

Administration

Office of the Regional Clerk

1815 Sir Isaac Brock Way, PO Box 1042, Thorold, ON L2V 4T7

Telephone: 905-685-4225 Toll-free: 1-800-263-7215 Fax: 905-687-4977

www.niagararegion.ca

January 10, 2020

CL 23-2019, December 12, 2019
BRCOTW 9-2019, November 28, 2019
CSD 71-2019, November 28, 2019

LOCAL AREA MUNICIPALITIES**SENT ELECTRONICALLY**

2020 Budget-Water and Wastewater Operating Budget, Rate Setting and Requisition
CSD 71-2019

Regional Council, at its meeting held on December 12, 2019, approved the following recommendations of Budget Review Committee of the Whole:

That Report CSD 71-2019, dated November 28, 2019, respecting 2020 Budget-Water and Wastewater Operating Budget, Rate Setting and Requisition, **BE RECEIVED** and the following recommendations **BE APPROVED**:

1. That the 2020 net Water & Wastewater operating base budget increase of \$2,340,055 or 2.00% over the 2019 operating budget **BE APPROVED** in accordance with Council approved budget planning direction;
2. That the 2020 net Water & Wastewater operating budget increase of an additional 3.15% over the 2019 operating budget **BE APPROVED** to accommodate enhanced Capital financing contributions in accordance with Council approved Safe Drinking Water Act Financial Plan as follows:
 - a. \$1,350,459 or 1.16% over the 2019 operating budget representing an increase in capital financing contributions for water; and
 - b. \$2,332,479 or 1.99% over the 2019 operating budget representing an increase in capital financing contributions for wastewater;

3. That the 2020 gross Water Operations operating budget of \$46,300,620 and net budget in the amount of \$45,920,957 as outlined in Appendix 6 of Report CSD 71-2019 for the Water Budget, Rates and Requisition **BE APPROVED**;
4. That the proposed fixed water requisition shown in Table 3 of Report CSD 71-2019, based on 25% of the Region's water net operating budget for the year and divided by 12 to determine the monthly charge, to be billed to each of the serviced Local Area Municipalities starting January 1, 2020, apportioned based on their previous three year's average water supply volumes, **BE APPROVED**;
5. That the Region's proposed 2020 variable water rate of \$0.602, shown in Table 4 of Report CSD 71-2019, to be effective January 1, 2020 and calculated by taking 75% of the Region's water net operating budget and dividing by the estimated supply volume, to be billed on a monthly basis to each serviced Local Area Municipality based on the previous month's metered flows, **BE APPROVED**;
6. That the 2020 gross Wastewater Operations operating budget of \$80,504,266 and net budget in the amount of \$77,020,694 as outlined in Appendix 6 of Report CSD 71-2019 for the Wastewater Budget, Rates and Requisition **BE APPROVED**;
7. That the proposed 2020 fixed wastewater requisition as shown in Table 5 of Report CSD 71-2019, based on 100% of the Region's net operating budget for the year and divided by 12 to determine the monthly charge, to be billed to each of the Local Area Municipalities starting January 1, 2020, apportioned based on their previous three year's average wastewater supply volumes, **BE APPROVED**;
8. That the 2020 wastewater monthly bills **INCLUDE** reconciliation for the 2018 net requisition allocation based on actual wastewater flows versus the estimated flows, as shown in Table 6 of Report CSD 71-2019;

9. That the necessary by-laws **BE PREPARED** and **PRESENTED** to Council for consideration; and
10. That a copy of Report CSD 71-2019 **BE CIRCULATED** to the Local Area Municipalities.

A copy of Report CSD 71-2019 and By-law Nos. 2019-94 and 2019-95 are enclosed for your reference.

Yours truly,



Ann-Marie Norio
Regional Clerk
:cjp

CLK-C 2019-267

cc: H. Chamberlain, Director, Financial Management & Planning, Deputy Treasurer
T. Harrison, Commissioner, Corporate Services, Treasurer
M. Abraham, Executive Assistant, Corporate Services

Subject: 2020 Budget-Water and Wastewater Operating Budget, Rate Setting and Requisition

Report to: Budget Review Committee of the Whole

Report date: Thursday, November 28, 2019

Recommendations

1. That the 2020 net Water & Wastewater operating base budget increase of \$2,340,055 or 2.00% over the 2019 operating budget **BE APPROVED** in accordance with Council approved budget planning direction;
2. That the 2020 net Water & Wastewater operating budget increase of an additional 3.15% over the 2019 operating budget **BE APPROVED** to accommodate enhanced Capital financing contributions in accordance with Council approved Safe Drinking Water Act Financial Plan as follows:
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6. That the 2020 gross Wastewater Operations operating budget of \$80,504,266 and net budget in the amount of \$77,020,694 as outlined in Appendix 6 for the Wastewater Budget, Rates and Requisition **BE APPROVED**;

7. That the proposed 2020 fixed wastewater requisition as shown in Table 5 of report CSD 71-2019, based on 100% of the Region's net operating budget for the year and divided by 12 to determine the monthly charge, to be billed to each of the Local Area Municipalities starting January 1, 2020, apportioned based on their previous three year's average wastewater supply volumes, **BE APPROVED**;
8. That the 2020 wastewater monthly bills **INCLUDE** reconciliation for the 2018 net requisition allocation based on actual wastewater flows versus the estimated flows, as shown in Table 6 of report CSD 71-2019;
9. That the necessary by-laws **BE PREPARED** and **PRESENTED** to Council for consideration; and
10. That a copy of Report CSD 71-2019 **BE CIRCULATED** to the Local Area Municipalities.

Key Facts

- The proposed net Water budget before enhanced capital financing represents a \$0.33 million increase, or 0.75% over 2019; the proposed net Wastewater budget before enhanced capital financing represents a \$2.3 million increase, or 2.76% over 2019, for a combined Water & Wastewater Budget increase of 2.00% as shown in Table 1.
- The budget is representative of the Council approved 2020 budget planning direction of 2.0% for base budget expenditure.
- Staff are requesting a separate 3.15% increase for capital financing to support infrastructure requirements as outlined in the Council approved Safe Drinking Water Act (SDWA) Financial Plan.
- Included in the 2020 base program change (and therefore accommodated within the 2% budget planning direction) is a program change totaling \$7 thousand representing 1 new FTEs.
- The requisition methodology conforms to Council approved cost recovery methodology from 2011, which was reaffirmed through report CSD 61-2015, on July 2, 2015. The methodology apportions to the local area municipalities water at 75% variable rate and 25% as a fixed component and wastewater 100% fixed.
- The proposed variable water rate is increased to \$0.584 for base expenditure and by an additional \$0.018 for capital for a total of \$0.602 (2019 = \$0.580) attributed to the budget increase with no projected change in water flows.

Financial Considerations

The Water and Wastewater Division's proposed 2020 net budget amount of \$122.94 million represents a \$6.02 million net increase or 5.15% from the 2019 budget, as shown in Table 1. \$77.02 million of the total net cost is related to the Wastewater program, representing a net increase of \$4.34 million, or 5.97% from 2019. The

remaining \$45.92 million relates to the Water program, which has increased by \$1.68 million, or 3.80% from 2019. The proposed gross budget and comparison to the 2019 net budget are outlined in Table 1.

Table 1 – Summary of Proposed Water and Wastewater Base Budgets

2020 Proposed Budget - Gross & Net			
	Water	Wastewater	Total
Net 2019 Budget Requisition	44,238,899	72,679,759	116,918,658
2020 Budget:			
Total Operating Expenses	21,928,290	48,378,209	70,306,499
Business support	2,043,659	3,013,601	5,057,260
Reserve Transfer & Debt Charges	20,978,212	26,779,977	47,758,189
Gross 2020 Budget Total	44,950,161	78,171,787	123,121,948
Less: Revenues*	(379,663)	(3,483,572)	(3,863,235)
Less: Reserve Funding*	-	-	-
Net 2020 Budget Requisition - Before Increased Capital Financing	44,570,498	74,688,215	119,258,713
Percentage Change	0.75%	2.76%	2.00%
Increased Capital Requirement	1,350,459	2,332,479	3,682,938
Net 2020 Budget Requisition - After Increased Capital Financing	45,920,957	77,020,694	122,941,651
Percentage Change	3.80%	5.97%	5.15%

*Revenue amounts presented in this table do not include revenue amounts in water and wastewater shared services (included as an offset in total operating expenses).

Analysis

The 2020 Water and Wastewater budgets were developed giving consideration to historical results (2018 actuals, 2019 forecast), operational concerns, legislative compliance, standard operating procedures, collaborations with LAMs, and cross-divisional and corporate business support costs.

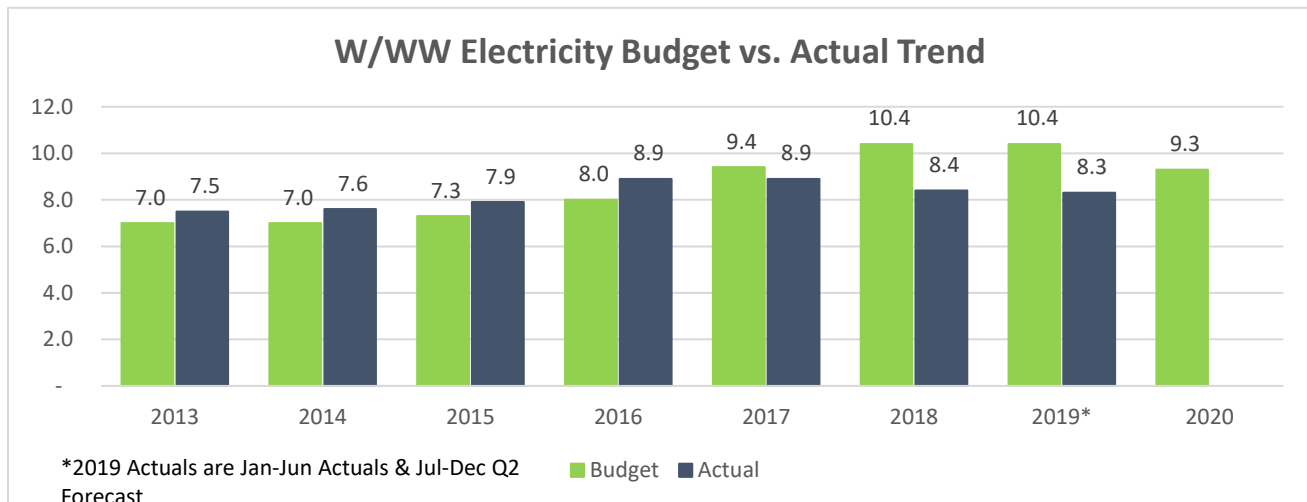
The total program cost includes both operating expenditures (representing 55% of total program costs), as well as transfers to reserve and debt charges in support of the capital program (representing 41% of the total program costs) with the remaining as business support (4%).

Pressures

Despite the pressures discussed below, the based combined operating budget impact for 2020 over 2019 has been limited to \$2,340,055 or 2.00% as per Council approved budget planning direction. Pressures to the 2020 budget include:

- Labour Related Costs (\$1.1 million) – Base labour related costs increased by \$576,000 or 2.4% over 2019. The remainder of the increase can be attributed to a shift in resources directly attributed and funded by capital to asset management planning (\$74k), a staffing program change as outlined in Table 2 (\$80k gross) and the inclusion of 2.5 temporary FTEs that were added in 2019 by way of delegated authority and funded through salary gapping for capital project management.
- W/WW Master Servicing Plans (MSP) (Gross = \$0.8 million, Net = \$0.08 million) and Biosolids MSP (Gross = \$0.5 million, Net = \$0) - The MSP project was included in the Development Charge background study and is funded 90% from development charges with the remainder being funded by the existing ratepayers. Staff are recommending that the Biosolids MSP be funded from the wastewater stabilization reserve which will result in a net impact for 2020 of \$0. The biosolids MSP was not identified in the Development Charges background study as an eligible project for development charge funding.
- Computer software support as a result of Asset Management improvements (\$0.2 million) - Staff have identified an opportunity to enhance existing processes for water and wastewater asset management through a betterment to existing software. This software licensing fee has been accommodated within the base budget expenditure. Water and wastewater staff have communicated the need for this software enhancement with the corporate asset management office. It has been indicated that this enhancement does not overlap with future enhancement with the corporate asset management office.
- Large diameter mains inspection program (\$0.3 million), chemicals based on usage and cost increases (\$0.5 million), property taxes (\$0.2 million) and indirect allocation support costs (\$0.4 million).
- Anticipated savings in electricity (\$1.1 million) - Savings experienced in the budget for electricity expenditures amounts to \$1.1 million for 2020. As noted in Chart 1, historical actual electricity expenditures have shown a consistent year over year increase since 2013 through 2016. This trend however has leveled off starting in 2017. The budgeted decrease in electricity expenditures forecasted for 2020 is to right size the budget based on the recent flattened trend. It is expected that the current level of electricity expenditure will continue on the current trajectory until the expiry of the Fair Hydro Act in 2021.

Chart 1 – Electricity Budget vs. Actuals 2013 to 2020



The proposed 2020 operating budget includes in the base budget a staff initiative for one FTE as a program change. This program change is summarized below in **Table 2**.

Table 2 – Summary of Proposed Water and Wastewater Program Change

Division	FTE	Item	Net Amount	Details
Wastewater Operations	1	Biosolids Operator	\$7.1 K	Compensation cost mostly offset by savings in sludge collection of \$73K; currently there is only 1 employee at each facility; having a backup will enable processing to continue if existing staff is not available.
Total	9		\$7.1 K	

Reserve Management - Capital/Infrastructure

Council provided budget planning direction of 2% for base services in accordance with core CPI. Staff have prepared the base budget in accordance with this planning direction but are making a specific request for enhanced financing for 2020 to align with the SDWA financial plan. As per the Council approved SDWA Financial Plan, staff presented a 5.15% increase for water and wastewater infrastructure within CSD 40-2019 – 2020 Budget Planning.

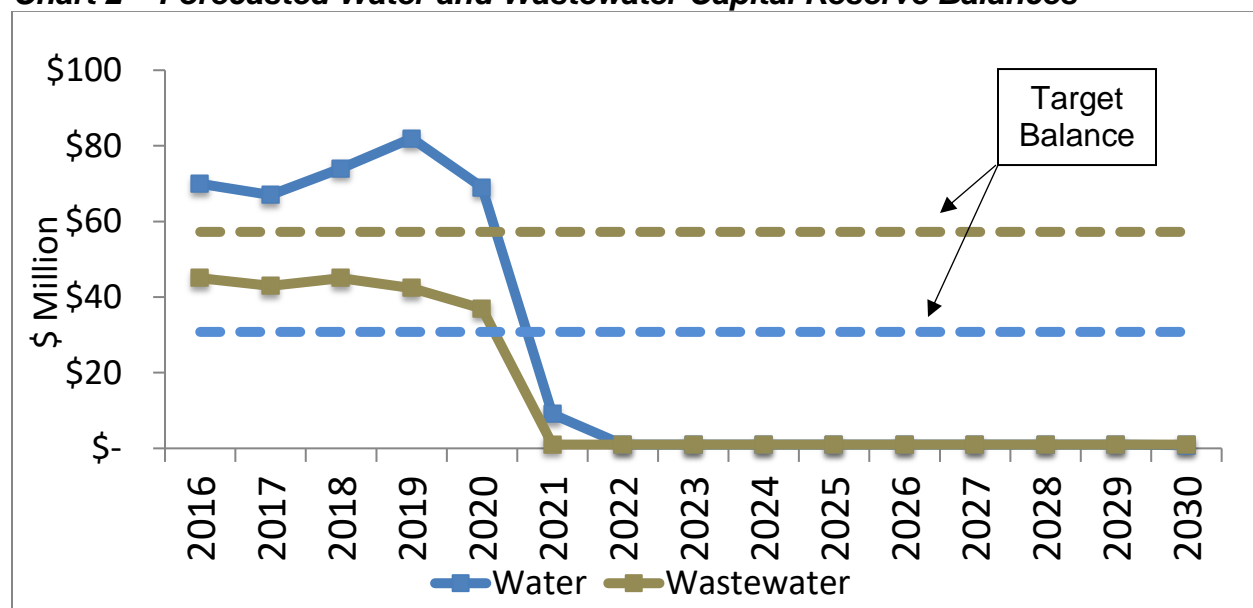
In 2017, Council approved a comprehensive Asset Management Plan (AMP). The detailed information available in the AMP was utilized in the 2020 capital budget preparation. The consultant reviewed the 10 year budget and established that even if the entire available capital dollars were applied against the replacement and rehabilitation of existing assets the Region's annual funding gap would be \$77M (10

year Average Annual Renewal investment - AARI). This annual investment would address the average 10 year requirement and backlog as of December 2016.

During 2018, Regional Council reviewed and approved the Safe Water Drinking Act (SDWA) Financial Plan which identified increasing capital financing as an urgent need in order to address the current infrastructure gap. At that time Council approved in principle a combined annual 5.15% increase for water and wastewater. For 2019, this 3.15% increase for capital resulted in an additional combined water and wastewater transfer from operating to capital of \$3M. If approved for 2020, a similar amount would be allocated to the capital financing.

As presented within the financial strategy, staff proposed as a guiding principle that a minimum reserve balance of 2% of the current asset value be maintained. The dotted lines on the chart below illustrate the 2% target compared against the forecasted reserve balance for each year. Without the additional 3.15% annual contribution towards capital, both the water and wastewater reserve are fully committed through the end of the forecast period and the capital financing does not adequately address the capital infrastructure needs for the future.

Chart 2 – Forecasted Water and Wastewater Capital Reserve Balances



Water Requisition

Fixed Water Requisition

As per Council's approved methodology, \$11,480,239 (25%) of the net Water budget will be recovered from fixed monthly requisitions to the local municipalities based on historical flows. The historical water flows and percentages utilized are included in **Appendix 1 and 2**. This annual amount based on the historical flows is then divided by

12 to determine the monthly charge to be billed to each of the services LAMs starting January 1, 2020. Also included as part of **Appendix 1** is the annual impact on the fixed water requisition amount between 2019 and 2020 for each LAM. Table 3 summarizes the fixed amounts to be billed to each LAM based on the above methodology.

Table 3 – Fixed Water Requisition for 2020 Net Budget

Fixed Water Requisition for 2020 Net Budget			
Municipality	3-Year Avg. (%)	Allocation (\$)	Monthly (\$)
Fort Erie	7.84%	\$899,645	\$74,970
Grimsby	5.30%	\$608,082	\$50,674
Lincoln	3.94%	\$452,771	\$37,731
Niagara Falls	26.23%	\$3,011,163	\$250,930
Niagara-on-the-Lake	5.43%	\$623,711	\$51,976
Pelham	2.06%	\$236,558	\$19,713
Port Colborne	5.31%	\$610,016	\$50,835
St. Catharines	26.51%	\$3,042,931	\$253,578
Thorold	3.72%	\$427,215	\$35,601
Welland	12.13%	\$1,392,536	\$116,045
West Lincoln	1.53%	\$175,609	\$14,634
Total	100.00%	\$11,480,239	\$956,687

Variable Water Rate

The remaining \$34,440,718 (75%) will be charged through the variable water rates. Staff is recommending that the variable rate be set at \$0.602 per cubic metre as outlined in Table 4 using a water forecast based on the average flow volumes that have been realized over the past three years. For 2020, staff are projecting water flows to be consistent with the amount estimated for the 2019 budget. An overview of the water trends and related risk is outlined in more detail in **Appendix 2**. The proposed variable water rate is increased by \$0.004 (0.67%) for base and \$0.018 (3.05%) for capital for a total of \$0.602 (2019 = \$0.580) which is attributed to budget increases with no projected change in water flows. Despite above average growth for the Region in recent years the flow estimates are still volatile and are dependent on weather conditions for the year. Staff are projecting that the 2019 estimated flows will not be achieved by year end. By maintaining the flow forecast it will assist in mitigating the risks associated with the volatility in weather conditions (particularly wet weather conditions).

Table 4 – Variable Water Rate for 2020 Net Budget

2020 Variable Water Rate	
Variable Allocation (75% x \$45,920,957)	\$34,440,718
2020 Water Flow Forecast (m ³)	57,250,000
Variable Rate (\$/m ³)	\$0.602

Wastewater Requisition

100% of the net wastewater requisition will be recovered from fixed monthly requisitions to the local municipalities. The historical wastewater flows and percentages utilized are included in **Appendix 3**. This annual amount based on the historical flows is then divided by 12 to determine the monthly charge to be billed to each of the services Local Area Municipalities starting January 1, 2020. Also included as part of **Appendix 3** is the annual impact of the fixed wastewater requisition amount between 2019 and 2020 for each LAM. Table 5 summarizes the fixed amounts to be billed to each LAM based on the above methodology.

Table 5 – Fixed wastewater Requisition for 2020 Net Budget

Fixed Wastewater Requisition for 2020 Net Budget			
Municipality	3-Year Avg. (%)	Allocation (\$)	Monthly (\$)
Fort Erie	10.44%	\$8,043,911	\$670,326
Grimsby	4.86%	\$3,740,290	\$311,691
Lincoln	3.83%	\$2,948,685	\$245,724
Niagara Falls	19.62%	\$15,113,526	\$1,259,460
Niagara-on-the-Lake	4.14%	\$3,185,401	\$265,450
Pelham	1.79%	\$1,379,048	\$114,921
Port Colborne	5.90%	\$4,544,117	\$378,676
St. Catharines	28.45%	\$21,916,001	\$1,826,333
Thorold	5.06%	\$3,899,808	\$324,984
Welland	14.30%	\$11,012,336	\$917,695
West Lincoln	1.61%	\$1,237,572	\$103,131
Total	100.00%	\$77,020,694	\$6,418,391

As per Council's approved cost recovery methodology, the 2020 monthly Wastewater charges will include reconciliation of the 2018 Wastewater requisition payments. Municipal 2018 rebates or charges will be based on their respective share of actual flows versus the estimated share used to initially allocate the 2018 charges. This reconciliation results in a total of \$1,176,562 in payments to, and \$1,176,562 in rebates from, the local municipalities. Tables outlining the calculation of the reconciliation have been included as **Appendix 4**, and the total charge including the 2020 requisition and 2018 reconciliation by local municipality has been included as **Appendix 5**.

Table 6 – Wastewater Reconciliation for 2018 included in 2020 Requisition

Wastewater Reconciliation (2018)			
Municipality	Reconciliation (\$)	Monthly Rebate (\$)	Monthly Payment (\$)
Fort Erie	(189,542)	(15,795)	
Grimsby	72,923		6,077
Lincoln	23,238		1,937
Niagara Falls	(711,135)	(59,261)	
Niagara-on-the-Lake	114,819		9,568
Pelham	(83,549)	(6,962)	
Port Colborne	159,962		13,330
St. Catharines	448,367		37,364
Thorold	300,668		25,056
Welland	(192,335)	(16,028)	
West Lincoln	56,585		4,715
Total	(0)	(98,047)	98,047

Risks

- Water revenue is weather dependant and therefore subject to fluctuations that are outside the Region's control.
- Wastewater costs can also be weather dependent and therefore subject to fluctuations that are outside the Region's control.
- Unanticipated equipment and underground infrastructure failure which may impact operating expenditures.
- Unanticipated new provincial standards that may create operational pressures.
- Limited operational financial flexibility until the budget fully addresses the asset management plan/SDWA and may create further pressure on the already forecasted decline in reserves.
- Additional capital expenditures may be required as a result of Ontario Power Generation's operational and maintenance activities with respect to the Hydro Power Canal closure.

Alternatives Reviewed

1. Council may elect to not approve the enhanced capital financing as presented representing an increase of 3.15% over 2019. This alternative is **NOT RECOMMENDED**. This alternative would limit the increase in the requisition from 2019 to 2020 to 2.00% which is within Council's approved budget directions. This alternative would not provide the requisite capital financing needed to support future capital expenditures as identified within the SDWA Financial Plan as approved by Council.
2. If Council approves the 3.15% or \$3.68 million to enhance capital financing, staff **RECOMMEND** that \$479,990 be allocated to debt servicing, \$550,000 allocated

to reserve funding with the remaining \$2,652,948 as a contribution to the reserve for capital project utilization in 2021 or future, to support an amendment to the 2020 Capital budget to address previously deferred projects as follows:

- Dain City Station Forcemain Replacement (\$550k) – ***Reserve Financed***
- Thundering Waters Sanitary Trunk Sewer Rehab (\$8.3M) – ***Debt Financed***
- The Niagara Falls WWTP Secondary Treatment Upgrade (\$58M) which was also deferred is not recommended to be added back to 2020 as WWW staff have indicated that the Ministry of Environment , Conservation and Parks (MECP) has granted an extension on the project which will enable time to obtain necessary approvals and complete detailed design.
- The Port Dalhousie WWTP Upgrade (\$14M) which was also deferred is not recommended to be added back to 2020 as WWW staff have indicated that a phased approach for this project is more appropriate due to the limited space to accommodate contractors on site, as such phase 2 should remain in 2021.

Relationship to Council Strategic Priorities

The 2020 Water and Wastewater proposed budgets support Council's strategic priorities of organizational excellence, by meeting or exceeding legislative requirements and having 41% of the total program costs related to infrastructure renewal and replacement.

Other Pertinent Reports

CSD 21-2017	Asset Management Plan
PDS 37-2016	Niagara 2041 Growth Strategy – Local Municipal Growth Allocations
PW 22-2017	2016 Water & Wastewater Master Servicing Plan Update
PW 5-2019	Safe Drinking Water Act Financial Plan

Prepared by:

Helen Chamberlain, CPA, CA
Director, Financial Management &
Planning/Deputy Treasurer

Recommended by:

Todd Harrison, CPA, CMA
Commissioner/Treasurer
Enterprise Resource Management
Services

Submitted by:

Ron Tripp, P.Eng.
Acting, Chief Administrative Officer

This report was prepared by Rob Fleming, Senior Tax & Revenue Analyst, in consultation with Pamela Hamilton, Program Financial Specialist and Reviewed by Margaret Murphy, Associate Director, Budget Planning & Strategy, and Catherine Habermehl, Acting Commissioner, Public Works.

Appendices

Appendix 1	Water Flows and Fixed Water Requisition by Local Area Municipality
Appendix 2	Water Volume Analysis
Appendix 3	Wastewater Flows and Fixed Wastewater Requisition by Local Area Municipality
Appendix 4	2017 By-law Wastewater Reconciliation
Appendix 5	Fixed Wastewater Requisition including Reconciliation by Local Area Municipality
Appendix 6	Water and Wastewater Schedule of Revenues and Expenditures by Object of Expenditure

Appendix 1 - Water Flows and Fixed Water Requisition by Local Area Municipality

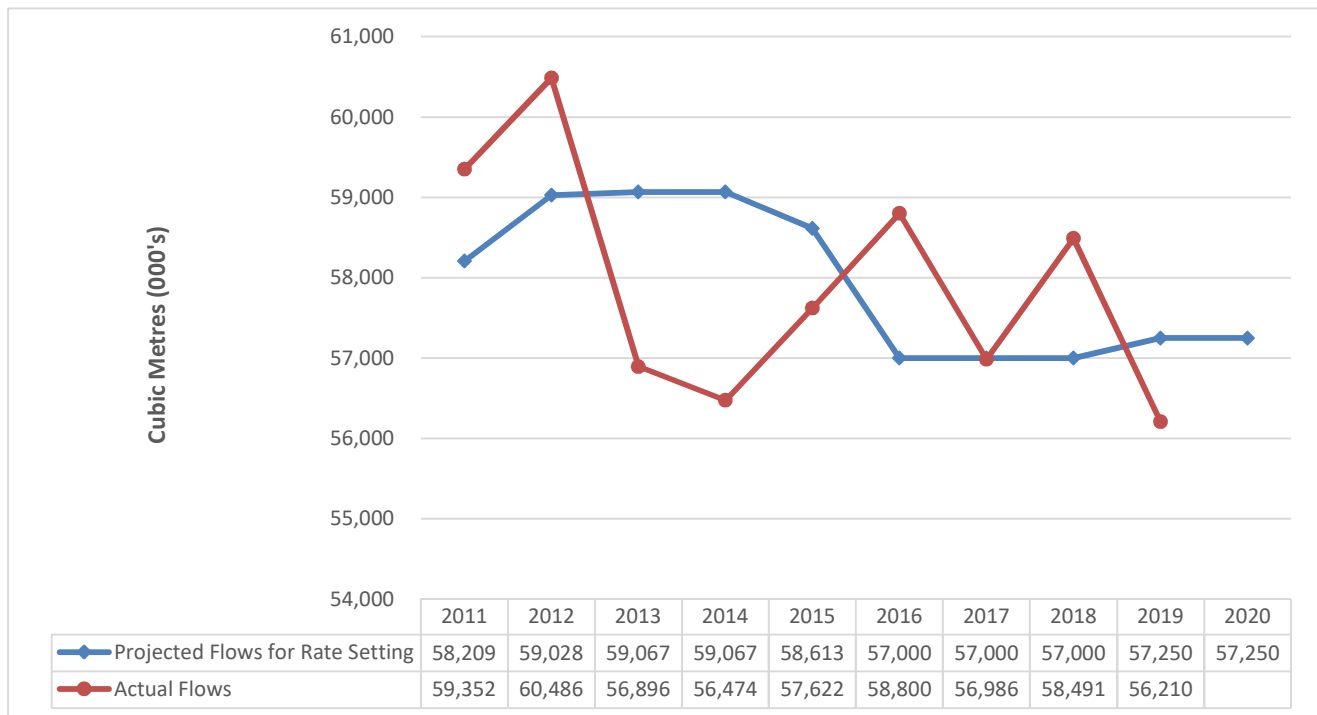
Table 1 - Water Flows by Municipality

Municipality	3-Year Avg. per 2019 By-law		3-Year Avg. per 2020 By-law	
	Megalitres	%	Megalitres	%
Fort Erie	4,686	8.06%	4,478	7.84%
Grimsby	3,258	5.60%	3,027	5.30%
Lincoln	2,315	3.98%	2,254	3.94%
Niagara Falls	15,424	26.53%	14,989	26.23%
Niagara-on-the-Lake	3,147	5.41%	3,105	5.43%
Pelham	1,266	2.18%	1,178	2.06%
Port Colborne	3,093	5.32%	3,037	5.31%
St. Catharines	15,350	26.41%	15,148	26.51%
Thorold	2,076	3.57%	2,127	3.72%
Welland	6,653	11.45%	6,932	12.13%
West Lincoln	862	1.48%	874	1.53%
Total	58,130	100%	57,148	100%

Table 2 - Fixed Water Requisition by Municipality

Municipality	Fixed Requisition			
	2019 (\$000)	2020 (\$000)	Difference	
			\$000s	%
Fort Erie	892	900	8	0.91%
Grimsby	620	608	(12)	-1.89%
Lincoln	440	453	12	2.80%
Niagara Falls	2,935	3,011	77	2.61%
Niagara-on-the-Lake	599	624	25	4.16%
Pelham	241	237	(4)	-1.81%
Port Colborne	588	610	22	3.66%
St. Catharines	2,920	3,043	123	4.19%
Thorold	395	427	32	8.14%
Welland	1,266	1,393	127	10.02%
West Lincoln	164	176	12	7.12%
Total	11,060	11,480	421	3.80%

Appendix 2 - Water Volume Analysis



The 2019 actual flows are estimate to finish the year approximately 1.82% lower than project flows. The forecasted water usage in 2019 is estimated to total to 56,210 ML.

The water volume forecast for 2020 has been prepared giving consideration to historical trends and input received from some local area municipalities.

The volume forecast for 2020 is above the 3-year calendar average of 57,229 ML and below the 5-year average of 57,622 ML. This includes 2015 and 2018 which were more typical summer weather years. 2016 experienced drought conditions during the summer. 2017 and 2019 experienced very wet summers. The 2020 estimate reflects no change over previous year's projections as a result of not meeting expected forecast for 2019.

Appendix 3 - Wastewater Flows and Fixed Requisition By Local Area Municipality

Table 1 - Wastewater Flows by Municipality

Municipality	3-Year Avg. per 2019 By-law		3-Year Avg. per 2020 By-law	
	Megalitres	%	Megalitres	%
Fort Erie	7,348	10.45%	7,931	10.44%
Grimsby	3,216	4.57%	3,688	4.86%
Lincoln	2,745	3.90%	2,907	3.83%
Niagara Falls	14,247	20.26%	14,901	19.62%
Niagara-on-the-Lake	2,864	4.07%	3,141	4.14%
Pelham	1,309	1.86%	1,360	1.79%
Port Colborne	3,944	5.61%	4,480	5.90%
St. Catharines	20,064	28.54%	21,608	28.45%
Thorold	3,420	4.86%	3,845	5.06%
Welland	10,025	14.26%	10,858	14.30%
West Lincoln	1,125	1.60%	1,220	1.61%
Total	70,306	100%	75,938	100%

Tables 2 - Fixed Wastewater Requisition by Municipality

Municipality	Fixed Requisition			
	2019 (\$000)	2020 (\$000)	Difference	
			\$000s	%
Fort Erie	7,596	8,044	448	5.90%
Grimsby	3,324	3,740	416	12.52%
Lincoln	2,837	2,949	112	3.94%
Niagara Falls	14,728	15,114	386	2.62%
Niagara-on-the-Lake	2,961	3,185	224	7.58%
Pelham	1,354	1,379	25	1.85%
Port Colborne	4,077	4,544	467	11.46%
St. Catharines	20,741	21,916	1,175	5.67%
Thorold	3,536	3,900	364	10.29%
Welland	10,363	11,012	649	6.27%
West Lincoln	1,163	1,238	75	6.41%
Total	72,680	77,021	4,341	5.97%

Appendix 4 - 2018 By-law Wastewater Reconciliation

Wastewater Flows (Mega Litres)		
Municipality	Prior 3-Yr Avg	2018 By-Law Period Actual Flows ¹
Fort Erie	7,159	7,737
Grimsby	3,143	3,571
Lincoln	2,575	2,885
Niagara Falls	14,018	14,770
Niagara-on-the-Lake	2,655	3,076
Pelham	1,299	1,349
Port Colborne	3,934	4,547
St. Catharines	19,583	22,246
Thorold	3,183	3,870
Welland	9,951	10,835
West Lincoln	1,072	1,254
Total	68,571	76,140

Wastewater Fixed Allocation Percentages			
Municipality	Prior 3-Yr Avg	2018 By-Law Period Actual Flows ¹	Difference
Fort Erie	10.4%	10.2%	-0.3%
Grimsby	4.6%	4.7%	0.1%
Lincoln	3.8%	3.8%	0.0%
Niagara Falls	20.4%	19.4%	-1.0%
Niagara-on-the-Lake	3.9%	4.0%	0.2%
Pelham	1.9%	1.8%	-0.1%
Port Colborne	5.7%	6.0%	0.2%
St. Catharines	28.6%	29.2%	0.7%
Thorold	4.6%	5.1%	0.4%
Welland	14.5%	14.2%	-0.3%
West Lincoln	1.6%	1.6%	0.1%
Total	100.0%	100.0%	0.0%

Wastewater Fixed Allocation charge (\$000)			
Municipality	2018 By-Law Charges ^{1,2}	Charges Based on Actual Flows ¹	Underpayment/ (Overpayment) ³
Fort Erie	\$ 7,114	\$ 6,925	\$ (190)
Grimsby	3,123	3,196	73
Lincoln	2,559	2,582	23
Niagara Falls	13,930	13,219	(711)
Niagara-on-the-Lake	2,639	2,753	115
Pelham	1,291	1,207	(84)
Port Colborne	3,910	4,070	160
St. Catharines	19,462	19,910	448
Thorold	3,163	3,464	301
Welland	9,890	9,697	(192)
West Lincoln	1,066	1,122	57
Total	\$ 68,146	\$ 68,146	\$ 0

Sum of Overpayment:	(1,177)
Percentage of Requisition	1.73%

Notes:

1. 2018 By-Law period consists of the 12 month period from January 2018 to December 2018
2. Charges paid excluded payments made/rebates received for 2017 reconciliation.
3. Underpayments/(Overpayments) based on comparing 2 difference allocation methodologies (3-yr average vs. actual flows during By-law period).

Appendix 5 - Fixed Wastewater Requisition Including Reconciliation by Municipality Comparison

Municipality	Requisition		Reconciliation Payment / (Refund)		Total Charge (Requisition + Reconciliation)			
	2019 By-Law	2020 By-Law	2019 (2017 Rec.)	2020 (2018 Rec.)	2019 By-Law	2020 By-Law	Difference	
	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	%
Fort Erie	7,596	8,044	328	(190)	7,924	7,854	(70)	-0.88%
Grimsby	3,324	3,740	165	73	3,489	3,813	324	9.29%
Lincoln	2,837	2,949	231	23	3,068	2,972	(96)	-3.13%
Niagara Falls	14,728	15,114	805	(711)	15,532	14,402	(1,130)	-7.28%
Niagara-on-the-Lake	2,961	3,185	338	115	3,299	3,300	1	0.04%
Pelham	1,354	1,379	(65)	(84)	1,289	1,295	7	0.54%
Port Colborne	4,077	4,544	(181)	160	3,896	4,704	808	20.75%
St. Catharines	20,741	21,916	(1,427)	448	19,314	22,364	3,050	15.79%
Thorold	3,536	3,900	179	301	3,715	4,200	486	13.08%
Welland	10,363	11,012	(404)	(192)	9,960	10,820	860	8.64%
West Lincoln	1,163	1,238	32	57	1,195	1,294	99	8.32%
Total	72,680	77,021	-	-	72,680	77,021	4,341	5.97%

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	2018 Actual	2019		2020						
	Total	Q2 Forecast Total	Budget Total	Base Services	Base Variance	Base Variance %	Budget Total Program Changes	Total	Total Variance	Total Variance %
A_40000AB Compensation	22,214,973	23,254,127	23,739,732	24,852,445	1,112,713	4.7%	-	24,852,445	1,112,713	4.7%
A_41000AB Administrative	1,966,527	2,312,550	2,017,200	3,432,915	1,415,715	70.2%	-	3,432,915	1,415,715	70.2%
A_44000AB Operational & Supply	12,679,974	12,903,298	12,709,326	13,166,433	457,108	3.6%	-	13,166,433	457,108	3.6%
A_50000AB Occupancy & Infrastructure	16,059,319	18,134,584	17,950,464	17,699,503	(250,961)	(1.4%)	-	17,699,503	(250,961)	(1.4%)
A_52000AB Equipment, Vehicles,Technology	6,164,859	6,661,316	6,142,880	6,588,120	445,240	7.2%	-	6,588,120	445,240	7.3%
A_54000AB Community Assistance	153	965	-	-	-	-	-	-	-	-
A_56000AB Partnership, Rebate, Exemption	2,450,015	18,198,031	4,015,000	4,010,000	(5,000)	(0.1%)	-	4,010,000	(5,000)	(0.1%)
A_58000AB Financial Expenditures	9,053	31,302	-	-	-	-	-	-	-	-
A_75100AC Transfers To Funds	40,018,792	37,037,556	37,037,556	37,065,780	28,224	0.1%	3,682,938	40,748,718	3,711,162	10.0%
A_60000AC Allocation Between Departments	1,753,677	1,743,136	1,823,753	1,777,083	(46,669)	(2.6%)	-	1,777,083	(46,669)	(2.6%)
A_60260AC Allocation Within Departments	-	0	0	-	0	-	-	-	0	-
Gross Expenditure Subtotal	103,317,341	120,276,865	105,435,911	108,592,279	3,156,368	3.0%	3,682,938	112,275,217	6,839,306	6.5%
A_30000AB Taxation	(112,013,218)	(116,315,656)	(116,918,658)	(119,146,062)	(2,227,403)	1.9%	(3,795,589)	(122,941,651)	(6,022,993)	5.2%
A_32400AB By-Law Charges & Sales	(1,260,444)	(1,488,933)	(1,358,200)	(1,421,278)	(63,078)	4.6%	-	(1,421,278)	(63,078)	4.6%
A_34950AB Other Revenue	(1,275,273)	(7,293,962)	(2,481,106)	(3,161,957)	(680,851)	27.4%	-	(3,161,957)	(680,851)	27.4%
A_75000AC Transfers From Funds	(3,863,227)	(9,658,836)	-	(500,000)	(500,000)	-	-	(500,000)	(500,000)	-
Gross Revenue Subtotal	(118,412,163)	(134,757,387)	(120,757,964)	(124,229,297)	(3,471,333)	2.9%	(3,795,589)	(128,024,886)	(7,266,922)	6.0%
Net Expenditure (revenue) before indirect allocations	(15,094,821)	(14,480,522)	(15,322,053)	(15,637,017)	(314,964)	2.1%	(112,651)	(15,749,669)	(427,616)	2.8%
A_70000AC Indirect Allocation	3,602,252	4,254,855	4,366,304	4,709,867	343,564	7.9%	112,651	4,822,519	456,215	10.5%
A_70200AC Capital Financing Allocation	9,413,115	10,963,017	10,955,749	10,927,150	(28,600)	(0.3%)	-	10,927,150	(28,600)	(0.3%)
Allocation Subtotal	13,015,368	15,217,872	15,322,053	15,637,017	314,964	2.1%	112,651	15,749,669	427,616	2.8%
Net Expenditure (revenue) after indirect allocations	(2,079,454)	737,350	0	-	0	-	-	-	0	-
FTE - Reg			261.6	262.6	1.0		-	262.6	1.0	
FTE - Temp			4.5	7.0	2.5		-	7.0	2.5	

D_67000C

	2018 Actual	2019		2020						
	Total	Q2 Forecast Total	Budget Total	Base Services	Base Variance	Base Variance %	Budget Total Program Changes	Total	Total Variance	Total Variance %
A_40000AB Compensation	7,120,433	7,570,603	7,810,164	7,954,489	144,325	1.8%	-	7,954,489	144,325	1.9%
A_41000AB Administrative	690,749	862,265	770,733	594,726	(176,007)	(22.8%)	-	594,726	(176,007)	(22.8%)
A_44000AB Operational & Supply	1,887,750	1,931,846	1,719,988	1,759,425	39,437	2.3%	-	1,759,425	39,437	2.3%
A_50000AB Occupancy & Infrastructure	5,064,546	5,283,782	6,125,436	5,639,309	(486,127)	(7.9%)	-	5,639,309	(486,127)	(7.9%)
A_52000AB Equipment, Vehicles, Technology	933,836	1,059,384	1,014,655	1,175,515	160,860	15.9%	-	1,175,515	160,860	15.9%
A_56000AB Partnership, Rebate, Exemption	10,000	(13,750)	15,000	10,000	(5,000)	(33.3%)	-	10,000	(5,000)	(33.3%)
A_58000AB Financial Expenditures	168	326	-	-	-	-	-	-	-	-
A_75100AC Transfers To Funds	18,414,458	18,425,078	18,425,078	18,435,757	10,679	0.1%	1,350,459	19,786,216	1,361,138	7.4%
A_60000AC Allocation Between Departments	594,720	595,713	605,396	629,912	24,516	4.0%	-	629,912	24,516	4.1%
A_60260AC Allocation Within Departments	3,986,249	3,836,537	3,842,500	4,164,914	322,414	8.4%	-	4,164,914	322,414	8.4%
Gross Expenditure Subtotal	38,702,909	39,551,784	40,328,950	40,364,047	35,097	0.1%	1,350,459	41,714,506	1,385,556	3.4%
A_30000AB Taxation	(43,867,547)	(43,635,898)	(44,238,899)	(44,518,840)	(279,940)	0.6%	(1,402,117)	(45,920,957)	(1,682,057)	3.8%
A_32400AB By-Law Charges & Sales	(11,943)	(10,649)	(5,000)	(12,000)	(7,000)	140.0%	-	(12,000)	(7,000)	140.0%
A_34950AB Other Revenue	(512,580)	(513,441)	(408,615)	(367,663)	40,952	(10.0%)	-	(367,663)	40,952	(10.0%)
A_75000AC Transfers From Funds	(29,108)	-	-	-	-	-	-	-	-	-
Gross Revenue Subtotal	(44,421,178)	(44,159,988)	(44,652,514)	(44,898,503)	(245,988)	0.6%	(1,402,117)	(46,300,620)	(1,648,105)	3.7%
Net Expenditure (revenue) before indirect allocations	(5,718,269)	(4,608,204)	(4,323,564)	(4,534,456)	(210,891)	4.9%	(51,658)	(4,586,114)	(262,550)	6.1%
A_70000AC Indirect Allocation	1,220,919	1,523,527	1,674,950	1,890,908	215,957	12.9%	51,658	1,942,566	267,616	16.0%
A_70200AC Capital Financing Allocation	2,047,974	2,637,521	2,648,614	2,643,548	(5,066)	(0.2%)	-	2,643,548	(5,066)	(0.2%)
Allocation Subtotal	3,268,893	4,161,048	4,323,564	4,534,456	210,892	4.9%	51,658	4,586,114	262,550	6.1%
Net Expenditure (revenue) after indirect allocations	(2,449,376)	(447,156)	0	-	0	-	-	-	0	-

FTE - Reg	82.0	81.0	(1.0)	-	81.0	(1.0)
FTE - Temp	2.0	2.0	-	-	2.0	-

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	2018 Actual	2019		2020						
	Total	Q2 Forecast Total	Budget Total	Base Services	Base Variance	Base Variance %	Budget Total Program Changes	Total	Total Variance	Total Variance %
A_40000AB Compensation	9,637,596	10,112,827	10,324,944	10,773,458	448,514	4.3%	-	10,773,458	448,514	4.3%
A_41000AB Administrative	824,074	936,355	934,994	742,955	(192,039)	(20.5%)	-	742,955	(192,039)	(20.5%)
A_44000AB Operational & Supply	10,512,270	10,617,090	10,386,744	10,854,079	467,335	4.5%	-	10,854,079	467,335	4.5%
A_50000AB Occupancy & Infrastructure	10,307,189	12,201,423	11,470,028	11,340,226	(129,802)	(1.1%)	-	11,340,226	(129,802)	(1.1%)
A_52000AB Equipment, Vehicles,Technology	3,019,774	3,569,019	3,088,313	3,301,033	212,720	6.9%	-	3,301,033	212,720	6.9%
A_54000AB Community Assistance	153	965	-	-	-	-	-	-	-	-
A_56000AB Partnership, Rebate, Exemption	2,440,015	18,211,781	4,000,000	4,000,000	-	-	-	4,000,000	-	-
A_58000AB Financial Expenditures	827	331	-	-	-	-	-	-	-	-
A_75100AC Transfers To Funds	21,604,334	18,612,478	18,612,478	18,630,023	17,545	0.1%	2,332,479	20,962,502	2,350,024	12.6%
A_60000AC Allocation Between Departments	854,035	865,676	893,415	862,801	(30,613)	(3.4%)	-	862,801	(30,613)	(3.4%)
A_60260AC Allocation Within Departments	5,864,550	5,608,971	5,396,046	6,503,657	1,107,611	20.5%	-	6,503,657	1,107,611	20.5%
Gross Expenditure Subtotal	65,064,815	80,736,917	65,106,961	67,008,233	1,901,272	2.9%	2,332,479	69,340,712	4,233,751	6.5%
A_30000AB Taxation	(68,145,671)	(72,679,758)	(72,679,759)	(74,627,222)	(1,947,463)	2.7%	(2,393,472)	(77,020,694)	(4,340,936)	6.0%
A_32400AB By-Law Charges & Sales	(1,244,048)	(1,475,126)	(1,353,200)	(1,409,278)	(56,078)	4.1%	-	(1,409,278)	(56,078)	4.1%
A_34950AB Other Revenue	(761,455)	(6,780,521)	(2,072,491)	(2,074,294)	(1,803)	0.1%	-	(2,074,294)	(1,803)	0.1%
A_75000AC Transfers From Funds	(3,834,119)	(9,658,836)	-	-	-	-	-	-	-	-
Gross Revenue Subtotal	(73,985,294)	(90,594,241)	(76,105,450)	(78,110,794)	(2,005,344)	2.6%	(2,393,472)	(80,504,266)	(4,398,817)	5.8%
Net Expenditure (revenue) before indirect allocations	(8,920,478)	(9,857,325)	(10,998,489)	(11,102,561)	(104,073)	0.9%	(60,993)	(11,163,555)	(165,066)	1.5%
A_70000AC Indirect Allocation	1,971,987	2,301,818	2,691,354	2,818,960	127,606	4.7%	60,993	2,879,953	188,599	7.0%
A_70200AC Capital Financing Allocation	7,318,414	8,288,210	8,307,135	8,283,602	(23,534)	(0.3%)	-	8,283,602	(23,534)	(0.3%)
Allocation Subtotal	9,290,401	10,590,029	10,998,489	11,102,561	104,073	0.9%	60,993	11,163,555	165,066	1.5%
Net Expenditure (revenue) after indirect allocations	369,923	732,704	-	-	-	-	-	-	-	-
FTE - Reg			115.6	116.6	1.0		-	116.6	1.0	
FTE - Temp			0.5	-	(0.5)		-	-	(0.5)	

THE REGIONAL MUNICIPALITY OF NIAGARA

BY-LAW NO. 2019-94

A BY-LAW TO ADOPT THE 2020 WATER BUDGET AND
TO SET THE REQUISITION TO BE CHARGED FOR
WATER SUPPLIED TO LOWER-TIER MUNICIPALITIES
FOR THE PERIOD JANUARY 1, 2020 TO DECEMBER 31,
2020

WHEREAS Section 11 of the *Municipal Act, 2001*, S.O. 2001, c.25, provides that a municipality may pass by-laws respecting services and things that the municipality is authorized to provide;

WHEREAS section 390 of the *Municipal Act, 2001*, S.O. 2001, c.25, provides that the definition of a person includes a municipality;

WHEREAS section 391 of the *Municipal Act, 2001*, S.O. 2001, c.25, provides that a municipality is authorized to impose fees or charges on person for costs payable by it for services or activities provided or done by or on behalf of any other municipality; and

WHEREAS water supplied to the lower-tier municipalities is a service provided by the Regional Municipality of Niagara on behalf of the lower-tier municipalities within the Niagara Region.

NOW THEREFORE the Council of The Regional Municipality of Niagara enacts as follows:

1. That the 2020 Water Gross Operating Budget of \$46,300,620 and Net Operating Budget of \$45,920,957 be and hereby is adopted.
2. That 75% of the Net Operating Budget, \$34,440,718 be recovered from the lower-tier municipalities based on actual metered water flows multiplied by the Region's annually set uniform water rate.
3. That the rate payable by the lower-tier municipalities for treated water supplied by the Regional Waterworks system shall be established at \$0.602 for every cubic meter supplied to each lower-tier municipality for the period of January 1, 2020 to December 31, 2020.
4. That 25% of the Net Operating Budget, \$11,480,239 be apportioned to the lower-tier municipalities based on their proportionate share of the Region's total three year average historical flows.

5. That the lower-tier municipalities be requisitioned during the period January 1, 2020 to December 31, 2020 as follows:

Fixed Water Requisition for 2020 Net Budget			
Municipality	3-Year Avg. (%)	Allocation (\$)	Monthly (\$)
Fort Erie	7.84%	\$899,645	\$74,970
Grimsby	5.30%	\$608,082	\$50,674
Lincoln	3.94%	\$452,771	\$37,731
Niagara Falls	26.23%	\$3,011,163	\$250,930
Niagara-on-the-Lake	5.43%	\$623,711	\$51,976
Pelham	2.06%	\$236,558	\$19,713
Port Colborne	5.31%	\$610,016	\$50,835
St. Catharines	26.51%	\$3,042,931	\$253,578
Thorold	3.72%	\$427,215	\$35,601
Welland	12.13%	\$1,392,536	\$116,045
West Lincoln	1.53%	\$175,609	\$14,634
Total	100.00%	\$11,480,239	\$956,687

6. That the Treasurer of the Regional Corporation shall submit similar invoices on or before the 15th day of each month commencing February 15, 2020 for the monthly requisition. Such monthly invoices shall continue thereafter until the December monthly requisition has been invoiced. Each lower-tier municipality shall remit the amount of each such invoices to the Treasurer of the Regional Corporation on or before the last business date of the month in which such invoice is submitted.
7. That in the event of default of payment of any monies payable under this by-law by a lower-tier municipality, interest at the rate of 15 per cent per annum shall be added to the amount in arrears from the date of default until the date of payment thereof.
8. That this by-law shall come into force and effect on January 1, 2020.

THE REGIONAL MUNICIPALITY OF NIAGARA

James Bradley, Regional Chair

Ann-Marie Norio, Regional Clerk

Passed: December 12, 2019

THE REGIONAL MUNICIPALITY OF NIAGARA

BY-LAW NO. 2019-95

A BY-LAW TO ADOPT THE 2020 WASTEWATER BUDGET
AND SET THE REQUISITIONS TO BE CHARGED FOR
WASTEWATER RECEIVED FROM THE LOWER-TIER
MUNICIPALITIES FOR THE PERIOD JANUARY 1, 2020 TO
DECEMBER 31, 2020

WHEREAS section 11 of the *Municipal Act, 2001*, S.O. 2001, c.25, provides that a municipality may pass by-laws respecting services and things that the municipality is authorized to provide;

WHEREAS section 390 of the *Municipal Act, 2001*, S.O. 2001, c.25, provides that the definition of a person includes a municipality;

WHEREAS section 391 of the *Municipal Act, 2001*, S.O. 2001, c.25, provides that a municipality is authorized to impose fees or charges on person for costs payable by it for services or activities provided or done by or on behalf of any other municipality,

WHEREAS wastewater received from the lower-tier municipalities is a service provided by the Regional Municipality of Niagara on behalf of the lower-tier municipalities within the Niagara Region; and

WHEREAS the Council of the Regional Municipality of Niagara passed By-Law No. 119-2011 which indicated that, consistent with the wastewater reconciliation methodology described in PWA 87-2011, a reconciliation adjustment will commence with the 2013 Budget.

NOW THEREFORE the Council of The Regional Municipality of Niagara enacts as follows:

1. That the 2020 Wastewater Gross Operating Budget of \$80,504,266 and Net Operating Budget of \$77,020,694 be and hereby is adopted.
2. That the 2020 budgeted net wastewater operating budget be apportioned to the lower-tier municipalities based on their proportionate share of the Region's total three year average historical wastewater flows.
3. That the 2020 wastewater bills also include reconciliation of the 2018 net requisition allocated based on actual wastewater flows versus the estimated flows.

4. That the lower-tier municipalities be requisitioned during the period January 1, 2020 to December 31, 2020 as follows:

Wastewater Requisition (2020 Net budget & 2018 Reconciliation)				
Municipality	2020 Net Budget Allocation (\$)	2018 Reconciliation (\$)	Total (\$)	Monthly (\$)
Fort Erie	8,043,911	(189,542)	7,854,369	654,531
Grimsby	3,740,290	72,923	3,813,213	317,768
Lincoln	2,948,685	23,238	2,971,924	247,660
Niagara Falls	15,113,526	(711,135)	14,402,391	1,200,199
Niagara-on-the-Lake	3,185,401	114,819	3,300,220	275,018
Pelham	1,379,048	(83,549)	1,295,498	107,958
Port Colborne	4,544,117	159,962	4,704,079	392,007
St. Catharines	21,916,001	448,367	22,364,368	1,863,697
Thorold	3,899,808	300,668	4,200,476	350,040
Welland	11,012,336	(192,335)	10,820,001	901,667
West Lincoln	1,237,572	56,585	1,294,157	107,846
Total	77,020,694	-	77,020,694	6,418,391

5. That the Treasurer of the Regional Corporation shall submit similar invoices on or before the 15th day of each month commencing February 15, 2020 for the monthly requisition. Such monthly invoices shall continue thereafter until December monthly requisition has been invoiced. Each lower-tier municipality shall remit the amount on each such invoice to the Treasurer of the Regional Corporation on or before the last business day of the month in which such invoice is submitted.
6. That in the event of default of payment of any monies payable under this by-law by the lower-tier municipality, interest at the rate of 15 per cent per annum shall be added to the amount in arrears from the date of default until the date of payment thereof.
7. That this by-law shall come into force and effect on January 1, 2020

THE REGIONAL MUNICIPALITY OF NIAGARA

James Bradley, Regional Chair

Ann-Marie Norio, Regional Clerk

Passed: December 12, 2019