

Subject: 2019 Capital Budget

Report to: Budget Review Committee

Report date: Thursday, January 10, 2019 Thursday, February 14, 2019

#### Recommendations

1. That the 2019 Capital Budget for the Niagara Regional Departments and Agencies, Boards and Commissions of \$273,939,966 \$274,283,966 as per Appendix 1 to Report CSD 1-2019, **BE APPROVED IN PRINCIPLE** pending final by-law approval anticipated to be on February 28, 2019 and subject to approval of the Niagara Regional Transit separate levy being considered with the 2019 operating budget;

- 2. That financing in the amount of \$248,911,706 \$249,255,706 gross and \$227,101,255 \$227,445,255 net BE INITIATED upon approval of the 2019 Capital Budget and BE ALLOCATED to the projects as summarized in Appendix 2 to Report CSD 1-2019; and
- 3. That the necessary by-laws **BE PREPARED** and **PRESENTED** to Council for consideration to coincide with the approval of the operating budget.

### **Key Facts**

- The 2019 capital budget totals \$273.94 \$274.28 million and includes 168 167 projects of which 161 with an estimated cost of \$248.91 \$249.25 million are supported by a full capital data sheet and are proposed to be initiated concurrently with the approval of the 2019 Capital Budget (Appendix 2). Six capital projects totalling \$25.03¹ million will be brought forward for initiation at a later date once further information is available (Appendix 3). Budget detail including data sheets can be accessed through the eScribe meeting site under 2019 Budget Detail.
- The proposed 2019 Capital Budget can not be funded within 2% guidance as a result of significant one-time projects. A separate levy of 2.3% will be requested to support Niagara Regional Transit (NRT) operating and capital costs, of which 0.4% (\$1.388 million) is to support the debt charges for NRT capital.
- In 2020, the Capital Budget will require an additional separate levy to support Long Term Care Redevelopment. The total 2019 Capital Budget and 9-year capital forecast is currently estimated to be \$2.7 billion (Appendix 4).
- Should the operating budget deliberation not approve the amounts in excess of guidance; a deferral or reduction of \$13.9 million or 5.1% of the 2019 gross levy capital program to be within 2% guidance will be required.

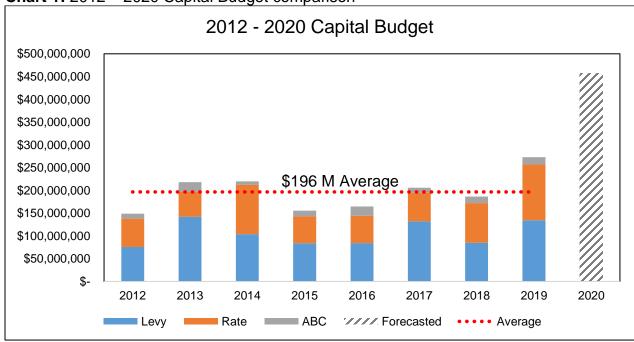
<sup>&</sup>lt;sup>1</sup> On January 17 2019 Council approved CL-C-2019 – NRH-2-2019 which initiated the project J\_200001031.

- Niagara Regional Housing budget has been approved by the Board. Niagara Regional Police Services Capital Budget is a draft subject to board approval on January 16<sup>th</sup>.
- This report was revised to accommodate for the Project J\_20001038: Transportation Infrastructure Means Protection following the recommendations from PHD 03-2019 and BRC-C 1-2019.

#### **Financial Considerations**

The proposed 2019 Capital Budget of \$273.94 \$274.28 million (\$151.59 \$151.93 million levy capital budget and \$122.35 million rate capital budget) is included in Appendix 1. The 2019 capital budget is the Region's largest request to date.





The 2019 Capital Budget being presented is fully funded as a result of the following:

- Review of existing projects to either reduce budgets or close projects. These efforts totaled to \$8 million from 35 projects.
- Use of capital reserves, including drawing down the General Capital Levy and Infrastructure Deficit Reserve
- Increase in gross debt charges of no more than 2% per year, in order to balance the impact of debt charges on the operating budget (subject to Council's approval).
- Total consolidated authorized debt (Regional and Local), throughout 2019 and forecast period, to remain below 118% of Niagara Region's operating revenues. If the ratio of issued debt to operating revenue surpasses 120% or total consolidated debt surpasses \$1 billion (determined by Standard and Poor's (S&P)), there is a risk of downgrade in the Region's credit rating.
- The total debt charges, throughout 2019 and forecast period, are projected to remain below 11% of the Niagara Region's own source revenues based on forecasted debt issuances. The maximum ratio of debt charges to own source revenue (annual repayment limit – ARL) set by the Province is 25%.
- Debt financing is applied to projects/assets that have a longer life span (i.e. 30 years). Debt terms do not exceed the expected useful life of the asset.
- Maximizing the usage of the development charges for growth related projects.
- Departmental leadership in collaboration with the Corporate Leadership Team
  also reviewed the 2019 capital request and prioritized projects based on criteria
  such as: alignment to AMP, supporting growth, council priorities, project risk,
  operating benefits and ability to leverage external financing.

# A reconciliation to incorporate the recommendations of PHD 3-2019 and BRC-C 1-2019 are as follows:

Description	Gross Request	Reserve	Development Charges	Debt, Federal Gas Tax and other
Original Gross Request	\$273,939,966	\$132,387,466	\$57,031,300	\$84,521,200
Deferral and reductions:				
J_20000929 Geneva/Carlton	(1,000,000)	(500,000)	(500,000)	-
J_20000927 Thorold Yard Upgrades	(1,500,000)	(960,000)	(540,000)	-
J_20000912 Roads Resurfacing	(1,156,000)	(1,040,000)	(115,600)	-
Additions	, , ,	, , ,	, , ,	
J_ 20001038 Transpt. Infra. Means Prot.	4,000,000	4,000,000	-	-
Revised Gross Request	\$274,283,966	\$133,887,066	\$55,875,700	\$84,521,200

The funding sources for the Capital Budget are shown in Table 1.

Table 1: 2019 Capital Funding Sources

	Levy	Rate	Total
Regional Funding:			
Reserves*	\$ 44, <del>627,066</del>		\$128,678,466
	\$ 46,126,066	\$84,052,400	\$130,179,066
Infrastructure Deficit Reserves	3,708,000		3,708,000
Debentures	27,774,804	33,110,000	60,884,804
	77,109,870		<del>193,272,270</del>
	77,609,470	117,162,400	194,771,870
External Funding:			
Area Municipalities	3,025,000		3,025,000
Federal Gas Tax	10,300,000	3,000,000	13,300,000
Other External	2,511,396	4,800,000	7,311,396
	15,836,396	7,800,000	23,636,396
Development Charges	<del>38,469,200</del>		<del>57,031,300</del>
	37,313,600	18,562,100	55,875,700
Total	<del>\$130,415,466</del>		<del>\$273,939,966</del>
	\$130,759,466	\$143,524,500	\$274,283,966

<sup>\*</sup> The environmental centre expansion project, \$21.17M is a project managed by the Facilities division but funded by the Rate programs

The budget provides for the full cost of the projects however actual cash flows may extend over multiple years. The operating budget impact of the 2019 Capital Budget is provided for at the time the capital budget is approved. This is to ensure that no capital project approved in one year will pre-encumber a future budget year or Council. For projects that include debt as a funding source, it is necessary for the operating budget to support the implied debt charges (interest and principal payments) at the time of capital budget approval. Debt financing is not issued until the project is substantially complete which may create a timing difference and any resulting variance is held in the capital levy reserve. The timing differences present an opportunity to reinvest these capital levy dollars in future infrastructure.

### 9 Year Forecast Financing Strategy

Key assumptions used in building the 2020-2028 forecast include:

- Interest rates on issued debentures averaged 3.20% for the July 2018 25-year debenture issuance. Interest rate assumptions used in the forecast are based on the general economic forecast that interest rates will begin to rise from a low of 2.5% for 5-year debt in 2019 to a high of 5.25% for 30-year debt in 2028.
- The 10-year Water and Wastewater financial plan prepared to comply with the Safe Drinking Water Act which requires a combined rate increase of 5.20% per year.
- Significant use of capital reserves as shown in the forecast of capital reserve balances in Appendix 5.

The current 10-year infrastructure deficit is estimated at \$481 million. The forecast does not assume the usage of debt to fund the infrastructure deficit. This amount changes every year due to the timing of projects and new funding assumptions. Some examples of changes from the prior year forecast are:

- The 10-year Water and Wastewater financial plan will utilize \$112 million of debt to address the Municipal water licensing program
- External grant funding estimated at \$80 million required but unconfirmed for construction of new South Niagara Falls Wastewater Treatment Plant as per Master Plan.
- Forecasted future Long Term Care Campus of \$98 million in 2028

#### **Debt Strategy**

Debt is an important capital financing tool to assist in funding capital projects. The projects that are being financed through \$60.9 million in debt are shown in Table 2 and will be leveraging debt for the following reasons:

- Large project costs are spread out over their useful life
- Infrastructure costs will be paid by future beneficiaries of the asset
- Historical budget increases for reserve contributions to sustain existing infrastructure have not been adequate.

Table 2: 2019 Debt-financed Projects

Project	Debt	Funding	Council Priority
Niagara Regional	\$11.9 million	Separate levy	Moving People and
Transit			Goods
Water and Wastewater	\$33.1 million	Within guidance	Advance Organization
Infrastructure			Excellence
Niagara Regional	\$10.2 million	Within guidance	Building a Labour-ready
Housing			forecast
Various Bridge	\$5.7 million	Within guidance	Moving People and
Reconstruction			Goods
Total	\$60.9 million		

Debt financing of \$60.9 million is proposed to balance the 2019 Capital Budget. The impact of the request will place Niagara below the average of comparable Regions in 4 of the 6 debt metrics identified in Table 3. The information on the Financial Information Return below represents actual debt issued with the exception of the S&P ratio.

Table 3: Debt Metrics

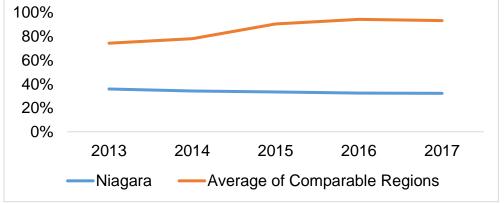
Metric		Current State	W	roposed rith 2019 Budget	Average of Comparable Regions*		
Debt as a % of Operating Revenues		37.0%		44.0%		57.0%	
Debt as a % of Reserves & Reserve Funds		86.0%		101.0%		85.0%	
Debt per Capita	\$	754.95	\$	887.63	\$	1,148.51	
Debt per Household	\$	1,742.96	\$	2,049.28	\$	3,553.93	
S&P Ratio of Total Region and lower tier Debt to Operating Revenue**		81.0%		89.0%		70.5%	
Annual Repayment Limit (ARL)		8.0%		8.0%		9.3%	

Source: Ministry of Municipal Affairs Financial Information Return

#### **Reserve Strategy**

Each year the Ministry of Municipal Affairs and Housing reviews a number of financial metrics for all municipalities. One of these metrics is "Total Reserves and Discretionary Reserves as a % of Operating Revenues". Chart 2 demonstrates that Niagara Region's reserve levels are lower than its provincial comparators. Niagara Region has maintained its reserves at relatively the same levels for the six-year period from 2013 to 2017 therefore the use of debt to finance capital is necessary to support our asset management plan. The forecasted 10-year reserve balance is provided in Appendix 5.

Chart 2: Total Reserves and Discretionary Reserves as a % of Operating Expenses



Source: Ministry of Municipal Affairs Financial Information Return

<sup>\*</sup> The comparable regions are Durham, Halton, Peel, York and Waterloo

<sup>\*\*</sup>Waterloo does not use S&P as their credit agency and thus was not included for this analysis

<sup>\*</sup> The comparable regions are Durham, Halton, Peel, York and Waterloo

#### 1% Infrastructure Deficit Reduction Reserve

As part of the 2017 budget, Council approved the creation of an Infrastructure Deficit Reduction (IDR) reserve through a 1% increase on the levy. The establishment of the IDR reserve was the first step in a long-term capital financing strategy to reduce the infrastructure funding gap. In accordance with the requirements of the Asset Management Plan (AMP) discussed below, the Region is proposing the use of the IDR reserve as a funding source of the 2019 Capital Budget. To support growth in the region, staff recommends using the IDR to fund the Region's share (non-growth related portion) on projects as provided in Appendix 6.

### **Analysis**

The proposed projects in the 2019 Capital Budget are based on information contained in the Asset Management Plan, updated based on current condition assessments, age-based analysis, employee identified concerns, current service standards and the Transportation Master Plan, Water Wastewater Master Servicing Plan, and Municipal Comprehensive Review and staff capacity to complete current and previously approved projects.

### **Supporting Growth**

In the 2019 Capital Budget, \$57 \$56 million or 20.9% of the gross request has been identified as growth related eligible to be financed through development charges (DCs) under the current DC background study. The 5-year historical average of DC usage has been approximately \$20 million. The 10-year forecast will be utilizing on average \$47 million. Based on the current projection Wastewater development charge reserves will be fully utilized over the forecast period. This is reflective of the investment in growth. The following projects supporting job creation and attraction of new residents are funded with development charges:

**Table 4:** Highest Growth projects

Project	Gross Budget	Population Affected and Job's created	Supports GO
Martindale Road Reconstruction*	\$16.1 million	4,200	Yes
Casablanca Boulevard Widening*	\$10.0 million	6,620	Yes
Grimsby Water Treatment Plant	\$11.5 million	38,400	No
System Storage			
Thorold Stone Road Extension*	\$6.0 million	3,010	Yes

<sup>\*</sup> Source: St. Catharines Secondary Plan, Grimsby Secondary plan and the Niagara Falls Station Area plan

### **Status of Previously Approved Capital (Work in progress)**

Each years' capital budget request is cognizant of the capacity and resources available to manage both the existing capital projects as well as those proposed. Due to the multi-year nature of many capital projects there is always some approved capital budget for future year cash flow of the projects as noted below however the unspent amount is relatively stable reflective of an average three year life cycle for large capital projects from design through to construction completion. The increase in 2018 is related primarily to a number of large water and wastewater projects that were delayed for a number of unforeseen circumstances however significant progress has been made in Q4 of 2018.

- Q3 2018 37% budget remaining on \$1,116 million approved budget
- Q3 2017 33% budget remaining on \$1,053 million approved budget
- Q3 2016 30% budget remaining on \$926 million approved budget

The above prior year budgets would have included budget estimates for the NRPS D1 Facility and Burgoyne Bridge projects. Additional forthcoming requests as described in the following reports have not been included in the proposed 2019 Capital Budget as they are anticipated to be accommodated through the Capital Variance Project:

- CSD 13-2019: Niagara Regional Police Services 1 District Facility requesting \$3,795,841
- PHD 3-2019: Burgoyne Bridge requesting an additional amount to be determined for safety barriers

Staff continue to review existing projects on a quarterly basis for timely closure and/or identification of excess funding. In addition, there has been collaboration with the Project Management office to implement project best practices and techniques across the organizations.

#### Asset Management Plan

In 2017, the Region completed and Council approved a comprehensive Asset Management Plan. This AMP is a long range planning document that supports the Region's vision and priorities to sustain Niagara's infrastructure.

The detailed information available in this AMP was utilized in the 2019 budget cycle to validate all proposed capital projects identified as the replacement of existing assets, as summarized in Appendix 7. In the current year, 60% (2018 – 49%) of the projects are directly attributable to the AMP.

The AMP identified a \$73 million annual gap between what the Region's 10-year capital budget plan and the required investment to sustain the Region's assets.

The \$73 million annual gap was mainly caused by Water and Wastewater's asset portfolio and will be addressed in the 10-year Water and Wastewater financial plan. In order to alleviate pressures on the rate from the AMP, the plan will spread the backlog of projects over 50 years and propose a funding strategy.

#### Risks

The risks associated with the proposed capital and financing strategy are:

- Increasing use of debt and reserves will result in an increase in the Region's netdebt position. This may reduce the Region's financial flexibility and could lead to higher borrowing costs.
- Any use of regional sources of funding to growth related projects further erodes the ability to sustain the service level of current infrastructure.
- The Region retained an external project management consultant, which provided
  a detailed analysis on assessing the ability of current project managers and
  support resources in select departments. One of the finding was that divisions do
  not have adequate labour resources to complete open projects. There is an
  ongoing project with the development of the Project Management Centre of
  excellence to address this finding.
- The Region continues to increase the alignment of the Capital budget with the asset management plan. If the Region deviates from the asset management plan, this may result in deferred investment, equipment failure, reactive capital spending and higher costs.

#### **Alternatives Reviewed**

No alternatives were reviewed.

### **Relationship to Council Strategic Priorities**

The 2019 Capital Budget supports an environment that contributes to economic prosperity. See Appendix 8 for a list of projects aligned to Council's Strategic Priorities summarized as follows.

- 60% investment in organizational excellence is primarily focused on the sustainment of existing infrastructure and service levels.
- 34% investment in moving people and goods is focused on the creation of new infrastructure to support growth and provide additional capacity and enhancements to the existing levels of service.
- 5% investment in building a labour ready workforce and is focused on increasing access to affordable housing which is an important factor in obtaining employment.

### **Other Pertinent Reports**

Regional Debt Risk Management Framework
Funding for Barriers
Asset Management Plan
2019 Budget Planning
PM Resource Assessment Report
Asset Management Governance
Regional Development Charges and Proposed By-law
Niagara 2041 Growth Strategy - Local Municipal Growth Allocations
Preventing Deaths by Suicide on Public Infrastructure
2016 Water & Wastewater Master Servicing Plan Update
Niagara Region Transportation Master Plan

Prepared by:

Helen, Chamberlain

Director

Financial Management and Planning

Recommended by:

**Todd Harrison** 

Commissioner / Treasurer

Enterprise Resource Management

Services

Culturalities of leave

### Submitted by:

Ron Tripp, P.Eng

Acting Chief Administrative Officer

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### **Appendices**

Appendix 1 REVISED	2019 Capital Budget Summary by Department with Funding
Appendix 2 REVISED	2019 Capital Projects Initiated Concurrent with Budget Approval
Appendix 3	2019 Capital Projects for Future Initiation
Appendix 4 REVISED	2019 – 2028s Capital Budget and Nine Year Forecast
Appendix 5	Forecasted Capital Reserve Balances
Appendix 6	Projects Allocated 1% Infrastructure Deficit Reduction Funding
Appendix 7 REVISED	Alignment with the Asset Management Plan

Appendix 7 REVISED Alignment with the Asset Management Plan Appendix 8 REVISED Alignment with Council Strategic Priorities

Appendix 9 Treasurer's Certificate

Program	Gross Capital Request	Reserves	Debt	Development Charges	Federal Gas Tax	Local Area Municipality	Other External
Community Services	1,807,816	1,807,816	-	-	-	-	-
Corporate Services	26,776,500	26,776,500	-	-	-	-	-
Enterprise Resource Mgmt Serv	100,000	100,000	-	-	-	-	-
Niagara Regional Housing	13,915,419	1,522,285	10,206,838	674,900	-	-	1,511,396
NRPS	3,088,500	3,088,500	-	-	-	-	-
Planning & Development	685,000	685,000	-	-	-	-	-
Public Health Emergency Serv	2,201,231	2,201,231	-	-	-	-	-
	-103,018,000	<del>33,330,734</del>	<del>17,567,966</del>	<del>37,794,300</del>	-10,300,000	<del>3,025,000</del>	<del>-1,000,000</del>
Public Works - Levy	103,362,000	34,830,334	17,567,966	36,638,700	10,300,000	3,025,000	1,000,000
Waste Management	6,825,000	6,604,900	-	220,100	-	-	-
Wastewater Operations	52,391,000	24,158,000	19,226,000	6,007,000	3,000,000	-	-
Water Operations	63,131,500	32,112,500	13,884,000	12,335,000	-	-	4,800,000
Grand Total	274,283,966	133,887,066	60,884,804	55,875,700	13,300,000	3,025,000	7,311,396

#### 2019 Capital Projects Initiated Concurrent with Budget Approva

Project   Proj	2019 Capital Projects	Initiated Concurred	nt with Budget Approval							
	Program	Project ID	Project Name		Reserves	Debt		Federal Gas Tax		Other External
1	Community Services	1 20000000	LTC Hamas 2010 Ped Perlacement		75,000	-	-	-	-	-
				227 200	207 200					
\$\frac{2}{0.0000000000000000000000000000000000							-	•	•	•
\$2,000000000000000000000000000000000000						-	-	-	-	-
Community Services     1,897,816   1,897						-	-		-	-
Today 1		J_20000926	LTC Homes - 2019 Root Replacement			-	-	-	-	-
				1,807,816	1,807,816	-	•	•	•	-
				20,000	20,000	-	-	-	-	-
James										
				40,000		-	-	-	-	-
		J_20000933	2019 Annual Application Lifecycle Replacement	300,000	300,000	-	-	-	-	-
\$\frac{1}{2} \frac{2}{2} \fr		J_20000935	2019 IT Asset Replacement	2,288,000	2,288,000	-	-	-	-	-
1,2000042   Bidg in 2019 Region HO Space Acc   1,000,000   1,000		J_20000939	2019 Annual - Code and Legislative Compliance Program	100,000	100,000	-	-	-	-	-
1,20000937   Chillie Devision Plane   170,000   70,000		J_20000941	2019 Annual - Energy Conservation Program	200,000	200,000	-	-	-	-	-
1,20000937   Chillie Devision Plane   170,000   70,000		J 20000942	Bldg Int-2019 Region HQ-Space Acc	100,000	100,000	-		-	-	-
1_20000993   Project Profit Namagement Software   250,000   20,000										
\$   \$   \$   \$   \$   \$   \$   \$   \$   \$										
\$\frac{1}{2}\$   \$\frac{1}{2}						_		_	_	_
						-	•		-	
1,2000978   19-80g						-	-	-	-	-
Comparted Services   19-94tg Ex-NRPS-Quin Range Roof Design						-	-	-	-	-
Corporate Services   Total First Paramount   Total F							-	-	-	-
Treat Emprise Resource   J. 20000945   2019 Mioc Levy Properties   100,000		J_20000979	19-Bldg Ext-NRPS-Gun Range Roof Design					-	-	-
Enterprise Resource   Jobbs   2019 Misc Lety Properties	Corporate Services			5,599,500	5,599,500	-	-	-	-	-
Bergrisk Resource   Mint Service   100,000				100,000	100,000	-	-	-	-	-
Embry Resource   100,000	Mgmt Serv	1 20000045	2040 Mire Law Drawning							
Name	Fatamaia - Danasaa	J_20000945	2019 MISC Levy Properties	400,000	400 000					
Mousing   J_2000680   NRPH - Multi-Residential InternalCouldro - Nagara Falls   J_2000691   NRPH - 2019 - Annual Emergency Capital Program   5.355.404   413.704   4.500.719				100,000	100,000	•	•	•	-	
Jacobs   NRH-2016 Annual Unit Capital Program   5.355,404   413,704   4,50,719				810,000	135,100	-	674,900	-	-	-
1,00000919   NRH - 2019 - Annual Emergency Capital Program	Housing		NRH - Multi-Residential Intensification - Niagara Falls							
1,20000920   NRH-2019-Annual Gounde Capital Program   912,842   70,517   789,318			NRH - 2019 Annual Unit Capital Program	5,355,404		4,630,719	-	-	-	310,981
NRBagra Regional Housing Total   1,264,1769   1,264,5769   1,266,978   1,266			NRH - 2019 - Annual Emergency Capital Program	200,000		-	-	-	-	-
Nagar Regional Housing Total   1,281,159   1,246,970   10,206,388   674,900		J_20000920	NRH - 2019 - Annual Grounds Capital Program	912,842	70,517	789,318	-	-	-	53,007
Nagara Regional Housing Total   1,246,970   10,206,388   674,990		J_20000921	NRH - 2019 Annual Building Capital Program	5,535,913	427,649	4,786,801	-	-	-	321,463
NRPS	Niagara Regional			12,814,159	1,246,970	10,206,838	674,900	-	-	685,451
J. 20001098		J 20000997	NRPS - Annual Vehicle Replacements (2019)	1,400,000	1.400.000	_				-
J 20001009 NRPS - RTOC CCTV Equipment (2019)									-	
\$\begin{array}{c ccccccccccccccccccccccccccccccccccc										
J. 20001010						_			_	-
1,20001002   NRPS - Bornb Sult Replacements (2019)   30,000   30,000										
1,2001003   NRPS - Fronge Scanner (2019)   75,000   75,000									-	-
March   Marc								•	-	
\$\frac{1}{2}0001006								-	-	-
MRPS - Respiratory Protection Systems (2019)   36,000   36,000   -   -   -   -   -								-	-	-
\$\frac{1}{20000999}							-	-	-	-
\$\frac{1}{2}0001008							-	-	-	-
NRPS   Total   3,088,500   3,088,500						-	-	-	-	-
Planning &   Development   J_20000515   Civic Park and International Plaza   685,000   685,000   -   -   -   -   -   -   -   -		J_20001008	NRPS - Prisoner Restraint Systems (2019)			-	-	-	-	
Development   Jacob   Civic Park and International Plaza   September   Total   Public Health   Emergency Serv Total						-	-	-	-	-
Planning &				685,000	685,000	-	-	-	-	-
Development Total   Public Health   Emergency Serv   J_20000891   2019 Annual - EMS - Ambulance and Equipment Replacement	Development	J_20000515	Civic Park and International Plaza							
Public Health   Emergency Serv   J_20000891   2019 Annual - EMS - Ambulance and Equipment Replacement   2,201,231   2,201,231	Planning &			685,000	685,000	-			-	-
Public Works - Levy   J_10RC0627   Rd Rehab - RR38 Martindale Rd - QEW to Fourth Reconstruction   16,100,000   2,115,000   - 11,985,000   - 2,000,000	Development Total									
Public Health   Emergency Serv Total	Public Health			2,201,231	2,201,231	-	-	-	-	-
Public Works - Levy   J_10RC0627   Rd Rehab - RR38 Martindale Rd - QEW to Fourth Reconstruction   16,100,000   2,115,000   - 11,985,000   - 2,000,000     J_10RC1329   Cpcty Imprv - Casablanca Blvd Widening - Livingston to QEW   10,000,000   1,500,000   - 8,500,000   - 8,500,000   5,100,000     J_10RC1546   Cpcty Imprv - Glendale Ave Interchange at QEW   6,000,000   900,000   - 562,500   187,500   5,100,000     J_10RC1567   Rds Rehab - Riverside Dr. Reconstruction - Prince Charles Dr. to Lincoln   3,950,000   3,060,000   - 340,000   - 340,000   - 550,000     J_2000319   St. Davids Road East (from Hwy 406 to Collier Rd)   5,168,000   4,376,200   - 516,800   - 516,800     J_2000494   IMT - Capital Acquisition   13,900,000   2,064,534   11,835,466	Emergency Serv	J_20000891	2019 Annual - EMS - Ambulance and Equipment Replacement							
10RC1329   Cpcty Imprv - Casablanca Btvd Widening - Livingston to QEW   10,000,000   1,500,000   - 8,500,000		ı		2,201,231	2,201,231	-	-	-	-	-
10RC1329   Cpcty Imprv - Casablanca Btvd Widening - Livingston to QEW   10,000,000   1,500,000   - 8,500,000	Public Works - Levy	J 10RC0627	Rd Rehab - RR38 Martindale Rd - QEW to Fourth Reconstruction	16,100,000	2.115.000		11.985 000		2,000,000	_
10RC1554   Cpcty Imprv - Glendale Ave Interchange at QEW   6,000,000   900,000   - 5,100,000   - 5						_		_	_,,,	_
Direct 1666   Struc Rehab - St. Paul W CNR Bridge - Bridge Replacement   750,000 - 562,500   187,500 - 50,000   187,500 - 50,								<u>-</u>	<u>-</u>	<u>-</u>
J-10RC1567         Rds Rehab - Riverside Dr. Reconstruction - Prince Charles Dr. to Lincoln         3,950,000         3,060,000         -         340,000         -         550,000           J_20000319         St. Davids Road East (from Hwy 406 to Collier Rd)         5,168,000         4,376,200         -         516,800         -         275,000           J_2000494         IMT - Capital Acquisition         13,900,000         2,064,534         11,835,466         -         -         -         -           J_10RC0816         Cpcty Imprv-Recon RR 57 (Thorold Stone Rd) ext east of Stanley Ave         6,000,000         900,000         -         5,100,000         -         -         2,500,000         -           J_2000141         Int Impry RR 20 - Industrial Park Dr to Townline Rd (Phase 3)         3,000,000         500,000         -         -         2,500,000         -					500,000	562 500			<u>-</u>	
J_20000319         St. Davids Road East (from Hwy 406 to Collier Rd)         5,168,000         4,376,200         -         516,800         -         275,000           J_20000494         IMT - Capital Acquisition         13,900,000         2,064,534         11,835,466         -         -         -         -           J_20000410         Cpcty Imprv-Recon RR 57 (Thorold Stone Rd) ext east of Stanley Ave         6,000,000         90,000         -         5,100,000         -         -         2,500,000         -           J_20000141         Int Imprv RR 20 - Industrial Park Dr to Townline Rd (Phase 3)         3,000,000         500,000         -         -         2,500,000         -					3 060 000	302,300		-	550 000	
J 20000494         IMT - Capital Acquisition         13,900,000         2,084,534         11,835,466         -         -           J 20000418         Cycly Imprv-Recoo RR 57 (Thoroid Stone Rd) ext east of Stanley Ave         6,000,000         900,000         -         5,100,000         -           J 20000141         Int Imprv RR 20 - Industrial Park Dr to Townline Rd (Phase 3)         3,000,000         500,000         -         -         2,500,000         -						-		-		
J_10RC0816         Cpcty Imprv-Recon RR 57 (Thorold Stone Rd) ext east of Stanley Ave         6,000,000         900,000         -         5,100,000         -         -           J_20000141         Int Imprv RR 20 - Industrial Park Dr to Townline Rd (Phase 3)         3,000,000         500,000         -         -         2,500,000         -						44.005.405	516,800	-	2/5,000	-
J_2000141 Int Imprv RR 20 - Industrial Park Dr to Townline Rd (Phase 3) 3,000,000 500,000 2,500,000						11,835,466		-	-	-
J_20000141         Int Imprv RR 2U - Industrial Park Dr to Townline Rd (Phase 3)         3,000,000         500,000         -         2,500,000         -           J_20000658         Struc Rehab - Mewburn Road @ CNR Tracks         2,000,000         -         300,000         1,700,000         -         -						-	5,100,000		-	-
J_20000658 Struc Rehab - Mewburn Road @ CNR Tracks 2,000,000 - 300,000 1,700,000		J_20000141			500,000	-	-	2,500,000	-	-
		J_20000658	Struc Rehab - Mewburn Road @ CNR Tracks	2,000,000	-	300,000	1,700,000	-	-	-

	J_20000660	Rd Rehab - RR56 Burleigh Hill - Glendale Ave to St. David's Rd	1,800,000	1,620,000	-	180,000	-	-	-
	J_20000663	Struc Rehab - 20 Mile Arch - (Str. 081210) - Replace	4,520,000	-	4,520,000	-	-	-	-
	J_20000664	Struc Rehab - Hydro Canal Bridge North (Str. 020230)	350,000	-	350,000	-	-	-	-
	J_20000681	Int Improv RR20 - S Grimsby Rd 5 to Griffin St (Phase 2)	3,600,000	400,000	-	-	3,000,000	200,000	-
	J_20000913	Rds Equip Prgm - Equipment Upg	200,000	200,000	-	-	-	-	-
	J_20000915	Rds Fac Prgm - Patrol Yard Imprv	1,000,000	640,000	-	360,000	-		-
	J_20001038	Transportation Infrastructure Means Protection	4,000,000	4,000,000					
	J_20000904	Annual - Guide Rail Improvement Program	200,000	200,000					
	J_20000909	Annual - Railway Crossing Improvement Program	100,000	100,000					
	J 20000911	Annual - Storm Sewers & Culvert Program	1,000,000	1,000,000					
					•	75.000	•		-
	J_20000905	Annual - Illumination Installation & Upgrade Program	750,000	675,000	-	75,000	-		-
	J_20000910	Annual - Traffic Signal Program	2,100,000	1,890,000	-	210,000	•		-
	J_20000895	Int Imprv - RR 24 Victoria Ave at RR 63 Canboro Road, WL and RR27 East Main at RR84 Moyer, WE	200,000	200,000	-	-	-	-	-
	J_20000896	Rds Rehab - RR 43 Bridge St - Victoria Ave to Erie	500,000	500,000	-	-	-	-	-
	J_20000897	Rds Rehab RR20 - Griffin St South to Industrial Park Rd (Phase 4)	500,000	450,000	-	50,000	-	-	-
	J_20000898	Rds Rehab - RR 72 Louth St -RR 81 St. Paul West to Crestcomb	500,000	300,000	-	200,000	-	-	-
	J 20000899	Struc Rehab - Seventh St Bridge (034205)	200,000	200,000	-	-		-	-
	J 20000900	Rds Rehab - RR 81 Main St - Oakes Rd N to Casablanca Blvd	250,000	225,000		25,000	-		
	J_20000906	Annual - Engineering for Future Projects	400,000	400,000					
	J 20000908	Annual - Miscellaneous Road Properties	200,000	200.000					
					•	004.400	4 000 000		
	J_20000912	Rds Rehab - Roads Resurfacing	8,844,000	3,159,600	•	884,400	4,800,000	<del>-</del>	
	J_20000914	Struc Rehab - Engineering Studies for Future Bridge Projects	200,000	200,000	-	-	-	-	-
	J_20000916	Ann_Prog-2019 Crack Sealing	250,000	250,000	-	-	-	-	-
	J_20000917	Struc Rehab - Structural Rehabilitation Program- Construction	1,000,000	1,000,000	-	-	-	-	-
	J_20000907	Annual - Fleet Vehicle & Equipment Replacement Program	800,000	800,000	-	-	-	-	
	J_20000928	Int Impr - RR100 Four Mile Creek @ York Rd, NOTL	250,000	125,000	-	125,000		-	-
	J_20000930	Rds Fac Prog-Traf Cntrl Cntre	250,000	250,000	-	-			
	J_20000936	Annual - 2019 Survey Equipment Replacement	30,000	30,000					
	J_20000936	Multi-Use Path- Sir Isaac Brock Way, Merrittiville to 406	250,000	250,000	-	-	-		
Public Works - Levy	3_20000000	wuru-ose r auf- Sii Isaac Diook vyay, wernuviile to 400	101,112,000	34,680,334	17,567,966	35,538,700	10,300,000	3,025,000	-
Total			101,112,000	34,660,334	17,567,966	35,536,700	10,300,000	3,025,000	-
Waste Management	J_10GL1515	Mountain Road - End Use Works	200,000	200,000		_	-		-
Waste management	J_20000170	Mountain Road - Leachate Collection System	110,000	110,000					
		NR-12 - Cell # 4							
	J_20000172		1,430,000	1,430,000	•	•	•	<u>-</u>	-
	J_10GL1218	Glenridge - Leachate Collection System Upgrades	910,000	910,000	-	-	-		-
	J_20000601	Line 5 - LCS Improvements	910,000	910,000	-	-	-	-	-
	J_20000885	2019 Misc. Enhancements & Replacements	150,000	150,000	-	-	-	-	-
	J_20000886	2019 Property Acquisition	110,000	110,000	-	-	-	-	-
	J 20000713	Bridge Street - Reuse Centre	180,000	66,600	-	113,400	-	-	-
	J 10GL1216	Pumping Station Upgrades - NR-12 & Park Rd	770,000	770,000				-	-
	J 20000171	NR-12 - Drop-Off Depot Improvements	180,000	123,300		56,700			
	J_20000883	NR-12 - Stormwater Management Pond Upgrades	605,000	605,000	_		_		-
	J 20000887	Mountain Road - Constructed Wetland	110,000	110,000	_				_
	J 20000892	Recycle-2019 Loader Replace	300,000	300,000					
				110,000		•	-	<u>-</u>	
	J_20000894	Recycle-2019 Build & Equip	110,000 250,000	250.000	•	•	-		
Wasta Managana	J_10GL1325	Quarry Road - Site Improvements		250,000					
Waste Management				C 4F4 000		470 400	-		
Total			6,325,000	6,154,900	•	170,100	-	-	
			6,325,000		711 000		-	-	
Wastewater	1 20000404	Product 181 Prime Challes Unavada		6,154,900	711,000	170,100 -	- -		
Wastewater	J_20000484	Bender Hill Pump Station Upgrade	<b>6,325,000</b> 711,000	-	711,000		· ·	-	
Wastewater	J_20000692	Mewburn Pump Station Upgrade	<b>6,325,000</b> 711,000 235,000		-		- - -	-	
Wastewater	J_20000692 J_20000711	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement	6,325,000 711,000 235,000 400,000	235,000	711,000		- - - -	÷ •	
Wastewater	J_20000692 J_20000711 J_20000475	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade	6,325,000 711,000 235,000 400,000 4,000,000	235,000 - 4,000,000	-			-	
Wastewater	J_20000692 J_20000711 J_20000475 J_20000192	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade	6,325,000 711,000 235,000 400,000 4,000,000 1,185,000	235,000	400,000	- - - -	-		
Wastewater	J_20000692 J_20000711 J_20000475	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade	6,325,000 711,000 235,000 400,000 4,000,000	235,000 - 4,000,000	-		-	:	
Wastewater	J_20000692 J_20000711 J_20000475 J_20000192	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade	6,325,000 711,000 235,000 400,000 4,000,000 1,185,000	235,000 - 4,000,000	400,000	- - - -	-		- - - - -
Wastewater	J_20000692 J_20000711 J_20000475 J_20000192 J_10SW1528	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning	6,325,000 711,000 235,000 400,000 4,000,000 1,185,000 12,000,000	235,000 - 4,000,000 1,185,000	400,000	- - - -			- - - - - -
Wastewater	J_20000692 J_20000711 J_20000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1264	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades	6,325,000 711,000 235,000 400,000 4,000,000 1,185,000 12,000,000 2,000,000 3,000,000	235,000 - 4,000,000 1,185,000 - 2,000,000	400,000 - - 8,400,000 -	3,600,000			- - - - - -
Wastewater	J_20000692 J_20000711 J_20000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1264 J_20000724	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrades Woodsview Pump Station Upgrades South Niagarar Falls Wastewater Treatment Plant	6,325,000 711,000 235,000 400,000 4,000,000 1,185,000 12,000,000 2,000,000 3,000,000 2,400,000	235,000 - 4,000,000 1,185,000 2,000,000 3,000,000	400,000	- - - -			- - - - - -
Wastewater	J_2000692 J_20000711 J_20000475 J_20000192 J_10SW1230 J_10SW1230 J_10SW1264 J_20000724 J_20000864	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck	6,325,000 711,000 235,000 400,000 4,000,000 11,185,000 12,000,000 2,000,000 3,000,000 2,400,000 500,000	235,000 - 4,000,000 1,185,000 - 2,000,000	400,000 - - 8,400,000 - 1,440,000	3,600,000	-		- - - - - - - -
Wastewater	J_20000692 J_20000711 J_20000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1264 J_20000864 J_20000870	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  2,400,000  500,000  360,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000	400,000 - - 8,400,000 -	3,600,000	- - - - - - - - - - - - - - - - - - -		-
Wastewater	J_20000692 J_20000711 J_20000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1264 J_20000724 J_20000870 J_20000870	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement 19-Master Meter Replacement	6,325,000 711,000 235,000 400,000 4,000,000 1,185,000 12,000,000 2,000,000 3,000,000 2,400,000 500,000 360,000 600,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000	400,000 - - 8,400,000 - 1,440,000	3,600,000			-
Wastewater	J_20000692 J_20000711 J_20000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1264 J_20000724 J_20000870 J_20000870 J_20000872 J_20000873	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  2,400,000  500,000  360,000  600,000  240,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 - 600,000 240,000	400,000 - - 8,400,000 - 1,440,000	3,600,000			- - - - - - - - - -
Total Wastewater Operations	J_20000692 J_20000711 J_20000475 J_20000192 J_10SW1528 J_10SW1528 J_10SW1264 J_20000724 J_20000864 J_20000870 J_20000872 J_20000873 J_20000873 J_20000874	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Security Improvement Program 19-Chemical System Upgrade	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  2,400,000  360,000  600,000  240,000  900,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 600,000 240,000 900,000	400,000 - - 8,400,000 - 1,440,000	3,600,000			-
Wastewater	J_2000692 J_20000711 J_20000475 J_20000475 J_10SW1528 J_10SW1230 J_10SW1264 J_20000724 J_20000874 J_20000872 J_20000873 J_20000873 J_20000874 J_20000875	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement Program 19-Chemical System Upgrade 19-Boiler Replacement Program	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  2,400,000  500,000  360,000  600,000  240,000  900,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 - 600,000 240,000 900,000	400,000 - - 8,400,000 - 1,440,000	3,600,000			
Wastewater	J_2000692 J_20000711 J_20000475 J_2000192 J_105W1528 J_105W1280 J_105W1284 J_2000874 J_2000874 J_2000873 J_2000873 J_2000875 J_2000877	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement Program 19-Boiler Replacement Program 19-Ochemical System Upgrade 19-Boiler Replacement Program 19-Ochemical System Program 19-Ochemical System Program 19-Odour Control System Program	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  2,400,000  500,000  360,000  600,000  240,000  900,000  240,000  240,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 600,000 240,000 900,000 900,000 900,000 240,000	400,000 - - 8,400,000 - 1,440,000	3,600,000			-
Wastewater	J_2000692 J_20000711 J_2000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1264 J_20000874 J_20000874 J_2000872 J_2000873 J_2000874 J_2000874 J_2000875 J_2000875 J_2000875 J_2000875	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement 19-Security Improvement Program 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement Program 19-Odour Control System Program 19-Odour Control System Program 19-Odour Control System Program 19-Odour System Program 19-Odour System Program 19-Odour System Program	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  2,400,000  360,000  240,000  900,000  900,000  240,000  300,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 240,000 900,000 900,000 240,000 300,000	400,000 - - 8,400,000 - 1,440,000	3,600,000			-
Wastewater	J_2000692 J_2000711 J_2000475 J_2000192 J_10SW1528 J_10SW1528 J_10SW1264 J_2000724 J_2000874 J_2000872 J_2000873 J_2000875 J_2000875 J_2000875 J_2000877 J_2000877	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement 19-Bodour Control System Program 19-Odour Control System Program 19-Odour Control System Program 19-Out Station Klosk Program 19-Out Station Klosk Program 19-Out Station Klosk Program	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  2,400,000  500,000  360,000  600,000  240,000  900,000  900,000  240,000  300,000  240,000  200,000  220,000  200,000  200,000  200,000  200,000  200,000  200,000  200,000  200,000  200,000  200,000  200,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 - 600,000 240,000 900,000 900,000 240,000 300,000 240,000 240,000 240,000 240,000 240,000 240,000 240,000	400,000 - - 8,400,000 - 1,440,000	- - - 3,600,000 - - 960,000 - - - - - - -			-
Wastewater	J_2000692 J_20000711 J_2000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1264 J_20000874 J_20000874 J_2000872 J_2000873 J_2000874 J_2000874 J_2000875 J_2000875 J_2000875 J_2000875	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement 19-Security Improvement Program 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement Program 19-Odour Control System Program 19-Odour Control System Program 19-Odour Control System Program 19-Odour System Program 19-Odour System Program 19-Odour System Program	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  2,400,000  360,000  240,000  900,000  900,000  240,000  300,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 240,000 900,000 900,000 240,000 300,000	400,000 - - 8,400,000 - 1,440,000	3,600,000			-
Wastewater	J_2000692 J_2000711 J_2000475 J_2000192 J_10SW1528 J_10SW1528 J_10SW1264 J_2000724 J_2000874 J_2000872 J_2000873 J_2000875 J_2000875 J_2000875 J_2000877 J_2000877	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement 19-Bodour Control System Program 19-Odour Control System Program 19-Odour Control System Program 19-Out Station Klosk Program 19-Out Station Klosk Program 19-Out Station Klosk Program	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  2,400,000  500,000  360,000  600,000  240,000  900,000  900,000  240,000  300,000  240,000  200,000  220,000  200,000  200,000  200,000  200,000  200,000  200,000  200,000  200,000  200,000  200,000  200,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 - 600,000 240,000 900,000 900,000 240,000 300,000 240,000 240,000 240,000 240,000 240,000 240,000 240,000	400,000 - - 8,400,000 - 1,440,000	- - - 3,600,000 - - 960,000 - - - - - - -	- - - - - - - - - - - - - - - - - - -		-
Wastewater	J_2000692 J_20000711 J_2000475 J_2000192 J_10SW1528 J_10SW1230 J_10SW1254 J_2000724 J_2000867 J_2000872 J_2000873 J_2000875 J_2000875 J_2000879 J_2000889 J_2000889 J_2000889 J_2000889	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Chemical System Upgrade 19-Doidour Control System Program 19-Odour Control System Program 19-Odour Control System Program 19-UwTP Digester & Sludge Management Program 19-UWTP Digester & Sludge Management Program 19-Decomission Old Central PS 19-Dain City Pump Station Forcemain Replacement	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  24,000,000  240,000  900,000  240,000  900,000  240,000  900,000  240,000  900,000  500,000  500,000  500,000  500,000  500,000  500,000  500,000  500,000  500,000  500,000  500,000  500,000  500,000  500,000  500,000  500,000  500,000	235,000 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 240,000 900,000 900,000 240,000 240,000 240,000 300,000 - -	400,000 - - 8,400,000 - - 1,440,000 - - 360,000 - - - -	- - - 3,600,000 - - 960,000 - - - - - - -			-
Wastewater	J_2000692 J_2000711 J_20000715 J_2000192 J_10SW1528 J_10SW1528 J_10SW1254 J_2000874 J_2000874 J_2000873 J_2000873 J_2000875 J_2000887	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement 19-Bour Replacement 19-Odour Control System Program 19-Out Station Kiosk Program 19-Out Station Kiosk Program 19-Out Station Kiosk Program 19-Decomission Old Central PS 19-Dain City Pump Station Forcemain Replacement 19-Dain City Pump Station Ipgrade	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  2400,000  360,000  600,000  240,000  900,000  240,000  240,000  900,000  240,000  500,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 - 600,000 240,000 900,000 900,000 900,000 300,000 240,000 300,000 2,050,000 63,000 - 295,000	400,000 - - 8,400,000 - - 1,440,000 - - 360,000 - - - -	- - - 3,600,000 - - 960,000 - - - - - - -			
Wastewater	J_2000692 J_20000711 J_2000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1254 J_2000724 J_2000867 J_2000872 J_2000872 J_2000873 J_2000874 J_2000874 J_2000875 J_2000875 J_2000875 J_2000876 J_2000876 J_20008860 J_20008878	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Odour Control System Upgrade 19-Boiler Replacement Program 19-Odour Control System Program 19-Odour Control System Program 19-Out Station Kiosk Program 19-Putstion Kiosk Program 19-Deromission Old Central PS 19-Dain City Pump Station Forcemain Replacement 19-Dain City Pump Station Forcemain Replacement 19-Dein City Pump Station Upgrade 19-Wellald WWTP Upgrade - Phase 2	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  240,000  900,000  240,000  900,000  240,000  900,000  240,000  900,000  240,000  900,000  240,000  20,050,000  90,000  2,050,000  90,000  2,575,000  295,000  2,400,000	235,000 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 240,000 900,000 900,000 240,000 240,000 240,000 300,000 - -	400,000 - 8,400,000 - 1,440,000 - 360,000 - - - - 2,775,000	- - - 3,600,000 - - 960,000 - - - - - - -			
Wastewater	J_2000692 J_20000711 J_2000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1264 J_2000874 J_2000872 J_2000872 J_2000873 J_2000873 J_2000874 J_2000875 J_20008874 J_20008875 J_20008875 J_20008875 J_20008875 J_20008876 J_20008861	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement Program 19-Odour Control System Program 19-Odour Control System Program 19-Odour Station Kiosk Program 19-WWTP Digester & Studge Management Program 19-Decomission Old Central PS 19-Dain City Pump Station Forcemain Replacement 19-Dain City Pump Station Upgrade 19-Welland WWTP Ugrade - Phase 2 19-Seaway WWTP Electrical Upgrade	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  360,000  600,000  240,000  900,000  240,000  900,000  240,000  5,775,000  295,000  2,400,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000  2,505,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 - 600,000 240,000 900,000 900,000 900,000 300,000 240,000 300,000 2,050,000 63,000 - 295,000	400,000 - 8,400,000 - 1,440,000 - 360,000 - - - - 2,775,000 - 295,000	- - - 3,600,000 - - 960,000 - - - - - - -			
Wastewater	J_2000692 J_2000711 J_20000715 J_2000192 J_10SW1528 J_10SW1528 J_10SW1254 J_2000864 J_2000872 J_2000873 J_2000873 J_2000875 J_2000886 J_2000886	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement Program 19-Odour Control System Program 19-Out Station Kiosk Program 19-Out Station Kiosk Program 19-Dut Station Forcemain Replacement 19-Decomission Old Central PS 19-Dain City Pump Station Ipgrade 19-Welland WWTP Ugrade - Phase 2 19-Seaway WWTP Electrical Upgrade 19-Seaway WWTP Electrical Upgrade 19-Seaway WWTP Electrical Upgrade 19-Seaway WWTP Electrical Upgrade	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  240,000  360,000  240,000  900,000  240,000  300,000  240,000  300,000  240,000  2050,000  240,000  2250,000  295,000  295,000  295,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 - 600,000 240,000 900,000 900,000 900,000 300,000 240,000 300,000 2,050,000 63,000 - 295,000	400,000	- - - 3,600,000 - - 960,000 - - - - - - -			
Wastewater	J_2000692 J_20000711 J_2000475 J_2000192 J_10SW1528 J_10SW1230 J_10SW1244 J_2000724 J_20000874 J_20000872 J_2000873 J_2000874 J_2000875 J_2000874 J_2000879 J_2000880 J_2000880 J_2000881 J_2000881 J_2000880 J_2000886	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement Program 19-Odour Control System Program 19-Odour Control System Program 19-Out Station Kiosk Program 19-PowWTP Digester & Sludge Management Program 19-Den City Pump Station Forcemain Replacement 19-Dain City Pump Station Forcemain Replacement 19-Delain WWTP Upgrade - Phase 2 19-Seaway WWTP Electrical Upgrade 19-Seaway WWTP Influent Channel 19-Replace Carleton Pump Station Forcemain	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  24,000,000  240,000  900,000  240,000  900,000  240,000  900,000  240,000  900,000  240,000  205,000  90,000  240,000  205,000  295,000  295,000  295,000  295,000  150,000	235,000 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 240,000 900,000 900,000 240,000 300,000 2,050,000 63,000 - 295,000 2,400,000	400,000 - 8,400,000 - 1,440,000 - 360,000 - - - - 2,775,000 - 295,000	3,600,000 			
Wastewater	J_2000692 J_20000711 J_20000475 J_20000192 J_10SW1528 J_10SW1528 J_10SW1264 J_20000874 J_20000872 J_20008874 J_20008873 J_20008875 J_20008875 J_20008875 J_20008875 J_20008875 J_20008875 J_20008875 J_20008876 J_20008887	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevensville-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Nilagrar Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Generator Replacement Program 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement Program 19-Odour Control System Program 19-Odour Control System Program 19-Out Station Kiosk Program 19-Out Station Kiosk Program 19-Decomission Old Central PS 19-Dain City Pump Station Forcemain Replacement 19-Dain City Pump Station Upgrade 19-Seaway WWTP Electrical Upgrade 19-Seaway WWTP Influent Channel 19-Replace Carleton Pump Station Forcemain 19-Hunters Pointe Pump Station Forcemain	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  240,000  900,000  240,000  900,000  240,000  900,000  240,000  240,000  240,000  240,000  240,000  240,000  255,000  240,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 - 600,000 240,000 900,000 900,000 900,000 300,000 240,000 300,000 2,050,000 63,000 - 295,000	400,000	- - - 3,600,000 - - 960,000 - - - - - - -			- - - - - - - - - - - - - - - - - - -
Wastewater	J_2000692 J_20000711 J_20000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1224 J_2000864 J_2000872 J_2000872 J_2000873 J_2000873 J_2000874 J_2000874 J_2000875 J_2000875 J_20008860	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Security Improvement Program 19-Odour Control System Upgrade 19-Boiler Replacement Program 19-Odour Control System Program 19-Odour Control System Program 19-Out Station Klosk Program 19-Dain City Pump Station Forcemain Replacement 19-Seaway WWTP Individed Channel 19-Seaway WWTP Electrical Upgrade 19-Seaway WWTP Electrical Upgrade 19-Seaway WWTP Individence Carleton Pump Station Porcemain 19-Hunters Pointe Pump Station Porcemain 19-Hunters Pointe Pump Station Dugrade 19-Replace Carleton Pump Station Dugrade 19-Replace Carleton Pump Station Dugrade	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  240,000  900,000  240,000  900,000  240,000  900,000  240,000  240,000  240,000  240,000  240,000  240,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 - 600,000 240,000 900,000 900,000 240,000 300,000 2,050,000 63,000 - 295,000 - 295,000 - 34,000	400,000	3,600,000 			
Wastewater	J_2000692 J_20000711 J_2000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1254 J_2000724 J_2000867 J_2000872 J_2000873 J_2000875 J_2000875 J_2000879 J_2000880 J_2000881 J_2000881 J_20008861 J_2000861 J_2000862 J_2000862 J_2000863	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Chemical System Upgrade 19-Boiler Replacement Program 19-Odour Control System Program 19-Odour Control System Program 19-Out Station Kiosk Program 19-Durit Station Kiosk Program 19-Durit Station Kiosk Program 19-Durit Station Kiosk Program 19-Dain City Pump Station Forcemain Replacement 19-Dain City Pump Station Upgrade 19-Welland WWTP Upgrade - Phase 2 19-Seaway WWTP Influent Channel 19-Replace Carleton Pump Station Forcemain 19-Hunters Pointe Pump Station Upgrade 19-Renown Pump Station Upgrade 19-Renown Pump Station Upgrade	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  500,000  900,000  240,000  300,000  240,000  900,000  900,000  900,000  900,000  240,000  2505,000  255,000	235,000 4,000,000 1,185,000 2,000,000 3,000,000 500,000 240,000 900,000 900,000 240,000 240,000 240,000 2,050,000 63,000 2,400,000 2,400,000 300,000 2,400,000 300,000 1,000	400,000	3,600,000 			
Wastewater	J_2000692 J_20000711 J_20000475 J_20000192 J_10SW1528 J_10SW1230 J_10SW1224 J_2000864 J_2000872 J_2000872 J_2000873 J_2000873 J_2000874 J_2000874 J_2000875 J_2000875 J_20008860	Mewburn Pump Station Upgrade East Side Pump Station Forcemain Replacement Stevenswille-Douglastown Lagoons Upgrade Riverview Pump Station Upgrade WWTP Upgrade - NOTL Lagoon Decommissioning Lakeside Pump Station Upgrade Woodsview Pump Station Upgrades South Niagara Falls Wastewater Treatment Plant 19-Replacement of Vac-Truck 19-Generator Replacement Program 19-Master Meter Replacement 19-Security Improvement Program 19-Security Improvement Program 19-Odour Control System Upgrade 19-Boiler Replacement Program 19-Odour Control System Program 19-Odour Control System Program 19-Out Station Klosk Program 19-Dain City Pump Station Forcemain Replacement 19-Seaway WWTP Individed Channel 19-Seaway WWTP Electrical Upgrade 19-Seaway WWTP Electrical Upgrade 19-Seaway WWTP Individence Carleton Pump Station Porcemain 19-Hunters Pointe Pump Station Porcemain 19-Hunters Pointe Pump Station Dugrade 19-Replace Carleton Pump Station Dugrade 19-Replace Carleton Pump Station Dugrade	6,325,000  711,000  235,000  400,000  4,000,000  1,185,000  12,000,000  2,000,000  3,000,000  240,000  900,000  240,000  900,000  240,000  900,000  240,000  240,000  240,000  240,000  240,000  240,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000  255,000	235,000 - 4,000,000 1,185,000 - 2,000,000 3,000,000 - 500,000 - 600,000 240,000 900,000 900,000 240,000 300,000 2,050,000 63,000 - 295,000 - 295,000 - 34,000	400,000	3,600,000 			

J_2000085 J_10SW15 J_2000068 J_2000019 J_10SW15 Wastewater Operations Total Water Operations J_2000064 J_2000062 J_200066 J_200061 J_200061 J_200063 J_10CW14 J_200083 J_200083 J_200083	13 WWTP Upgrade Prgm - Garner Road Access & Lagoon Improvements 4 MCC Upgrade Wastewater Program 7 Tupper Dr Trunk Sewer Rehab 27 Master Meter Replacement - Merrit Meadows  102 Grimsby System Storage 8 WTP Upgrade - Rosehill New Intake 103 Niagara Street Transmission Main Crossing Welland River 105 Decommissioning of St. David's Standpipe 106 New Pelham ET 107 New Pelham ET 108 New Barrick Road Watermain 109 DeCew Falls Bypass Channel Weir Upgrade (Middle Res) 109 Welland WTP - Transmission Main Crossing (Welland Canal) 109 Generator Replacement Program 109 Master Meter Replacement	1,560,000 2,300,000 1,800,000 2,660,000 510,000 52,391,000 11,550,000 1,750,000 3,555,000 300,000 1,185,000 1,700,000 1,700,000 150,000 4,620,000	1,560,000 - 2,660,000 - 24,158,000 - 1,750,000 - 325,000	2,300,000 1,800,000 - - 19,226,000 1,155,000 - 3,555,000 - 150,000 592,500 850,000 150,000	510,000 6,007,000 10,395,000 - - 150,000 592,500 850,000	3,000,000	-	-
J_200068 J_200019 J_10SW15  Wastewater Operations Total  Water Operations J_2000048 J_2000062 J_2000061 J_2000061 J_200066 J_10CW14 J_200083 J_200083 J_200083 J_200083	4 MCC Upgrade Wastewater Program 7 Tupper Dr Trunk Sewer Rehab 27 Master Meter Replacement - Merrit Meadows  02 Grimsby System Storage 8 WTP Upgrade - Rosehill New Intake 8 Niagara Street Transmission Main Crossing Welland River 5 Decommissioning of St. David's Standpipe 4 New Fort Erie ET 9 New Pelham ET 3 New Barrick Road Watermain 5 DeCew Falls Bypass Channel Weir Upgrade (Middle Res) 6 Welland WTP – Transmission Main Crossing (Welland Canal) 6 19-Generator Replacement 6 19-Master Meter Replacement	1,800,000 2,660,000 510,000 510,000 11,550,000 1,750,000 3,555,000 300,000 1,185,000 1,700,000 150,000 4,620,000 150,000	2,660,000 - 24,158,000 - 1,750,000 - 325,000	1,800,000	510,000 <b>6,007,000</b> 10,395,000 - - 150,000 592,500 850,000	3,000,000 - - - - - -	: : : : : :	- - - - - -
J_200019 J_10SW15  Wastewater Operations Total  Water Operations J_2000045 J_2000065 J_2000061 J_2000062 J_200066 J_200066 J_200068 J_10CW14 J_200083 J_200083 J_200083 J_200083 J_200083	Tupper Dr Trunk Sewer Rehab  Master Meter Replacement - Merrit Meadows  Oz Grimsby System Storage  MTP Upgrade - Rosehill New Intake  Niagara Street Transmission Main Crossing Welland River  Decommissioning of St. David's Standpipe  New Fort Erie ET  New Pelham ET  New Pelham ET  New Barrick Road Watermain  DeCew Falls Bypass Channel Weir Upgrade (Middle Res)  Welland WTP - Transmission Main Crossing (Welland Canal)  Helland WTP - Transmission Main Crossing (Welland Canal)	2,660,000 510,000 52,391,000 11,750,000 1,750,000 3,555,000 300,000 1,185,000 1,700,000 150,000 4,620,000 150,000	2,660,000 - 24,158,000 - 1,750,000 - 325,000	19,226,000 1,155,000 - 3,555,000 - 150,000 592,500 850,000 150,000	510,000 <b>6,007,000</b> 10,395,000 - - 150,000 592,500 850,000	3,000,000 - - - - - -	- - - - - - - -	- - - - -
Wastewater Operations Total Water Operations  J_10CW13 J_2000045 J_2000064 J_200061 J_200061 J_10CW14 J_200063 J_10CW14 J_200063 J_200063 J_200063 J_200063 J_200063 J_200063 J_200063	Master Meter Replacement - Merrit Meadows  2 Grimsby System Storage 8 WTP Upgrade - Rosehill New Intake 8 Niagara Street Transmission Main Crossing Welland River 5 Decommissioning of St. David's Standpipe 4 New Fort Erie ET 9 New Pelham ET 3 New Barrick Road Watermain 5 DeCew Falls Bypass Channel Weir Upgrade (Middle Res) 08 Welland WTP – Transmission Main Crossing (Welland Canal) 6 19-Generator Replacement 7 19-Master Meter Replacement	510,000 52,391,000 11,550,000 1,750,000 3,555,000 325,000 300,000 1,185,000 1,700,000 4,620,000 4,620,000	24,158,000 1,750,000 325,000	19,226,000 1,155,000 - 3,555,000 - 150,000 592,500 850,000 150,000	6,007,000 10,395,000 - - 150,000 592,500 850,000	3,000,000 - - - - - -	- - - - - -	- - - - -
Wastewater Operations Total Water Operations J_100CW13 J_2000064 J_2000062 J_2000061 J_2000061 J_2000061 J_10CW14 J_2000083 J_2000083 J_2000083 J_2000083 J_2000083 J_2000083	02 Grimsby System Storage 8 WTP Upgrade - Rosehill New Intake 8 Niagara Street Transmission Main Crossing Welland River 5 Decommissioning of St. David's Standpipe 4 New Fort Erie ET 9 New Felham ET 3 New Barrick Road Watermain 5 DeCew Falls Bypass Channel Weir Upgrade (Middle Res) 6 Welland WTP – Transmission Main Crossing (Welland Canal) 6 19-Generator Replacement 7 19-Master Meter Replacement	52,391,000  11,550,000 1,750,000 3,555,000 325,000 300,000 1,185,000 1,700,000 150,000 4,620,000	1,750,000 - 325,000 - - -	1,155,000 - 3,555,000 - 150,000 592,500 850,000 150,000	6,007,000 10,395,000 - - 150,000 592,500 850,000	- - - - -		- - -
Water Operations J_10CW13 J_2000045 J_2000062 J_200062 J_200061 J_200062 J_200062 J_10CW14 J_200063 J_10CW14 J_200063 J_200063 J_200063 J_200063	8 WTP Upgrade - Rosehill New Intake 8 Niagara Street Transmission Main Crossing Welland River 5 Decommissioning of St. David's Standpipe 4 New Fort Erie ET 9 New Pelham ET 3 New Barrick Road Watermain 5 DeCew Falls Bypass Channel Weir Upgrade (Middle Res) 08 Welland WTP - Transmission Main Crossing (Welland Canal) 6 19-Generator Replacement Program 7 19-Master Meter Replacement	1,750,000 3,555,000 325,000 300,000 1,185,000 1,700,000 4,620,000 150,000	1,750,000 - 325,000 - - -	3,555,000 - 150,000 592,500 850,000 150,000	- - 150,000 592,500 850,000	- - - - -	- - - - -	- - -
J_200048 J_200046 J_200062 J_200061 J_200061 J_200063 J_200083 J_200083 J_200083 J_200083	8 WTP Upgrade - Rosehill New Intake 8 Niagara Street Transmission Main Crossing Welland River 5 Decommissioning of St. David's Standpipe 4 New Fort Erie ET 9 New Pelham ET 3 New Barrick Road Watermain 5 DeCew Falls Bypass Channel Weir Upgrade (Middle Res) 08 Welland WTP - Transmission Main Crossing (Welland Canal) 6 19-Generator Replacement Program 7 19-Master Meter Replacement	1,750,000 3,555,000 325,000 300,000 1,185,000 1,700,000 4,620,000 150,000	1,750,000 - 325,000 - - -	3,555,000 - 150,000 592,500 850,000 150,000	- - 150,000 592,500 850,000	- - - - -	- - - - -	- - -
J_200046 J_200062 J_200061 J_200061 J_200061 J_10CW14 J_200063 J_200083 J_200083	Niagara Štreet Transmission Main Crossing Welland River  Decommissioning of St. David's Standpipe  New Fort Erie ET  New Pelham ET  New Barrick Road Watermain  DeCew Falls Bypass Channel Weir Upgrade (Middle Res)  Welland WTP – Transmission Main Crossing (Welland Canal)  19-Generator Replacement Program  19-Master Meter Replacement	3,555,000 325,000 300,000 1,185,000 1,700,000 4,620,000 150,000	325,000 - - - -	3,555,000 - 150,000 592,500 850,000 150,000	- - 150,000 592,500 850,000	- - - -	- - - -	- - -
J_200062 J_200061 J_200061 J_200061 J_100W14 J_2000083 J_2000083 J_200083	5 Decommissioning of St. David's Standpipe 4 New Fort Erie ET 9 New Pelham ET 3 New Barrick Road Watermain 5 DeCew Falls Bypass Channel Weir Upgrade (Middle Res) 08 Welland WTP – Transmission Main Crossing (Welland Canal) 6 19-Generator Replacement Program 7 19-Master Meter Replacement	325,000 300,000 1,185,000 1,700,000 150,000 4,620,000 150,000	- - -	150,000 592,500 850,000 150,000	150,000 592,500 850,000	- - -	- - -	-
J_200061 J_200061 J_200062 J_200062 J_10CW14 J_200083 J_200083 J_200083	4 New Fort Erie ET 9 New Pelham ET 3 New Barrick Road Watermain 5 DeCew Falls Bypass Channel Weir Upgrade (Middle Res) 08 Welland WTP – Transmission Main Crossing (Welland Canal) 6 19-Generator Replacement Program 7 19-Master Meter Replacement	300,000 1,185,000 1,700,000 150,000 4,620,000 150,000	- - -	150,000 592,500 850,000 150,000	150,000 592,500 850,000		-	
J_200061 J_200062 J_200061 J_10CW14 J_200063 J_200083 J_200083	9 New Pelham ET 3 New Barrick Road Watermain 5 DeCew Falls Bypass Channel Weir Upgrade (Middle Res) 08 Welland WTP – Transmission Main Crossing (Welland Canal) 6 19-Generator Replacement Program 7 19-Master Meter Replacement	1,185,000 1,700,000 150,000 4,620,000 150,000	- - -	592,500 850,000 150,000	592,500 850,000	-	-	
J_200062 J_200061 J_10CW14 J_200083 J_200083 J_200083	New Barrick Road Watermain DeCew Falls Bypass Channel Weir Upgrade (Middle Res) Welland WTP – Transmission Main Crossing (Welland Canal) Generator Replacement Program J9-Master Meter Replacement	1,700,000 150,000 4,620,000 150,000		850,000 150,000	850,000			
J_200061 J_10CW14 J_2000083 J_2000083 J_200083	5 DeCew Falls Bypass Channel Weir Upgrade (Middle Res) 08 Welland WTP – Transmission Main Crossing (Welland Canal) 6 19-Generator Replacement Program 7 19-Master Meter Replacement	150,000 4,620,000 150,000	-	150,000		-		-
J_10CW14 J_200083 J_200083 J_200083	08 Welland WTP – Transmission Main Crossing (Welland Canal) 6 19-Generator Replacement Program 7 19-Master Meter Replacement	4,620,000 150,000			-		-	
J_2000083 J_2000083 J_2000083	6 19-Generator Replacement Program 7 19-Master Meter Replacement	150,000	-			-	-	
J_2000083 J_2000083	7 19-Master Meter Replacement			4,620,000	-	-	-	
J_2000083			-	150,000	-	-	-	
	8 19-Reservoir & Storage Program	115,000	115,000	-	-	-	-	
		600,000	600,000	-	-	-	-	
J 2000083	9 19-Security Improvement Program	150,000	150,000	-		-	-	
J 2000084	0 19-Hardware & Software Upgrade	230,000	230,000	-		-	-	
J 2000084	2 19-Optimize Maintenance Syst.	340,000	340,000	-		-	-	
J 2000084	5 19-Four new trucks	345,000	345,000	-		-	-	
J 2000046	4 Niagara Falls WTP Raw Water Intake	4,800,000		-		-	-	4,800,000
J 2000084	9 19-Lundy's Lane Watermain Repl	1,000,000		1,000,000				
J 2000084	7 Decomissioning of Ridgeway Standpipe	425,000	297,500	-	127,500	-	-	
J 2000083	3 19-St. Davids Rd Main Phase 1	775,000		775,000		-	-	
J 2000084	4 19-DeCew High Lift Pump Sizing	90.000		90,000				
J 2000083	4 19-DeCew WTP Valve House Rehab	90,000		90,000		-	-	
J 2000085	1 DeCew Falls Low Lift Booster Station Upgrade	361,500		361,500				
J 2000085	2 19-DeCew UV Upgrade	600,000	600,000	-		-	-	
J 2000084	8 Watermain - Port Robinson System Interconnect	440,000		220,000	220,000	-	-	
J 2000084	1 19-House Demolition	60,000	60,000		-	-	-	
J 2000046		5,200,000	5,200,000	-		-	-	
J 2000061		500,000	500,000	-	-		-	
J 10CW15		600,000	600,000	-	-		-	
J 2000018		21.000.000	21.000.000	-		-	-	
J 2000098		125,000	-	125,000		-	-	
Water Operations Total		63,131,500	32,112,500	13,884,000	12,335,000	-	•	4,800,000
Grand Total		249,255,706	111,834,751	60,884,804	54,725,700	13,300,000	3,025,000	5,485,451
J 2000091	2 Rds Rehab - Roads Resurfacing	10000000 —	4,200,000		1,000,000	4.800.000		
J 2000092		1000000 —	500.000		500.000	.,000,000		
J 2000092		1500000 —	960.000		540.000			

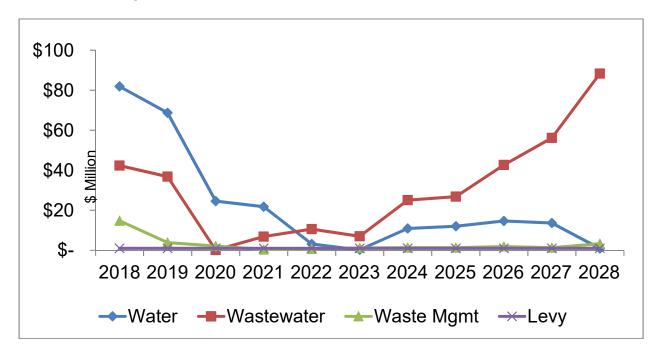
2019 Capital Projects for Future Initiation

Program	Project ID	Project Name	Gross Capital Request	Reserves	Debt	Development Charges	Federal Gas Tax	Local Area Municipality	Other External
Corporate Services	J_20000946	2019-Environmental Centre Expansion	21,177,000	21,177,000	-	-	-	-	-
Corporate Services			21,177,000	21,177,000	-	-	-	-	-
Total									
Niagara Regional			1,101,260	275,315	-	-	-	-	825,945
Housing	J_20001031	NRH SIF Property Acquisition & Intensification							
Niagara Regional			1,101,260	275,315	-	-	-	-	825,945
Housing Total									
Public Works - Levy	J_10RC1236		1,000,000	150,000	-	850,000	-	-	-
	J_20000901	Cpcty Imprv - New West St. Cath Grade Separation - Louth/Vansickle/First/St. Paul W	250,000	-	-	250,000	-	-	-
	J_20000903	Annual - Development Projects	1,000,000	-	-	-	-	-	1,000,000
Public Works - Levy			2,250,000	150,000	-	1,100,000	-	-	1,000,000
Total									
Waste Management	J_20000893	Recycle-2019 Facility Improve	500,000	450,000	-	50,000	-	-	-
Waste Management			500,000	450,000	-	50,000	-	-	-
Total									
Grand Total			25,028,260	22,052,315	-	1,150,000	-	-	1,825,945

Operating Unit / Division	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Total
Community Services	\$1,807,816	\$1,796,000	\$2,328,000	\$1,693,000	\$2,335,000	\$2,413,000	\$1,827,000	\$1,967,000	\$1,991,000	\$2,820,896	\$20,978,712
Corporate Administration	26,776,500	134,452,000	58,300,000	8,000,000	7,000,000	7,000,000	7,100,000	7,200,000	7,200,000	105,480,000	368,508,500
Planning	685,000	3,000,000	-	-	-	-	-	-	-	-	3,685,000
Public Health and EMS	2,201,231	3,476,738	4,461,962	5,077,183	2,726,612	3,128,841	3,202,935	5,257,264	2,951,372	2,831,136	35,315,274
Niagara Regional Housing	13,915,419	11,447,213	9,205,636	22,707,994	6,962,042	10,555,401	5,339,133	6,818,055	15,200,049	6,186,115	108,337,057
Niagara Regional Police	3,088,500	7,918,000	9,829,000	3,414,000	27,864,000	2,914,000	37,964,000	3,164,000	3,164,000	3,164,000	102,483,500
	103,018,000	103,765,000									
Transportation	103,362,000	106,265,000	92,850,000	89,330,000	110,210,000	68,930,000	83,300,000	78,880,000	58,530,000	54,230,000	845,887,000
Properties	100,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,350,000
Waste Management	6,825,000	8,429,000	7,788,000	3,783,000	1,915,000	2,310,000	3,600,000	1,902,000	4,963,000	2,440,000	43,955,000
Wastewater	52,391,000	111,040,000	63,515,000	47,015,000	44,040,000	50,800,000	125,790,000	60,515,000	47,740,000	34,890,000	637,736,000
Water	63,131,500	72,324,870	75,045,990	63,176,570	67,407,080	57,965,860	35,895,250	23,294,940	28,607,490	42,540,000	529,389,550
Grand Total	\$274,283,966	\$460,398,821	\$323,573,588	\$244,446,747	\$270,709,734	\$206,267,102	\$304,268,318	\$189,248,259	\$170,596,911	\$254,832,147	\$2,698,625,593

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### **Forecasted Capital Reserve Balances**



## Forecasted Capital Reserve Amounts (in \$ millions)

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Water	82	69	25	22	3	1	11	12	15	14	1
Wastewater	42	37	1	7	11	7	25	27	43	56	88
Waste Mgmt	15	4	2	1	1	1	1	1	2	1	3
Levy	1	1	1	1	1	1	1	1	1	1	1
Total	140	110	28	30	15	9	38	41	60	72	93

Project ID	Project Name	G	ross Capital Request	Allocation	Growth % per DC Study
<b>Moving People</b>	e and Goods				
J_10RC1329	Cpcty Imprv - Casablanca Blvd Widening - Livingston to QEW	\$	10,000,000	\$ 1,500,000	85%
J_10RC0816	Cpcty Imprv-Recon RR 57 (Thorold Stone Rd) ext east of Stanley Ave		6,000,000	900,000	85%
J_10RC0627	Rd Rehab - RR38 Martindale Rd - QEW to Fourth Reconstruction		16,100,000	500,000	85%
J_20000898	Rds Rehab - RR 72 Louth St -RR 81 St. Paul West to Crestcomb		500,000	300,000	40%
J_20000319	St. Davids Road East (from Hwy 406 to Collier Rd)		5,168,000	258,576	10%
J_10RC1554	Cpcty Imprv - Glendale Ave Interchange at QEW		6,000,000	250,000	85%
			43,768,000	3,708,576	

Department	Gross Capital Request	Development Charges	Project Applied against AMP	New Project/ Replacement in excess of AMP and DCs
Community Services	1,807,816	-	1,686,682	121,134
Corporate Services	26,776,500	-	23,318,900	3,457,600
Enterprise Resource Management Services	100,000	-	-	100,000
Niagara Regional Housing	13,915,419	674,900	12,905,419	335,100
Niagara Regional Police Services	3,088,500	-	1,400,000	1,688,500
Planning & Development	685,000	-	-	685,000
Public Health Emergency Services	2,201,231	-	2,201,231	-
	103,018,000	<del>37,794,300</del>	38,538,700	<del>26,685,000</del>
Public Works - Levy	103,362,000	36,638,700	37,498,300	29,225,000
Waste Management	6,825,000	220,100	1,908,300	4,696,600
Wastewater Operations	52,391,000	6,007,000	39,429,500	6,954,500
Water Operations	63,131,500	12,335,000	42,436,100	8,360,400
	274,283,966	55,875,700	162,784,432	55,623,834
	% of Gross	20%	60%	20%

Project ID	Project Name	Gross Capital Request
<b>Moving People</b>	e and Goods	
J_10RC0627	Rd Rehab - RR38 Martindale Rd - QEW to Fourth Reconstruction	16,100,000
J_10RC1329	Cpcty Imprv - Casablanca Blvd Widening - Livingston to QEW	10,000,000
J_10RC1554	Cpcty Imprv - Glendale Ave Interchange at QEW	6,000,000
J_10RC1566	Struc Rehab - St. Paul W CNR Bridge - Bridge Replacement	750,000
J_10RC1567	Rds Rehab - Riverside Dr. Reconstruction - Prince Charles Dr. to Lincoln	3,950,000
J 20000319	St. Davids Road East (from Hwy 406 to Collier Rd)	5,168,000
J_10RC0816	Cpcty Imprv-Recon RR 57 (Thorold Stone Rd) ext east of Stanley Ave	6,000,000
J_20000141	Int Imprv RR 20 - Industrial Park Dr to Townline Rd (Phase 3)	3,000,000
J_20000658	Struc Rehab - Mewburn Road @ CNR Tracks	2,000,000
J_20000660	Rd Rehab - RR56 Burleigh Hill - Glendale Ave to St. David's Rd	1,800,000
J_20000663	Struc Rehab - 20 Mile Arch - (Str. 081210) - Replace	4,520,000
J_20000664	Struc Rehab - Hydro Canal Bridge North (Str. 020230)	350,000
J_20000681	Int Improv RR20 - S Grimsby Rd 5 to Griffin St (Phase 2)	3,600,000
J_10RC1236	Cpcty Imprv-New Escarpment Crossing	1,000,000
J_20000895	Int Imprv - RR 24 Victoria Ave at RR 63 Canboro Road, WL and RR27 East Main at RR84 Moye	200,000
J_20000896	Rds Rehab - RR 43 Bridge St - Victoria Ave to Erie	500,000
J_20000897	Rds Rehab RR20 - Griffin St South to Industrial Park Rd (Phase 4)	500,000
J_20000898	Rds Rehab - RR 72 Louth St -RR 81 St. Paul West to Crestcomb	500,000
J_20000899	Struc Rehab - Seventh St Bridge (034205)	200,000
J_20000900	Rds Rehab - RR 81 Main St - Oakes Rd N to Casablanca Blvd	250,000
J_20000901	Cpcty Imprv - New West St. Cath Grade Separation - Louth/Vansickle/First/St. Paul W	250,000
J_20000903	Annual - Development Projects	1,000,000
J_20000912	Rds Rehab - Roads Resurfacing	8,844,000
J_20000914	Struc Rehab - Engineering Studies for Future Bridge Projects	200,000
J_20000928	Int Impr - RR100 Four Mile Creek @ York Rd, NOTL	250,000
J_20001038	Transportation Infrastructure Means Protection	4,000,000
J_20000666	Multi-Use Path- Sir Isaac Brock Way, Merrittiville to 406	250,000
J_20000936	Annual - 2019 Survey Equipment Replacement	30,000
J_20000494	NRT - Capital Acquisition	13,900,000
J_20000885	2019 Misc. Enhancements & Replacements	150,000
		95,262,000
	ovation, Investment and Entrepreneurship	
J_20000504	iDarts Upgrade	20,000
J_20000937	Online Development Planning Portal Phase 1	750,000
		770,000
Positioning Ni	agara Globally	
J 20000515	Civic Park and International Plaza	685,000
0_20000010	Civio i din dina momalionari laza	685,000
	our Ready Workforce	
J_20000680	NRH - Multi-Residential Intensification - Niagara Falls	810,000
J_20000918	NRH - 2019 Annual Unit Capital Program	5,355,404
J_20000919	NRH - 2019 - Annual Emergency Capital Program	200,000
J_20000920	NRH - 2019 - Annual Grounds Capital Program	912,842
J_20000921	NRH - 2019 Annual Building Capital Program	5,535,913
J_20001031	NRH - Multi-Residential Intensification - Thorold	1,101,260
1		13,915,419

Project ID	Project Name	Gross Capital Request
	ss Differently and Organizational Excellence	
J_20000922	LTC Homes - 2019 Bed Replacement	75,000
J_20000923	LTC Homes - 2019 Capital Improvements/Replacements	327,389
J_20000924	LTC Homes - 2019 Machinery/Equipment	434,277
J_20000925	LTC Homes - 2019 Resident Care Equipment	469,300
J_20000926	LTC Homes - 2019 Roof Replacement	501,850
J_20000931	Print Shop-Printing Press	40,000
J_20000933	2019 Annual Application Lifecycle Replacement	300,000
J_20000938	Project/Portfolio Management Software	250,000
J_20000981	Asset Management Software	250,000
J_20000935	2019 IT Asset Replacement	2,288,000
J_20000939	2019 Annual - Code and Legislative Compliance Program	100,000
J_20000941	2019 Annual - Energy Conservation Program	200,000
J_20000942	Bldg Int-2019 Region HQ-Space Acc	100,000
J_20000946	2019-Environmental Centre Expansion	21,177,000
J_20000943	Bldg Int-NRHQ-Emergency PA System & Fire Alarm System	700,000
J_20000977	19-Bldg Ext-NR-SAEO Niagara Falls Roof	290,000
J_20000976	19-Bldg Site-250 Thorold Road Life Cycle Renewal	220,000
J_20000979	19-Bldg Ext-NRPS-Gun Range Roof Design	71,500
J_20000980	19-Bldg Ext-NR Thorold Patrol Yard Roof Design	20,000
J_20000945	2019 Misc Levy Properties	100,000
J_20001009	NRPS - RTOC CCTV Equipment (2019)	45,000
J_20000997	NRPS - Annual Vehicle Replacements (2019)	1,400,000
J_20001000	NRPS - CEW Replacements (2019)	24,000
J_20001001	NRPS - Armoured Rescue Vehicle (2019)	300,000
J_20001002	NRPS - Bomb Suit Replacements (2019)	30,000
J_20001003	NRPS - Forensic Scanner (2019)	75,000
J_20001004	NRPS - Drug & Expl. Detection Equip. (2019)	40,000
J_20001005	NRPS - Fraud Unit Scanner (2019)	6,000
J_20001006	NRPS - SIS Investigative Software (2019)	8,500
J_20001007	NRPS - Respiratory Protection Systems (2019)	36,000
J_20000999	NRPS - NG 911 Equipment Replacement (2019)	400,000
J_20000998 J_20001008	NRPS - Annual IT & Network Equipment Replacement (2019) NRPS - Prisoner Restraint Systems (2019)	700,000
J_20001008 J_20000891	2019 Annual - EMS - Ambulance and Equipment Replacement	24,000 2,201,231
J 2000091	Rds Equip Prgm - Equipment Upg	200,000
J 20000915	Rds Fac Prgm - Patrol Yard Imprv	1,000,000
J 20000913	Annual - Guide Rail Improvement Program	200,000
J 20000909	Annual - Railway Crossing Improvement Program	100,000
J 20000911	Annual - Storm Sewers & Culvert Program	1,000,000
J 20000905	Annual - Illumination Installation & Upgrade Program	750,000
J_20000910	Annual - Traffic Signal Program	2,100,000
J 20000906	Annual - Engineering for Future Projects	400,000
J 20000908	Annual - Miscellaneous Road Properties	200,000
J_20000916	Ann_Prog-2019 Crack Sealing	250,000
J_20000917	Struc Rehab - Structural Rehabilitation Program- Construction	1,000,000
J 20000930	Rds Fac Prog-Traf Cntrl Cntre	250,000
J 20000907	Annual - Fleet Vehicle & Equipment Replacement Program	800,000
J 20000886	2019 Property Acquisition	110,000
J 20000713	Bridge Street - Reuse Centre	180,000
J 20000173	NR-12 - Cell # 4	1,430,000
J_10GL1216	Pumping Station Upgrades - NR-12 & Park Rd	770,000
J_20000171	NR-12 - Drop-Off Depot Improvements	180,000
J 20000883	NR-12 - Stormwater Management Pond Upgrades	605,000
J_10GL1218	Glenridge - Leachate Collection System Upgrades	910,000
3_13GE1210	Sistings Educate Concentration Oystern Oppidados	310,000

Project ID	Project Name	Gross Capital Request
J 20000601	Line 5 - LCS Improvements	910,000
J_10GL1515	Mountain Road - End Use Works	200,000
J 20000170	Mountain Road - Leachate Collection System	110,000
J 20000887	Mountain Road - Constructed Wetland	110,000
J_10GL1325	Quarry Road - Site Improvements	250,000
J 20000892	Recycle-2019 Loader Replace	300,000
J 20000893	Recycle-2019 Facility Improve	500,000
J 20000894	Recycle-2019 Build & Equip	110,000
J_20000864	19-Replacement of Vac-Truck	500,000
J 20000870	19-Generator Replacement Program	360,000
J 20000872	19-Master Meter Replacement	600,000
J_20000873	19-Security Improvement Program	240,000
J 20000874	19-Chemical System Upgrade	900,000
J 20000875	19-Boiler Replacement Program	900,000
J 20000877	19-Odour Control System Program	240,000
J 20000879	19-Out Station Kiosk Program	300,000
J 20000880	19-WWTP Digester & Sludge Management Program	2,050,000
J 20000684	MCC Upgrade Wastewater Program	1,800,000
J 20000484	Bender Hill Pump Station Upgrade	711,000
J 20000692	Mewburn Pump Station Upgrade	235,000
J 20000866	19-Decomission Old Central PS	90,000
J 10SW1513	WWTP Upgrade Prgm - Garner Road Access & Lagoon Improvements	2,300,000
J 20000475	Stevensville-Douglastown Lagoons Upgrade	4,000,000
J 20000881	19-Dain City Pump Station Forcemain Replacement	5,775,000
J 20000857	19-Dain City Pump Station Upgrade	295,000
J 20000860	19-Welland WWTP Ugrade - Phase 2	2,400,000
J 20000711	East Side Pump Station Forcemain Replacement	400,000
J 20000861	19-Seaway WWTP Electrical Upgrade	295,000
J 20000869	19-Seaway WWTP Influent Channel	295,000
J 20000192	Riverview Pump Station Upgrade	1,185,000
J 20000862	19-Replace Carleton Pump Station Forcemain	150,000
J_10SW1528	WWTP Upgrade - NOTL Lagoon Decommissioning	12,000,000
J 20000854	19-Hunters Pointe Pump Station Upgrade	170,000
J_20000858	19-Renown Pump Station Upgrade	300,000
J 20000856	19-Lake Street PS Upgrade	840,000
J 20000859	19-Decomissioning of Biggar Lagoons	340,000
J_20000197	Tupper Dr Trunk Sewer Rehab	2,660,000
J 10SW1230	Lakeside Pump Station Upgrade	2,000,000
J 10SW1264	Woodsview Pump Station Upgrades	3,000,000
J 20000724	South Niagara Falls Wastewater Treatment Plant	2,400,000
J_10SW1527	Master Meter Replacement - Merrit Meadows	510,000
J_20000868	19-Garner Rd W&WW Storage Facility Upgrade	590,000
J 20000853	Biosolids Management - Replacement of Rotating Assembly and Components for Centrifuge	1,560,000
J 20000836	19-Generator Replacement Program	150,000
J_20000837	19-Master Meter Replacement	115,000
J_20000838	19-Reservoir & Storage Program	600,000
J 20000839	19-Security Improvement Program	150,000
J_20000840	19-Hardware & Software Upgrade	230,000
J 20000842	19-Optimize Maintenance Syst.	340,000
J 20000845	19-Four new trucks	345,000
J 20000612	2018 WTP Upgrade - GAC Replacement	500,000
J_20000612 J_20000625	Decommissioning of St. David's Standpipe	325,000
J 20000464	Niagara Falls WTP Raw Water Intake	4,800,000
J_20000464 J_20000849	19-Lundy's Lane Watermain Repl	1,000,000
J_20000849 J_20000460	WTP Upgrade - Niagara Falls Lead Abatement & Filter Repairs - Plant 1 & 2	5,200,000
J_20000460 J_20000458	WTP Opgrade - Niagara Falls Lead Abatement & Filter Repails - Plant 1 & 2 WTP Upgrade - Rosehill New Intake	
J_20000458	vv i F Opgiaue - Noseiiiii New Illiake	1,750,000

Project ID	Project Name	Gross Capital Request
J_20000614	New Fort Erie ET	300,000
J_20000847	Decomissioning of Ridgeway Standpipe	425,000
J_20000468	Niagara Street Transmission Main Crossing Welland River	3,555,000
J_20000619	New Pelham ET	1,185,000
J_20000623	New Barrick Road Watermain	1,700,000
J_10CW1408	Welland WTP - Transmission Main Crossing (Welland Canal)	4,620,000
J_20000615	DeCew Falls Bypass Channel Weir Upgrade (Middle Res)	150,000
J_20000833	19-St. Davids Rd Main Phase 1	775,000
J_20000844	19-DeCew High Lift Pump Sizing	90,000
J_20000834	19-DeCew WTP Valve House Rehab	90,000
J_20000851	DeCew Falls Low Lift Booster Station Upgrade	361,500
J_20000852	19-DeCew UV Upgrade	600,000
J_20000848	Watermain - Port Robinson System Interconnect	440,000
J_20000841	19-House Demolition	60,000
J_10CW1516	WTP Upgrade Prgm - DeCew WTP Waste Optimization	600,000
J_20000185	WTP Upg - DeCew Plant 3	21,000,000
J_20000982	19-St.Davids Rd Main Phase 2	125,000
J_10CW1302	Grimsby System Storage	11,550,000
		163,651,547
		\$ 274,283,966

TREASURER'S REPORT PROJECT IDENTIFICATION AND FINANCING INFORMATION						
	I ROCE OF IDENTIFICATION AND FINANCING IN C	Long-term	Term			
Project ID	Description	Financing	(min-max)			
		Financing	(IIIIII-IIIax)			
J_10SW1528	WWTP Upgrade - NOTL Lagoon Decommissioning	\$ 8,400,000	1 - 30			
J_10CW1320	Welland WTP – Transmission Main Crossing (Welland Canal)	4,620,000	1 - 30			
J_20000663	Struc Rehab - 20 Mile Arch - (Str. 081210) - Replace	4,520,000	1 - 30			
J_20000468	Niagara Street Transmission Main Crossing Welland River	3,555,000	1 - 30			
J_20000400	19-Dain City Pump Station Forcemain Replacement	2,775,000	1 - 30			
J_10SW1513	WWTP Upgrade Prgm - Garner Road Access & Lagoon	2,300,000	1 - 30			
J_103W1313	Improvements	2,300,000	1 - 30			
J_20000684	MCC Upgrade Wastewater Program	1,800,000	1 - 30			
J_20000724	South Niagara Falls Wastewater Treatment Plant	1,440,000	1 - 30			
J_10CW1302	Grimsby System Storage	1,155,000	1 - 30			
J_20000849	19-Lundy's Lane Watermain Repl	1,000,000	1 - 30			
J_20000623	New Barrick Road Watermain	850,000	1 - 30			
J_20000833	19-St. Davids Rd Main Phase 1	775,000	1 - 30			
J_20000484	Bender Hill Pump Station Upgrade	711,000	1 - 30			
J_20000619	New Pelham ET	592,500	1 - 30			
J_10RC1566	Struc Rehab - St. Paul W CNR Bridge - Bridge Replacement	562,500	1 - 30			
J_20000711	East Side Pump Station Forcemain Replacement	400,000	1 - 30			
J_20000851	DeCew Falls Low Lift Booster Station Upgrade	361,500	1 - 30			
J_20000870	19-Generator Replacement Program	360,000	1 - 30			
J_20000664	Struc Rehab - Hydro Canal Bridge North (Str. 020230)	350,000	1 - 30			
J_20000858	19-Renown Pump Station Upgrade	300,000	1 - 30			
J_20000658	Struc Rehab - Mewburn Road @ CNR Tracks	300,000	1 - 30			
J_20000861	19-Seaway WWTP Electrical Upgrade	295,000	1 - 30			
J_20000869	19-Seaway WWTP Influent Channel	295,000	1 - 30			
J_20000848	Watermain - Port Robinson System Interconnect	220,000	1 - 30			
J_20000862	19-Replace Carleton Pump Station Forcemain	150,000	1 - 30			
J_20000836	19-Generator Replacement Program	150,000	1 - 30			
J_20000614	New Fort Erie ET	150,000	1 - 30			
J_20000615	DeCew Falls Bypass Channel Weir Upgrade (Middle Res)	150,000	1 - 30			
J_20000982	19-St.Davids Rd Main Phase 2	125,000	1 - 30			
J_20000844	19-DeCew High Lift Pump Sizing	90,000	1 - 30			
J_20000834	19-DeCew WTP Valve House Rehab	90,000	1 - 30			
J_20000494	NRT - Capital Acquisition	11,835,466	1 - 10			
J_20000921	NRH - 2019 Annual Building Capital Program	4,786,801	1 - 10			
J_20000918	NRH - 2019 Annual Unit Capital Program	4,630,719	1 - 10			
J_20000920	NRH - 2019 Grounds Capital Program	789,318	1 - 10			
	·					
	TOTAL	\$ 60,884,804				

TREASURER'S VERIFICATION REPORT	
(REQUIRED ONLY ON PROJECTS INVOLVING DEBENTURE FINANCING)	
This confirms that I have checked the "Debt Repayment Limit" for Regional Niagara and passage of the by to approve these projects will not cause the Region to exceed its limit.	y-law
DATE	
SIGNATURE	