

Council Presentation

Introduction

Background



- Watson & Associates Economists Ltd. (Watson) has been retained to by the Town of Cobourg (Town) and Lakefront Utility Services Inc. (LUSI) to undertake a Water and Wastewater Rate Study
- A Water Financial Plan, meeting the requirements of O.Reg. 453/07 as one of the requirements of the Town's water licence renewal application (due in February 2021), has also been prepared based on the findings of the Rate Study

Introduction

Rate Study Work Plan/Objectives

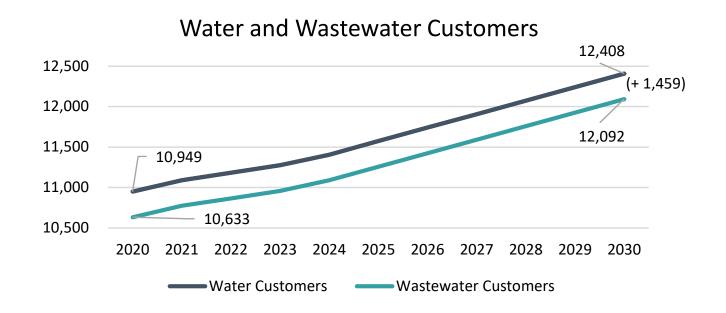


- Objectives of the Rate Study are to understand the long-term operating and capital costs of providing water and wastewater services and to develop a sustainable funding plan and rate recommendations, including:
 - Forecast of water and wastewater service demands;
 - Capital needs assessment and funding plan;
 - Operating costs assessment and revenue analysis; and
 - Rate calculations and forecast
- Water Rate Study and Water Rate Recommendations have been approved by the Lakefront Utilities Services Board (December 9, 2020)

Water and Wastewater Service Demands



- Forecast demands based on:
 - Residential –Town's 2016 D.C. Background Study (132 connections per year) and 124 m³ average annual consumption per connection
 - Non-Residential —historical growth (average of 8 connections per year) and 406 m³ average annual consumption per connection
 - Approximately 1% annual increase in total water consumption



Capital Needs Forecast (2020-2030) Uninflated (2020\$)



- Capital needs forecast prepared based on:
 - 2020 Capital Budget and forecast, as updated by staff; and
 - Draft 2020 Drinking Water Master Plan
- \$168.9 million gross capital costs (\$15.3 million annually)

Capital Needs	Water	Wastewater	Total		
2020-2030					
Growth-Related (2020-2030)	23,233,454	28,537,263	51,770,717		
Non-Growth Related (2020-2030)	43,317,128	46,146,144	89,463,272		
Total	66,550,583	74,683,407	168,895,500		
Average Annual Capital Needs					
Non-Growth Related	3,937,921	4,195,104	8,133,025		
Lifecycle Costs ¹	6,255,549	4,195,104	10,450,653		

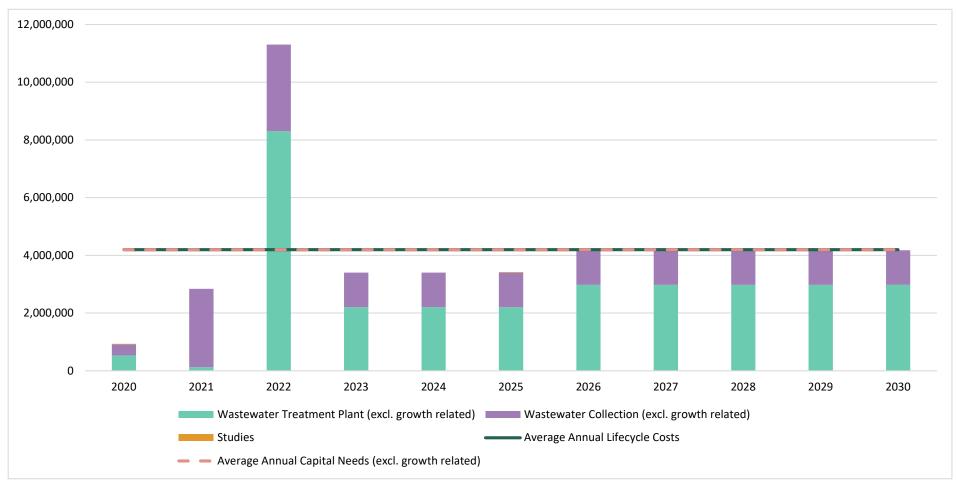
Water Capital Needs Forecast (2020-2030) Uninflated (2020\$)





Wastewater Capital Needs Forecast (2020-2030) Uninflated (2020\$)

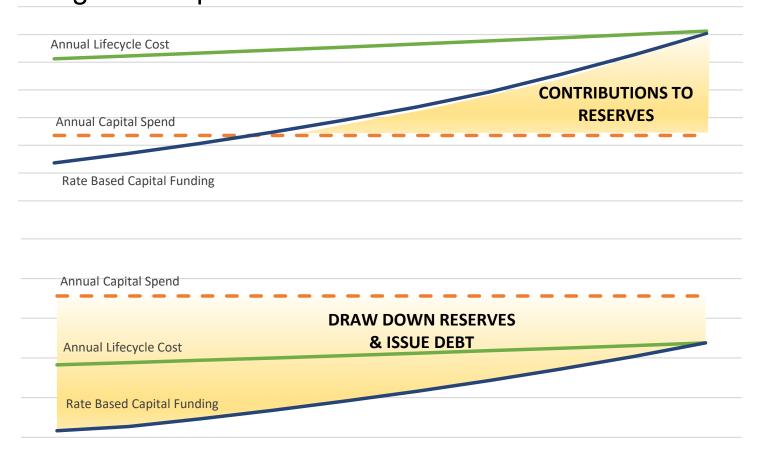




Capital Funding Approach



 Billing revenue increased over forecast to fund operating costs and long-term capital needs



Inflated \$

- Capital needs inflated by 3% annually
- Capital needs to be funded through transfers from reserves, debt, and D.C.s (or Developer funding agreements)

Capital Needs	Water	Wastewater	Total		
Growth-Related	28,233,296	36,182,700	64,415,996		
Non-Growth Related	50,682,204	53,797,300	104,479,504		
Total	78,915,500	89,980,000	168,895,500		

Capital Funding	Water	Wastewater	Total
D.C. Reserve Fund/Developer Funding Agreements	28,233,296	36,182,700	64,415,996
Non-Growth Related Debenture Requirements	7,365,524	22,563,196	29,928,720
Growth Related Debenture Requirements	-	-	-
Reserves	43,316,680	31,234,104	74,550,784
Total	78,915,500	89,980,000	168,895,500



Debt Financing Impacts

- Anticipated debt financing assessed against Provincial borrowing limits (i.e. annual debt financing costs not to exceed 25% of ownsource revenues)
 - Current debt capacity utilization of 3.6% (2019 FIR)
 - Capital funding plan includes \$29.9 million incremental debt
 - Debt capacity utilization increases to 7.1% by 2030
 - Assessment does not consider incremental taxation own-source revenues or debt



Debt Financing Impacts (Cont'd)

- Funding Plan assumes Town will enter into agreements with developers to provide \$57.9 million in up-front financing for D.C.eligible infrastructure over the 10-year forecast period
- If the Town was required to finance costs of all D.C. eligible water and wastewater infrastructure, up to \$57.9 million in additional debt would be required over the 10-year period
 - Additional growth-related debt would increase debt capacity utilization to 13.7%

D.C. Funding Impacts

- 2016 D.C. Background Study identifies \$ 55.7million in D.C. eligible costs (2020\$) for buildout of urban serviced area (\$23.3 million water and \$32.4 million wastewater)
 - \$44.2 million growth related costs identified in draft Drinking Water Master Plan (a portion of which will a local service cost and direct developer responsibility)
 - Anticipated Town will update costs growth-related capital requirements for wastewater services
- Updated capital servicing plan and cost estimates will be reflected in an updated D.C. Background Study so that D.C.s are reflective of the anticipated costs of servicing

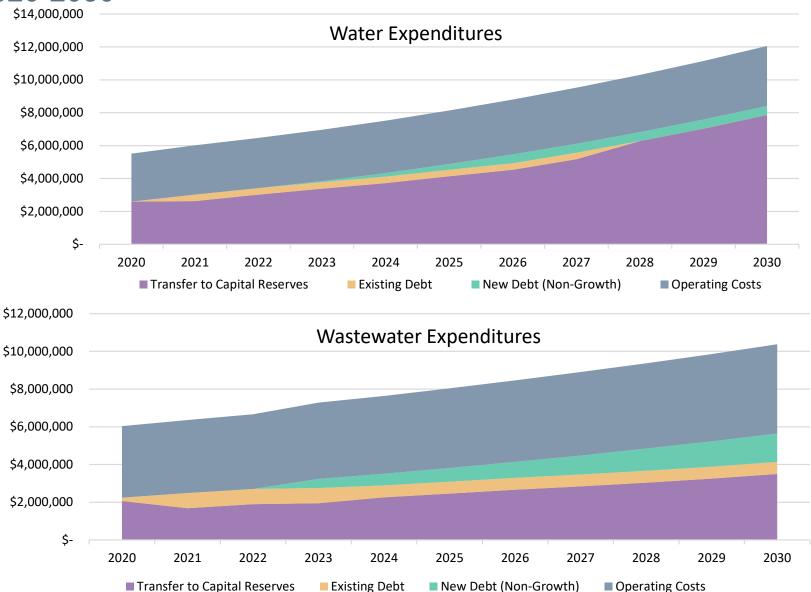
Operating Budget Forecast 2020-2030



- Operating budget forecast based on three components
 - Fixed operating expenditures plus inflation 2% per year
 - Variable operating expenditures (forecast based on increased consumption plus inflation) – Approx. 3% increase per year
 - Capital-related expenditures (based on capital funding plan)

Operating Budget Forecast

2020-2030



Rate Forecasts

Alternatives Considered



- Alternative rate forecasts considered to meet forecast expenditures
- Alternative 1 No Additional Debt
 - Required rates to provide funding for capital needs without addition debt financing would increase average customer bills by approximately 90% over the 2021 to 2022 period
- Alternative 2 Monthly Base Charge increases only
 - Increase base charges only to reflect fixed capital costs of providing services and improving revenue stability.
 - Customers with lower annual consumption would see greater relative increases to their annual bill. e.g.:
 - Annual bill for a small volume residential customer (90 m³/year) would increase by 40% more than the annual bill for a large volume residential customer (175 m³/year), over the 2021-2030 period

Rate Forecast

Recommended Rate Forecast



- In recognition of the bill impacts by customer type for the alternative scenarios considered, it is proposed that:
 - The current rate structure is maintained (i.e. monthly base charges and increasing block consumptive rates); and
 - Rate increases are applied uniformly to base and consumptive charges
- Detailed rate forecasts provided in Chapter 6 of the Rate Study
- Average annual residential water and wastewater bill to increase by 5.9% per year
 - Average annual water and wastewater bills within the Town have increased by approximately 5.3% over the 2016-2020 period

Rate Forecast and Customer Bill Impacts



Water Rate Summary

Description	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Monthly Base Rate	\$13.75	\$14.74	\$15.79	\$16.93	\$18.14	\$19.45	\$20.84	\$22.34	\$23.94	\$25.66	\$27.50
Annual Base Rate Bill	\$165	\$177	\$190	\$203	\$218	\$233	\$250	\$268	\$287	\$308	\$330
Block 1 Rate	\$1.37	\$1.47	\$1.57	\$1.69	\$1.81	\$1.94	\$2.08	\$2.23	\$2.39	\$2.56	\$2.74
Annual Volume Bill ¹	\$189	\$203	\$217	\$233	\$249	\$267	\$287	\$307	\$329	\$353	\$378
Total Annual Bill	\$354	\$379	\$407	\$436	\$467	\$501	\$537	\$575	\$616	\$661	\$708
% Increase - Total Annual Bill		7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%	7.2%
\$ Increase - Total Annual Bill		\$25	\$27	\$29	\$31	\$34	\$36	\$39	\$41	\$44	\$47

Wastewater Rate Summary

Description	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Monthly Base Rate	\$15.01	\$15.70	\$16.41	\$17.16	\$17.95	\$18.77	\$19.63	\$20.53	\$21.46	\$22.45	\$23.47
Annual Base Rate Bill	\$180	\$188	\$197	\$206	\$215	\$225	\$236	\$246	\$258	\$269	\$282
Block 1 Rate	\$1.54	\$1.61	\$1.68	\$1.76	\$1.84	\$1.93	\$2.01	\$2.11	\$2.20	\$2.30	\$2.41
Annual Volume Bill ¹	\$213	\$222	\$232	\$243	\$254	\$266	\$278	\$291	\$304	\$318	\$332
Total Annual Bill	\$393	\$411	\$429	\$449	\$470	\$491	\$513	\$537	\$561	\$587	\$614
% Increase - Total Annual Bill		4.6%	4.6%	4.6%	4.6%	4.6%	4.6%	4.6%	4.6%	4.6%	4.6%
\$ Increase - Total Annual Bill		\$18	\$19	\$20	\$21	\$21	\$22	\$23	\$25	\$26	\$27

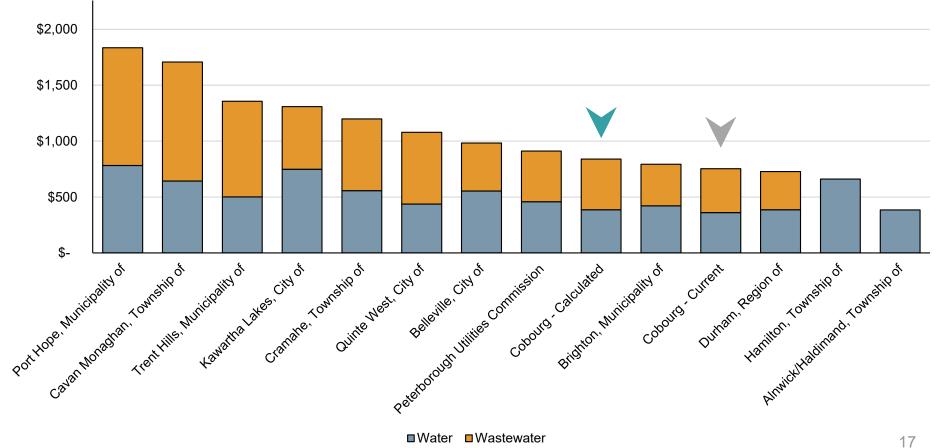
Water and Wastewater Rate Summary

Description	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Annual Bill Water and											
Wastewater Bill	\$747	\$790	\$836	\$885	\$937	\$992	\$1,050	\$1,112	\$1,178	\$1,248	\$1,322
% Increase - Total Annual Bill		5.8%	5.8%	5.8%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%	6.0%
\$ Increase - Total Annual Bill		\$43	\$46	\$49	\$52	\$55	\$58	\$62	\$66	\$70	10\$74

Municipal Comparison Residential Water and Wastewater Bill



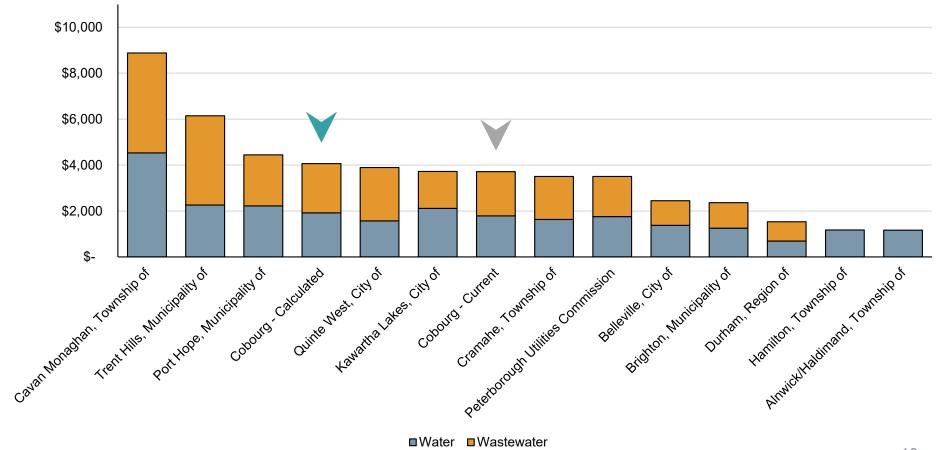
Survey of Annual Residential Water & Wastewater Bill - 138 m³ of Annual Consumption on 3/4" Meter



Municipal Comparison Non-Residential Water and Wastewater Bill



Survey of Annual Non-Residential Water & Wastewater Bill - 406 m³ of Annual Consumption on 2" Meter



Recommendations

Water and Wastewater Rate Study

- 1. That Council provide for the recovery of all water and wastewater costs through full cost recovery rates;
- 2. That Council approve the 2021 to 2025 water and wastewater rates;
- 3. That Council direct staff to update the D.C. Background Study to reflect the updated costs of water and wastewater servicing;
- That the Town will seek to enter into up-front financing arrangements with developers for the emplacement of D.C.eligible infrastructure; and
- 5. That Council direct staff to consider the results of the Rate Study in future amendments to the Town's asset management plan

Recommendations

Water Financial Plan



- The Town of Cobourg Financial Plan prepared by Watson & Associates Economists Ltd. dated December 11, 2020 be approved;
- 2. Notice of availability of the Financial Plan be advertised;
- 3. The Financial Plan, the Council Resolution approving the Financial Plan, and the Rate Study underpinning the Financial Plan be submitted to the Ministry of Municipal Affairs and Housing. (O.Reg. 453/07, Section 3 (1) 6); and
- 4. The Council Resolution approving the Financial Plan be submitted to the Ministry of the Environment, satisfying the requirements under the Safe Drinking Water Act. (S.D.W.A. Section 32 (5) 2 ii))