

2019 Proposed Water and Wastewater Rates

SCHEDULE A

total fixed water costs at 48.8% includes Regional costs fixed at 51.9%

2018		2019		Annual Increase	Total %	
Annual Cost	Rate	Rate	Annual cost			
Average User .75 Cubic Meter Per Day						
\$1,544.55			\$1,613.97	\$69.42	4.49%	
\$348.74	\$1.274	WATER USAGE RATE	\$1.311	\$358.82	\$10.09	2.89%
\$369.33	\$369.33	WATER SERVICE FIXED CHARGE	\$384.65	\$384.65	\$15.33	4.15%
\$354.50	\$1.295	SEWER USAGE RATE	\$1.336	\$365.64	\$11.13	3.14%
\$471.98	\$471.98	SEWER SERVICE FIXED CHARGE	\$504.86	\$504.86	\$32.88	6.97%
High Usage 1.2 Cubic Meter Per Day						
\$1,966.49			\$2,048.64	\$82.15	4.18%	
\$557.98	\$1.274	WATER USAGE RATE	\$1.311	\$574.12	\$16.14	
\$369.33	\$369.33	WATER SERVICE FIXED CHARGE	\$384.65	\$384.65	\$15.33	
\$567.21	\$1.295	SEWER USAGE RATE	\$1.336	\$585.02	\$17.81	
\$471.98	\$471.98	SEWER SERVICE FIXED CHARGE	\$504.86	\$504.86	\$32.88	
Low Usage 0.58 Cubic Meter Per day						
\$1,385.15			\$1,449.76	\$64.61	4.66%	
\$269.69	\$1.274	WATER USAGE RATE	\$1.311	\$277.49	\$7.80	
\$369.33	\$369.33	WATER SERVICE FIXED CHARGE	\$384.65	\$384.65	\$15.33	
\$274.15	\$1.295	SEWER USAGE RATE	\$1.336	\$282.76	\$8.61	
\$471.98	\$471.98	SEWER SERVICE FIXED CHARGE	\$504.86	\$504.86	\$32.88	
Single User .25 Cubic Meter Per day						
\$1,075.72			\$1,131.00	\$55.28	5.14%	
\$116.25	\$1.274	WATER USAGE RATE	\$1.311	\$119.61	\$3.36	
\$369.33	\$369.33	WATER SERVICE FIXED CHARGE	\$384.65	\$384.65	\$15.33	
\$118.17	\$1.295	SEWER USAGE RATE	\$1.336	\$121.88	\$3.71	
\$471.98	\$471.98	SEWER SERVICE FIXED CHARGE	\$504.86	\$504.86	\$32.88	
One Cubic Meter Per day						
\$1,778.96			\$1,855.46	\$76.49	4.30%	
\$464.98	\$1.274	WATER USAGE RATE	\$1.311	\$478.43	\$13.45	
\$369.33	\$369.33	WATER SERVICE FIXED CHARGE	\$384.65	\$384.65	\$15.33	
\$472.67	\$1.295	SEWER USAGE RATE	\$1.336	\$487.51	\$14.84	
\$471.98	\$471.98	SEWER SERVICE FIXED CHARGE	\$504.86	\$504.86	\$32.88	

budget with 9 mths new operator, adjustments & expense reductions

SCHEDULE B

**City of Port Colborne
Analysis of Water System Costs**

	Budgeted		Budgeted		Budgeted		Financial Plan Approved By Council in 2010							
	2017		2018		2019		2016		2017		2018		2019	
Budgeted Expenditures														
City Operating costs	1,422,963	29.1%	1,394,626	28.3%	1,504,796	29.5%	1,272,061	28.1%	1,310,221	28.2%	1,349,530	28.3%	1,390,015	28.9%
Regional Water Purchases	2,265,352	46.4%	2,316,757	47.0%	2,375,340	46.6%	2,505,485	55.4%	2,580,649	55.5%	2,658,069	55.8%	2,737,811	57.0%
Capital Contribution-deficit	285,226	5.8%	285,930	5.8%	285,930	5.6%								
Capital Contribution	821,380	16.8%	497,320	10.1%	497,320	9.8%		0.0%	210,209	4.5%	214,414	4.5%	218,702	4.6%
Amortization		0.0%		0.0%		0.0%	374,800	8.3%	379,465	8.2%	377,295	7.9%	377,758	7.9%
Water Study	-	0.0%	-	0.0%	-	0.0%	206,000	4.6%		0.0%		0.0%		0.0%
Debt Reserve					70,000	1%								
Long Term Debt Payments	88,963	1.8%	434,480	8.8%	364,380	7.1%	166,255	3.7%	166,635	3.6%	165,788	3.5%	77,672	1.6%
Total Costs	4,883,884	100%	4,929,113	100%	5,097,766	100%	4,524,601	100%	4,647,179	100%	4,765,096	100%	4,801,958	100%
Other Revenue	-114,275		-47,600		-49,600		-72,183		-72,905		-73,634		-74,371	
Net Costs	4,769,609		4,881,513		5,048,166		4,452,418		4,574,274		4,691,462		4,727,587	
Percentage Increase in Net Costs	1.96%		2.35%		3.41%		2.57%		2.74%		2.56%		0.77%	
Net Costs allocated to Fixed Rate	47.20%		48.50%		48.80%		45.67%		46.13%		46.45%		46.57%	
Net Costs allocated to Usage Rate	52.80%		51.50%		51.20%		54.33%		53.87%		53.55%		53.43%	
Fixed Regional Water Purchases	49.60%		51.70%		51.90%		51.34%		52.45%		53.48%		55.80%	
Water Consumptions														
Estimated Water Purchases m3	3,068,803		3,085,923		3,080,817		2,640,000		2,640,000		2,640,000		2,640,000	
Unbilled UFW m3	920,641	30%	1,110,932	36%	1,109,094	36%	765,600	29%	765,600	29%	765,600	29%	765,600	
Estimated Water Sold m3	2,148,162		1,974,991		1,971,723		1,874,400		1,874,400		1,874,400		1,874,400	
	-0.79%		-8.06%		-0.17%		0.00%		0.00%		0.00%		0.00%	

SCHEDULE C

City of Port Colborne
Anticipated Future Water Rates

	Actual	Actual	Actual	Actual	Actual	Actual	Proposed	Financial Plan Approved By Council in 2010								
	2013	2014	2015	2016	2017	2018	2019	2011	2012	2013	2014	2015	2016	2017	2018	2019
Cost per cu.m	\$1.071	\$1.093	\$1.123	\$1.147	\$1.173	\$1.274	\$1.311	\$1.148	\$1.181	\$1.216	\$1.242	\$1.268	\$1.291	\$1.315	\$1.340	\$1.348
		2.05%	2.74%	2.14%	2.27%	8.61%	2.90%		2.87%	2.96%	2.14%	2.09%	1.81%	1.86%	1.90%	0.60%
Annual fixed cost	\$276.09	\$282.82	\$334.14	\$342.58	\$351.12	\$369.33	\$384.65	\$247.42	\$264.10	\$284.31	\$296.33	\$307.82	\$318.62	\$330.61	\$341.43	\$345.01
		2.44%	18.15%	2.53%	2.49%	5.19%	4.15%		6.74%	7.65%	4.23%	3.88%	3.51%	3.76%	3.27%	1.05%
Annual Cost .75 m3 per day	\$293.19	\$299.21	\$307.42	\$313.99	\$321.11	\$348.76	\$358.89	\$314.27	\$323.30	\$332.88	\$340.00	\$347.12	\$353.41	\$359.98	\$366.83	\$369.02
Total Annual cost	\$569.28	\$582.03	\$641.56	\$656.57	\$672.23	\$718.09	\$743.54	\$561.69	\$587.40	\$617.19	\$636.33	\$654.94	\$672.03	\$690.59	\$708.26	\$714.03
Percentage Increase		2.24%	10.23%	2.34%	2.38%	6.82%	3.54%		4.58%	5.07%	3.10%	2.92%	2.61%	2.76%	2.56%	0.81%

City of Port Colborne

SCHEDULE D

Water System Budget Review

3 year ave flows 3 year ave flows

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	48.5% fixed 2018 Budget	48.8% fixed 2019 Budget
water usage rate	\$1.071	\$1.093	\$1.123	\$1.147	\$1.173	\$1.274	\$1.274	\$1.311
water service fixed charge (Annual)	\$276.09	\$282.82	\$334.14	\$342.58	\$351.12	\$369.33	\$369.33	\$384.65
Water Purchase Volumes (m3)	2,899,770	3,131,010	3,248,500	2,826,900	3,182,370	3,233,180	3,085,923	3,080,817
Fees	\$775	\$800	\$475	\$555	\$550	\$600	\$600	\$600
Other	\$3,789	\$1,386	\$19,468	\$6,659	\$12,163	\$2,792	\$6,000	\$6,000
Capital Reserve	\$145,864	\$135,717	\$33,203	\$14,530	\$29,123	\$0		
Operating Reserve		\$149,620	\$0	\$0	\$0	\$0		
Grants		\$72,900	\$0	\$0	\$0	\$0		
Water Revenue - RATE	\$2,093,338	\$1,930,018	\$2,016,172	\$2,005,155	\$1,978,271	\$2,199,721	\$2,515,978	\$2,584,470
Water Revenue - FIXED	\$1,771,660	\$1,822,626	\$2,159,927	\$2,347,970	\$2,282,776	\$2,407,161	\$2,365,535	\$2,463,696
Water Revenue - OTHER	\$50,089	\$53,628	\$52,529	\$53,550	\$35,055	\$46,782	\$41,000	\$43,000
TOTAL REVENUE	\$4,065,515	\$4,166,695	\$4,281,774	\$4,428,419	\$4,337,938	\$4,657,056	\$4,929,113	\$5,097,766
Purchase Water - Region	\$1,557,176	\$1,681,352	\$1,744,445	\$1,566,103	\$1,763,033	\$1,829,980	\$1,746,633	\$1,786,874
Fixed Water Purchases - Region	\$517,719	\$520,087	\$538,656	\$565,427	\$565,235	\$570,124	\$570,124	\$588,466
Vehicle operation	\$58,856	\$66,544	\$55,546	\$54,325	\$72,259	\$86,959	\$59,634	\$62,517
Mains Maintenance	\$180,125	\$150,101	\$142,285	\$154,296	\$131,768	\$174,552	\$213,843	\$178,917
Fire Hydrants	\$42,486	\$58,651	\$71,297	\$57,634	\$51,129	\$85,100	\$76,535	\$76,565
Meters	\$120,575	\$138,214	\$100,230	\$81,863	\$106,383	\$108,502	\$92,271	\$93,045
Services (including thaws)	\$74,646	\$203,178	\$481,330	\$123,648	\$82,014	\$165,571	\$129,189	\$131,673
Leak	\$50,838	\$34,570	\$20,487	\$28,996	\$21,997	\$20,270	\$46,537	\$46,705
Leak Repairs	\$118,495	\$96,947	\$98,320	\$73,827	\$41,953	\$72,531	\$96,276	\$96,674
Billing and Collection	\$136,995	\$142,729	\$153,498	\$199,303	\$149,523	\$157,122	\$153,807	\$156,827
Locates	\$41,955	\$50,325	\$54,146	\$51,177	\$51,489	\$65,936	\$7,702	\$10,368
Admin	\$367,256	\$358,417	\$472,373	\$400,317	\$446,052	\$372,882	\$497,297	\$629,765
Capital study	\$35,161	\$22,098	\$0	\$0	\$0	\$0	\$0	\$0
Capital Debentures (debt reserve)	\$87,734	\$89,146	\$88,986	\$86,907	\$88,964	\$88,116	\$88,116	\$70,000
Capital - tsf to Reserve (deficit)	\$20,000		\$279,633	\$279,633	\$0	\$4,248	\$285,930	\$285,930
Capital Projects/Programs	\$101,847	\$186,519	\$93,203	\$71,000	\$0	\$72,368	\$72,368	\$72,368
Capital Construction/Debentures	\$542,000	\$542,000	\$542,000	\$671,324	\$755,641	\$703,215	\$703,215	\$721,231
Capital Vehicle Replacement	\$51,000	\$51,000	\$51,000	\$52,000	\$0	\$53,000	\$53,101	\$53,101
Capital Water Meter Replacement Prog		\$40,000	\$40,000	\$15,000	\$0	\$15,000	\$15,000	\$15,000
Water recoverable	\$7,830	\$6,819	\$8,828	\$4,951	\$2,254	\$4,873	\$6,673	\$6,765
Elm Street	\$3,405	\$3,166	\$2,965	\$4,459	\$2,626	\$2,209	\$7,531	\$7,571
Elizabeth St	\$14,391	\$4,465	\$5,003	\$5,309	\$5,618	\$4,498	\$7,331	\$7,404
TOTAL EXPENDITURE	\$4,130,490	\$4,446,328	\$5,044,231	\$4,547,499	\$4,337,938	\$4,657,056	\$4,929,113	\$5,097,766
Surplus (Deficit)	(64,975)	(279,633)	(762,457)	(119,080)	-	-	\$0	\$0
City Operations	\$1,163,200	\$1,148,692	\$1,593,836	\$1,179,341	\$1,088,174	\$1,270,831	\$1,347,026	\$1,455,196
City Capital	\$691,878	\$682,146	\$1,061,619	\$1,161,334	\$844,605	\$935,947	\$1,217,730	\$1,217,630
Regional costs	\$2,074,895	\$2,201,439	\$2,283,101	\$2,131,530	\$2,328,268	\$2,400,104	\$2,316,757	\$2,375,340
Total costs net of other revenue	\$3,929,973	\$4,032,277	\$4,938,556	\$4,472,205	\$4,261,047	\$4,606,882	\$4,881,513	\$5,048,166
Region Share of costs	52.80%	54.60%	46.23%	47.66%	54.64%	52.10%	47.46%	47.05%
City Share of costs	47.20%	45.40%	53.77%	52.34%	45.36%	47.90%	52.54%	52.95%

SCHEDULE E

**City of Port Colborne
Water Rate Calculations
2019**

	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	
Debt Reserve	70,000		70,000
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

SCHEDULE F

**City of Port Colborne
Wastewater System Budget
Review**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2018 Budget	2019 Budget
Fees	\$4,628	\$10,373	\$2,735	\$534	\$1,335	\$6,510	\$2,500	\$4,000
Sewer Revenue - RATE	\$2,635,210	\$2,660,198	\$2,645,041	\$2,323,346	\$1,727,933	\$1,571,404	\$2,210,299	\$2,286,400
Sewer Revenue - FIXED	\$2,002,305	\$2,049,590	\$2,380,452	\$2,605,353	\$2,612,682	\$2,962,497	\$2,997,089	\$3,205,856
Rate Stabilization Reserve						\$308,248	\$300,000	\$200,000
Operating reserve		\$67,151	\$0	\$0	\$0	\$0		
Reconciliation Reserve	\$384,000							
Leachate Credits						\$94,045		
Sewer Revenue - OTHER	\$9,511	\$10,440	\$7,450	\$5,774	\$10,045	\$17,179	\$8,000	\$10,000
TOTAL REVENUE	\$5,035,654	\$4,797,752	\$5,035,678	\$4,935,007	\$4,351,995	\$4,959,883	\$5,517,888	\$5,706,256
Wastewater treated - Region	\$3,870,558	\$3,584,169	\$3,771,549	\$3,959,718	\$3,929,621	\$3,909,663	\$3,909,663	\$4,076,742
Reconciliation cost - Region	\$199,000	\$214,000	\$456,000	-\$544,000	-\$181,000	\$160,000		
Johnson Pumping station	\$21,744	\$33,573	\$17,603	\$16,697	\$24,148	\$19,549	\$37,837	\$32,958
Sugarloaf Pumping station	\$7,823	\$18,884	\$1,894	\$3,681	\$10,527	\$5,221	\$10,704	\$10,842
Scholfield Pumping station		\$17,943	\$27,562	\$14,941	\$21,441	\$31,374	\$36,300	\$37,125
Vehicle operations	\$13,979	\$12,716	\$6,696	\$19,707	\$18,628	\$11,999	\$20,490	\$20,231
sewer mains	\$33,500	\$21,057	\$11,252	\$16,664	\$5,940	\$31,902	\$27,118	\$27,186
laterals	\$84,563	\$72,665	\$58,434	\$56,500	\$56,023	\$115,802	\$100,175	\$101,673
manholes	\$33,707	\$31,081	\$34,999	\$83,999	\$9,161	\$7,316	\$74,251	\$75,484
Locates	\$28,059	\$38,692	\$37,555	\$39,326	\$37,018	\$46,666	\$68,646	\$39,193
general operation	\$251,277	\$282,525	\$303,702	\$287,832	\$251,093	\$221,190	\$348,018	\$398,859
recoverable works	\$2,130	\$3,474	\$1,532	\$1,578	\$1,595	\$1,627	\$3,129	\$3,170
extraneous flows	\$154,451	\$159,661	\$113,095	\$123,369	\$107,992	\$72,421	\$129,627	\$130,863
Capital - tsf to Reserve (deficit)			\$202,189	\$202,189	\$59,808	\$0	\$206,357	\$206,357
Capital Main Construction	\$270,000	\$270,000	\$270,000	\$283,000	\$0	\$288,433	\$288,433	\$288,433
Capital Projects-equip	\$34,500	\$34,500	\$34,500	\$36,000	\$0	\$36,720	\$36,720	\$36,720
Capital Projects	\$205,000	\$205,000	\$205,000	\$215,000	\$0	\$0	\$220,420	\$220,420
Capital Debentures	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL EXPENDITURE	\$5,210,291	\$4,999,940	\$5,553,562	\$4,816,201	\$4,351,995	\$4,959,883	\$5,517,888	\$5,706,256
Surplus (Deficit)	-\$174,637	-202,188	-517,884	118,806	0	0	\$0	\$0
City Operations	\$617,094	\$671,458	\$604,139	\$657,986	\$532,186	\$541,378	\$845,795	\$863,584
City Capital	\$509,500	\$509,500	\$711,689	\$736,189	\$59,808	\$325,153	\$751,930	\$751,930
Regional costs	\$4,069,558	\$3,798,169	\$4,227,549	\$3,415,718	\$3,748,621	\$4,069,663	\$3,909,663	\$4,076,742
Total costs net of other revenue	\$5,196,152	\$4,979,127	\$5,543,377	\$4,809,893	\$4,340,615	\$4,936,194	\$5,507,388	\$5,692,256
Region Share of costs	78.32%	76.28%	76.26%	71.01%	86.36%	82.45%	70.99%	71.62%
City Share of costs	21.68%	23.72%	23.74%	28.99%	13.64%	17.55%	29.01%	28.38%

CITY OF PORT COLBORNE
RESERVES AND RESERVE FUNDS
December 31, 2018

SCHEDULE G

WATER

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	
	<hr/>	
		<u><u>920,722</u></u>

WASTEWATER

Development charges	6,581	
Sewer Rate Stabilization	72,554	
Sewer Operations-TV Inspections	160,290	
Sewer Equipment Replacement	49,743	
CSO Sewer Program	344,997	
Sewer Capital Projects	284,210	
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		<u><u>918,375</u></u>