rate Stabilization \$206,357
- Capital Projects \$508,853
- Equipment \$36,720
- Proposed annual increase of \$ NIL
- Annual requirement based on replacement cost is \$1.2 million
- Annual Amortization for capital assets is \$400,000

### Annual Wastewater Volumes Sales and Regional Costs 2011 - 2018



#### CITY OF PORT COLBORNE RESERVES AND RESERVE FUNDS

#### December 31, 2018

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Development charges	-	
SCADA Water Study	39,935	
Water Rate Stabilization	4,248	
Water Equipment Replacement	70,109	
Drainage Water Quality	80,420	
Bulk Water Station Replacement	269,692	
Water Meter Replacements	67,515	
Meter Pits	174,361	
Water Capital Projects	214,442	
		920,722
WASTEWATER		920,722
WASTEWATER Development charges	6,581	920,722
	6,581 72,554	920,722
Development charges	·	920,722
Development charges Sewer Rate Stabilization	72,554	920,722
Development charges Sewer Rate Stabilization Sewer Operations-TV Inspections	72,554 160,290	920,722
Development charges Sewer Rate Stabilization Sewer Operations-TV Inspections Sewer Equipment Replacement	72,554 160,290 49,743	920,722
Development charges Sewer Rate Stabilization Sewer Operations-TV Inspections Sewer Equipment Replacement CSO Sewer Program	72,554 160,290 49,743 344,997	920,722

## Proposed Annual 2019 Rates

2018 annual cost	2018 rate	Item	2019 rate	2019 annual cost	Annual Increase	Increase
\$	\$		\$	\$	\$	%
1544.55				1613.97	69.42	4.49
348.74	1.274/m <sup>3</sup>	Water usage rate	1.311/m <sup>3</sup>	358.82	10.09	2.89
369.33	369.33	Water fixed charge	384.65	384.65	15.33	4.15
354.50	1.295/m <sup>3</sup>	Sewer usage rate	1.336/m³	365.64	11.13	3.14
471.98	471.98	Sewer fixed charge	504.86	504.86	32.88	6.97

## Proposed Quarterly 2019 Rates

2018 cost per quarter	2018 rate	Item	2019 rate	2019 cost per quarter	Quarterly Increase	Increase
\$	\$		\$	\$	\$	%
386.14				403.49	17.35	4.49
87.18	1.274/m³	Water usage rate	1.311/m <sup>3</sup>	89.71	2.53	2.89
92.33	369.33	Water fixed charge	384.65	96.16	3.83	4.15
88.63	1.295/m <sup>3</sup>	Sewer usage rate	1.336/m <sup>3</sup>	91.41	2.78	3.14
118.00	471.98	Sewer fixed charge	504.86	126.21	8.21	6.97

## Proposed Monthly 2019 Rates

2018 cost per month	2018 rate	Item	2019 rate	2019 cost per month	Monthly Increase	Increase
\$	\$		\$	\$	\$	%
128.71				134.50	5.79	4.49
29.06	1.274/m <sup>3</sup>	Water usage rate	1.311/m <sup>3</sup>	29.90	0.84	2.89
30.78	369.33	Water fixed charge	384.65	32.05	1.28	4.15
29.54	1.295/m <sup>3</sup>	Sewer usage rate	1.336/m <sup>3</sup>	30.47	0.93	3.14
39.33	471.98	Sewer fixed charge	504.86	42.07	2.74	6.97

		Original Proposed Budget		Proposed Budget			
Average User	.75 Cubic Meter Per Day	Add Oper for 9	rator Cost mths	Reduced Operator Cost for Vacancy			
Annual Chang	е	\$ 69.42	4.49%	\$ 61.54	3.98%		
Water Usage Ra	ate	\$ 10.09	2.89%	\$ 4.68	1.34%		
Water Service F	Fixed Charge	\$ 15.33	4.15%	\$ 15.33	4.15%		
Sewer Usage R	ate	\$ 11.13	3.14%	\$ 8.65	2.44%		
Sewer Service F	Fixed Charge	\$ 32.88	6.97%	\$ 32.88	6.97%		
						2018	
						Annual Cost	Rate
Annual Cost			\$1,613.97		\$1,606.09	\$1,544.55	
Water Usage Ra	ate	\$1.311	\$358.82	\$1.291	\$353.42	\$348.74	\$1.274
Water Service F	Fixed Charge	\$384.65	\$384.65	\$384.65	\$384.65	\$369.33	\$369.33
Sewer Usage R	ate	\$1.336	\$365.64	\$1.327	\$363.16	\$354.50	\$1.295
Sewer Service F	Fixed Charge	\$504.86	\$504.86	\$504.86	\$504.86	\$471.98	\$471.98

## Proposed Quarterly 2019 Rates

2018 cost per quarter	2018 rate	Item	2019 rate	2019 cost per quarter	Quarterly Increase	Increase
\$	\$		\$	\$	\$	%
386.14				401.52	15.38	3.98
	1.274/m <sup>3</sup>	Water usage	1.291/m <sup>3</sup>			
87.18	1.274/111	rate	1.291/111	88.35	1.17	1.34
92.33	369.33	Water fixed charge	384.65	96.16	3.83	4.15
	4.005/3	Sewer	4.007/3			0.44
88.63	1.295/m <sup>3</sup>	usage rate	1.327/m <sup>3</sup>	90.79	2.16	2.44
118.00	471.98	Sewer fixed charge	504.86	126.22	8.22	6.97