



# Durham Budget 2020

## The Regional Municipality of Durham

2020 Business Plans and Budgets  
Water Supply and Sanitary  
Sewerage Systems

Approved by Regional Council  
December 18, 2019

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**2020 BUSINESS PLANS & BUDGETS**

**CONSOLIDATED BUDGETS FOR**

**WATER SUPPLY SYSTEM**

**AND**

**SANITARY SEWERAGE SYSTEM**

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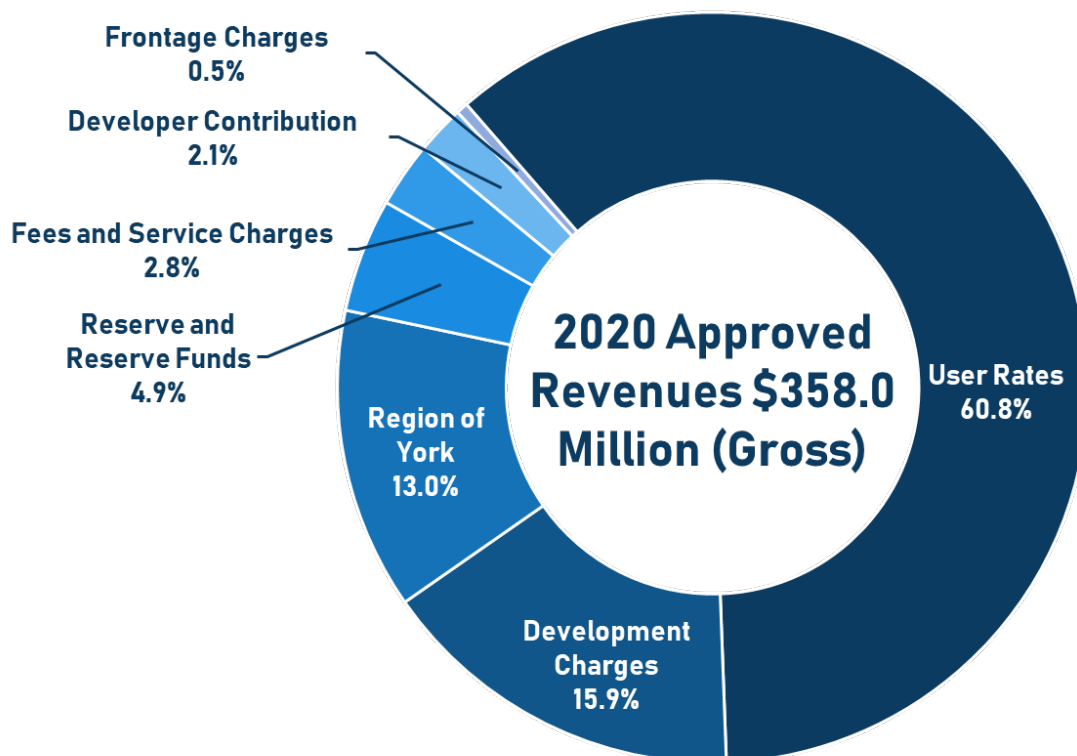
**Regional Municipality of Durham  
2020 Approved Regional Water Supply and Sanitary Sewerage Systems  
Business Plans and Budgets**

**1. Overview of the 2020 Water Supply and Sanitary Sewerage Systems Business Plans and Budgets**

1.1 The consolidated gross 2020 Water Supply and Sanitary Sewerage Systems Business Plans and Budgets total \$358.0 million (\$152.6 million water and \$205.4 million sewer). The 2020 approved budgets require a total of \$217.7 million in user rate revenue (\$111.7 million water and \$106.0 million sewer), consistent with the approved water and sewer user rate increase of 2.3 per cent overall (2.3 per cent for water and 2.3 per cent for sewer).

1.2 The 2020 Water Supply and Sanitary Sewerage Systems Business Plans and Budgets, with an overall user rate increase of 2.3 per cent, provides for a number of base pressures and non-discretionary items that are required for the continued operations of the water supply and sanitary sewerage systems in compliance with regulatory performance requirements. Significant strategic investments advance the implementation, support and maintenance of the new utility billing system and customer portal, new infrastructure and operations to address growth and critical renewal and replacement of capital infrastructure to address state of good repair in alignment with asset management best practices.

1.3 The following pie chart provides greater detail on the financing of the \$358.0 million Consolidated 2020 Water Supply and Sanitary Sewerage Systems Budget.



1.4 The approved 2020 Current and Capital Budgets and the Nine Year Capital Forecasts for the Water Supply and Sanitary Sewerage Systems, as outlined in this report, reflect the financial parameters of the approved user rate increase (Report #2019-COW-33).

1.5 The following table provides additional details on the approved 2020 Current and Capital Business Plans and Budgets for the Water Supply System.

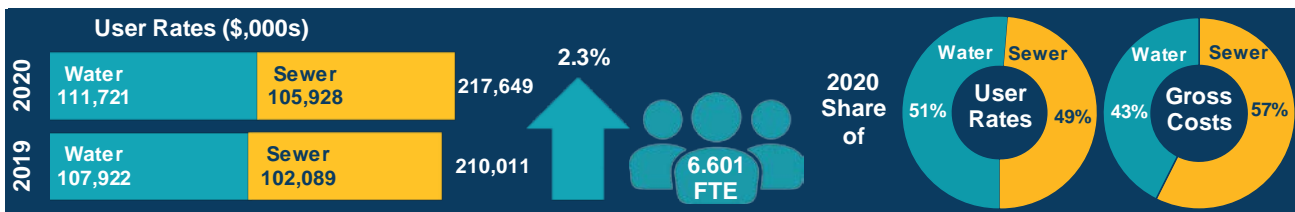
<u>EXPENDITURES</u>	2019 Approved Gross Budget (\$ 000's)	2020 Approved Gross Budget (\$ 000's)	Variance Incr/(Decr) (\$ 000's)
Operations:			
Watermain Cleaning and Repairs	3,572	3,493	(79)
Valves and Hydrants	3,211	2,991	(220)
Water Connections	4,370	4,186	(184)
Water Meters	666	542	(124)
Depot Operations	5,758	5,824	66
Plants East	2,926	3,151	225
Plants Central	13,263	14,131	868
Plants North	3,026	3,080	54
Sunvalley	29	29	-
Engineering and Staff Support	7,335	7,455	120
Facilities Management	6,603	7,615	1,012
Administration	315	319	4
Headquarters Shared Costs	1,073	1,100	27
Utility Finance	3,658	3,943	285
Share of Regional Corporate Costs	11,379	12,083	704
Subtotal Operations	67,184	69,942	2,758
Capital/Debt Charges:			
TCA Capital	3,361	4,732	1,371
TCA Construction	109,973	76,209	(33,764)
Debt Charges	1,694	1,694	-
Subtotal Capital/Debt Charges	115,028	82,635	(32,393)
<b>TOTAL EXPENDITURES</b>	<b>182,212</b>	<b>152,577</b>	<b>(29,635)</b>
<u>FINANCING</u>			
Contributions from Reserve Funds:			
Residential Development Charges - Growth Related Capital	57,358	20,823	(36,535)
Commercial Development Charges - Growth Related Capital	1,769	678	(1,091)
Industrial Development Charges - Debt Charges	536	536	-
Institutional Development Charges - Debt Charges	28	28	-
Water Rate Stabilization Reserve Fund	2,000	952	(1,048)
Asset Management Reserve Fund	4,985	5,234	249
Equipment Replacement Reserve	-	35	35
Fees and Service Charges	2,791	2,910	119
Financing From Others:			
Region of York - TCA Construction	325	225	(100)
Oversizing Costs Related to Seaton/Federal Lands	4,488	7,540	3,052
Frontage Charges - Petition Recoverable	-	1,864	1,864
<b>Financing From Non-User Revenue Sources</b>	<b>74,280</b>	<b>40,825</b>	<b>(33,455)</b>
<b>User Revenues Financing (including frontage charges)</b>	<b>107,932</b>	<b>111,752</b>	<b>3,820</b>
<b>TOTAL FINANCING</b>	<b>182,212</b>	<b>152,577</b>	<b>(29,635)</b>

1.6 The following table provides additional details on the approved 2020 Current and Capital Business Plans and Budgets for the Sanitary Sewerage System.

	2019 Approved Gross Budget (\$ 000's)	2020 Approved Gross Budget (\$ 000's)	Variance Incr/(Decr) (\$ 000's)
<b><u>EXPENDITURES</u></b>			
Operations:			
Cleaning, Repairs and Maintenance Holes	2,112	2,033	(79)
Sewer Connections	2,944	3,254	310
Depot Operations	3,198	3,228	30
WPCPs and Pumping Stations	23,236	23,999	763
Duffin Creek WPCP	35,551	37,197	1,646
Regional Environmental Laboratory	2,571	2,864	293
Engineering and Staff Support	6,769	6,886	117
Facilities Management	7,075	8,273	1,198
Administration	318	322	4
Headquarters Shared Costs	1,073	1,100	27
Utility Finance	3,658	3,943	285
Share of Regional Corporate Costs	14,333	15,199	866
Subtotal Operations	<u>102,838</u>	<u>108,298</u>	<u>5,460</u>
Capital/Debt Charges:			
Duffin Creek WPCP - TCA Capital	1,480	947	(533)
Regional Environmental Lab - TCA Capital	172	586	414
TCA Capital	2,409	5,673	3,264
TCA Construction	106,437	68,950	(37,487)
Debt Charges	21,761	21,011	(750)
Subtotal Capital/Debt Charges	<u>132,259</u>	<u>97,167</u>	<u>(35,092)</u>
<b>TOTAL EXPENDITURES</b>	<b><u>235,097</u></b>	<b><u>205,465</u></b>	<b><u>(29,632)</u></b>
<b><u>FINANCING</u></b>			
Contributions from Reserve Funds:			
Residential Development Charges - Growth Related Capital	11,859	20,013	8,154
Residential Development Charges - Debt Charges	11,499	11,521	22
Commercial Development Charges - Growth Related Capital	1,266	1,275	9
Commercial Development Charges - Debt Charges	1,439	1,552	113
Industrial Development Charges - Growth Related Capital	1,000	-	(1,000)
Industrial Development Charges - Debt Charges	-	532	532
Institutional Development Charges - Debt Charges	-	8	8
Sanitary Sewer Rate Stabilization Reserve Fund	-	2,702	2,702
Asset Management Reserve Fund	8,234	8,646	412
Equipment Replacement Reserve	-	35	35
Regional Environmental Lab Equipment Replacement Reserve	135	-	(135)
Fees and Service Charges	6,811	7,001	190
Financing From Others:			
Region of York - TCA	1,132	1,040	(92)
Region of York - TCA Construction	23,514	16,566	(6,948)
Oversizing Costs Related to Seaton/Federal Lands	13,080	-	(13,080)
Region of York - Operating	27,109	28,444	1,335
Region of York Environmental Lab Operations	-	168	168
Debenture Proceeds:			
Courtice Trunk Sanitary Sewer, Clarington	25,900	-	(25,900)
<b>Financing From Non-User Revenue Sources</b>	<b><u>132,978</u></b>	<b><u>99,503</u></b>	<b><u>(33,475)</u></b>
<b>User Revenues Financing (including frontage charges)</b>	<b><u>102,119</u></b>	<b><u>105,962</u></b>	<b><u>3,843</u></b>
<b>TOTAL FINANCING</b>	<b><u>235,097</u></b>	<b><u>205,465</u></b>	<b><u>(29,632)</u></b>

## 2. Highlights of the 2020 Water Supply and Sanitary Sewerage Systems Business Plans and Budgets

### Water Supply and Sanitary Sewerage Systems



#### Services:

##### Water Supply System

- Maintain and operate the Region's linear water distribution system in an efficient and cost effective manner for the Region's approximately 179,293 customers.
- Maintain all systems to meet regulations to ensure healthy water supply is delivered to the community.
- Plan, design and construct water supply infrastructure.

##### Sanitary Sewerage System

- Maintain and operate the Region's Sewage Collection Systems to ensure safe and efficient treatment of effluent for the Region's approximately 175,252 customers.
- Maintain all programs for compliance with Ministry of Environment, Conservations and Parks Acts and Regulations.
- Plan, design and construct sanitary sewerage infrastructure.

##### Utility Finance

- Set-up, maintain and issue billings for customer accounts related to Water and Sanitary Sewerage. Receive, deposit and record approximately 787,000 water and sanitary sewer payments.
- Provide customer services to water and sanitary sewer customers, including responding to over 100,000 telephone inquiries, 12,000 emails and over 3,900 customer inquiries made in person.
- Obtain water meter readings associated with residential and non-residential customer accounts, as well as investigating and assisting customers to identify water consumption problems.

## 2019 Accomplishments:

Regional water supply and sanitary sewerage systems continue to provide safe drinking water and protect the water environment. Quality and environmental management systems support and integrate operations to meet regulatory performance requirements.

- 0 Boil Water Advisory days.
- 99.97 per cent compliance of drinking water test results.
- No sanitary sewage by-pass events.
- 100 per cent compliance of wastewater effluent results to protect water environment.
- Newcastle Water Supply Plant detailed design is complete and tender ready in 2020.
- Zone 4 (Seaton) Reservoir and Water Pumping Station detailed design is complete and tender ready in 2020.
- Construction completed for 12 of the 18 projects receiving federal and provincial funding under Clean Water and Wastewater Fund (CWWF).
- Bulk Water Filling Station for Whitby/Oshawa service area has been tendered and is ready for construction.
- Newcastle Sanitary Sewerage Pumping Station detailed design is complete and is tender ready in 2020
- Plant Operations staff (Operations Challenge Team) won the Water Environment Association of Ontario (WEAO) Championship.
- A Plant Operations staff member received the 2019 Water Environment Federation (WEF) Operator Ingenuity Award.
- Ongoing modernization of data management at Duffin Creek Water Pollution Control Plant. Similar data management modernization was initiated in the Plant Operations division for other Regional water supply and sanitary sewerage service areas.
- Implemented a new modern water billing system.
- Upon launch of the web-based customer portal, “My Durham Water” in 2020 customers will have online access to their accounts to:
  - View billing information;
  - Enter meter readings online;
  - Choose from multiple payment options, including e-payments;
  - Receive bills online through paperless e-billing; and
  - Seamlessly access the Region’s website for rates and other water billing information.

## Operating and Staffing:

- The approved 2020 Operating Business Plans and Budgets for Water Supply and Sanitary Sewerage Systems total \$178.2 million (Water \$69.9 million, Sewer \$108.3 million).
- The following is a summary of the operating priorities and pressures:
  - Annualization of operations and maintenance for the new utility billing system and customer portal.
  - Annualization of 4.598 positions approved in 2019.
  - Modernization of the Region's Business Planning and Budget process including system modernization.
  - Implementation of Workforce Scheduling in Depot Operations.
- Priority staffing of 8 positions, shared with Works – General Tax and Solid Waste Management (4.371 FTE in Water Supply and 2.230 FTE in Sanitary Sewerage) at a combined 2020 cost of \$390k or \$777k annualized for the Water Supply and Sanitary Sewerage Systems share. Details on the approved positions are as follows:
  - One Vehicle and Equipment Trainer in Depot Operations to provide training to vehicle and equipment operators in all Regional departments. This position is shared with General Tax (0.340 FTE), Water Supply (0.330 FTE) and Sanitary Sewerage (0.330 FTE) (Annualized cost of \$125k).
  - Two Sewer, Water, Appurtenances and Testing (SWAT) Labourers in Construction Management Services to aid with watermain disinfection, sampling and pressure testing. These positions are shared with General Tax (0.716 FTE), Water Supply (0.770 FTE) and Sanitary Sewerage (0.514 FTE) (Annualized cost of \$193k).
  - One Senior Project Coordinator in Facilities Design, Construction and Asset Management to support delivery of facility related capital projects. This position is shared between General Tax (0.288 FTE), Water Supply (0.271 FTE), Sanitary Sewerage (0.386 FTE) and Solid Waste (0.055 FTE) (Annualized cost of \$117k).
  - One Works Technician 3 in Plants Central to enhance the maintenance program required for water regulation compliance. This position is solely for Water Supply (1.000 FTE) (Annualized cost of \$110k).
  - One Maintenance Operator in Plants Central to meet regulatory compliance. This position is solely for Water Supply (1.000 FTE) (Annualized cost of \$114k).
  - One Business Analyst in Utility Finance to support the Region's new utility billing system and customer portal. This position is shared between Water Supply (0.500 FTE) and Sanitary Sewerage (0.500 FTE) (Annualized cost of \$124k).
  - One Database Administrator in Utility Finance to support the Region's new utility billing system and customer portal. This position is shared between Water Supply (0.500 FTE) and Sanitary Sewerage (0.500 FTE) (Annualized cost of \$142k).



## Capital and Debt Servicing Costs:

- The approved 2020 Capital Budget for Water Supply and Sanitary Sewerage Systems including debt servicing costs is \$179.8 million (Water \$82.6 million, Sewer \$97.2 million) and includes construction of municipal services, vehicles, computer equipment and facility upgrades. The 2020 Capital Budget is funded from user rate revenue, development charges revenue, reserve and reserve fund contributions, developer contributions and the Region of York for their share of system improvements and other TCA capital at the Duffin Creek WPCP and the Regional Environmental Laboratory.
- In developing the Region's annual Asset Management Report, data is collected and analyzed to ensure sound and timely investments are made to maintain the Region's existing assets at a level to meet service delivery expectations and minimize the cost of assets over their lifecycles. The 2020 Capital Budget and Nine-Year Capital Forecast includes projects to address Water Supply and Sanitary Sewerage assets in poor/very poor condition, at the end of their useful life or in need of timely rehabilitation/replacement. The 2020 Water Supply and Sanitary Sewerage Strategic Issues and Financial Forecast Report (Report 2019-COW-32) provide additional information on the specific state of good repair projects.
- Table One in this Report provides detail on the major capital projects included in the approved 2020 Capital Budget for Water Supply and Sanitary Sewerage Systems.

## Risks, Uncertainties and Future Pressures:

- Legislative and regulatory changes from provincial and federal approval agencies.
- Potential for further reduction in water usage resulting in lower revenue, without corresponding cost reductions.
- Growth across the Region, including development of several new communities in Seaton, West Whitby, North Oshawa, Bowmanville and Newcastle Village, that will increase the demand for services to support residents and businesses as well as the operational and maintenance requirements for Regional infrastructure.
- Changing and unpredictable weather patterns impacting treatment operations as well as preventative and reactive maintenance activities for the regional water supply and sanitary sewerage linear infrastructure network.
- Annualization of new positions approved in the 2020 Water Supply and Sanitary Sewerage Systems Business Plans and Budgets will result in a \$387k increase (\$254k Water Supply and \$133k Sanitary Sewerage) in the 2021 Business Plans and Budgets.

## Risks, Uncertainties and Future Pressures:

- Over the forecast period there are on-going debt charge commitments for the sanitary sewerage system (\$21.0 million in 2020), mainly related to the Stage III Expansion at the Duffin Creek Water Pollution Control Plant (Bio-solids Management) and the Courtice, Port Darlington and Nonquon Water Pollution Control Plants. Additional debt financing for the sanitary sewerage system may be required over the forecast period for the Courtice Trunk Sanitary Sewer, Duffin Creek WPCP, Courtice WPCP and the Corbett Creek WPCP, which will be slightly offset by a decrease in debt charges as some existing debt related to the Duffin Creek WPCP and Courtice WPCP will be retired over the forecast period.
- There are on-going debt charges for water supply system (\$1.7 million in 2020), related to the Newcastle Water Supply Plant expansion and replacement capital project. Debt financing for the water supply system may increase over the forecast period related to the Whitby, Bowmanville and Ajax Water Supply Plant expansion projects.

**Table One  
2020 Major Water Supply and Sanitary Sewerage Systems Capital Program**

<b>Water Supply</b>	<b>\$million</b>	<b>Sanitary Sewer</b>	<b>\$million</b>
Watermain replacement / rehabilitation to address critical needs	18.2	Sanitary sewer replacement to address critical needs	5.6
Watermain Petition Projects:			
- Ontoro Blvd (Ajax)	1.8		
- Fielding Court (Ajax)	0.6		
Plant and Water Pumping Stations (WPS) and Reservoirs:		Plant and Sanitary Sewage Pumping Stations (SSPS):	
- Seaton Zone 4 Reservoir and Zone 5 WPS, Pickering	6.7	- Conlin Road SSPS expansion and feedermain, Oshawa (Construction of feedermain in 2020)	3.5
- Cannington New Well & Pumphouse	5.0	- Courtice Water Pollution Control Plant (WPCP) remediation works	3.5
- Oshawa Zone 4 Water Storage Facility	3.2	- Water Street SSPS upgrades, Whitby (Design and Construction)	2.6
- Zone 1 Reservoir, Newcastle	3.0	- Fuel Tank Compliance	2.0
- Whitby Water Supply Plant (WSP) Expansion (Design)	2.5	- Lake Simcoe WPCP Upgrades (Brock)	1.6
- Ajax WSP expansion (EA) and rehabilitation work	3.6	- Bayly Street SSPS Upgrades (Pickering)	1.5
- Whitby Zone 4 Water Storage facility	1.7	- Madawaska SSPS standby power (Oshawa)	1.3
- Thickson Road Zone 3 WPS expansion, Whitby	1.6	- Corbett Creek WPCP (Whitby) Expansion (EA)	1.0
- Sunderland New Well and Pumphouse (Design)	1.0	- Cannington WPCP Lagoon system (Conceptual Design)	1.0

<b>Water Supply</b>	<b>\$million</b>	<b>Sanitary Sewer</b>	<b>\$million</b>
Water filling stations	3.2	Duffin Creek Water Pollution Control Plant (WPCP):	
Replacement of water meters	3.1	- Replacement of Reactors 1 & 2 (\$20.0 million, York Share - \$14.8 million)	5.2
Replacement of lead water service connections	1.0	- Digester Mixing Improvements (\$1.0 million, York Share - \$0.7 million)	0.3
		- Environmental Lab Upgrades (\$0.4 million, York share - \$0.2 million)	0.2
		- Remedial Works (\$1.3 million, York share - \$0.8 million)	0.5
New feeder mains (growth related):		New trunk sanitary sewers (growth related):	
- Conlin Rd., Oshawa	4.2	- West Brooklin Trunk Sewer, Whitby	8.3
- Bloor St., Oshawa	1.5	- Wilmot Trunk Sewers, Newcastle	4.4
- Zone 4 feeder main from WPS to Zone 4 Reservoir, Oshawa	1.2	- Courtice Trunk Sewer (Phase 3), Courtice	2.0
		- Port Darlington Trunk Sewer, Bowmanville	1.7

### **3. Line-by-line Review**

- 3.1 As part of the development of the consolidated 2020 Water Supply and Sanitary Sewerage Systems Business Plans and Budget, departments completed a line-by-line review. Departments, under the guidance of the CAO and Commissioner of Finance, reviewed three years of historical actuals to identify 2020 base budget reductions that do not impact service levels.
- 3.2 The following base budget savings have been identified and are reflected in the approved consolidated 2020 Water Supply and Sanitary Sewerage Systems Business Plans and Budget:
- A) Water Supply System - \$2.0 million
  - B) Sanitary Sewerage System - \$0.9 million
  - C) Utility Finance - \$0.1 million

### **4. Use of Development Charges, Reserves and Reserve Funds**

- 4.1 Staff have identified and have included the sustainable use of reserve and reserve funds and development charges to fund one-time expenditures in the 2020 Water Supply and Sanitary Sewerage Systems Business Plans and Budgets while ensuring the Region's commitment to fiscal responsibility and long-term financial planning have been maintained.

4.2 The following provides a summary of the use of development charges and reserve and reserve funds utilized in the approved 2020 budget:

A) Capital and Construction of Municipal Services – Water:

- Development Charges - \$21.5 million
- Water Rate Stabilization Reserve Fund - \$0.7 million
- Asset Management Reserve - \$5.2 million
- Equipment Replacement Reserve - \$35.0k

B) Capital and Construction of Municipal Services – Sewer

- Development Charges - \$21.3 million
- Sewer Rate Stabilization Reserve Fund - \$0.7 million
- Asset Management Reserve - \$8.6 million
- Equipment Replacement Reserve - \$35.0k

C) Debt Charges – Water

- Development Charges - \$0.6 million

D) Debt Charges – Sewer

- Development Charges - \$13.6 million

E) Operating Initiatives – Water and Sewer

- Utility Billing System Implementation Support (one-time) - \$0.5 million (\$0.25 million each from Sewer Rate Stabilization Reserve Fund and Water Rate Stabilization Reserve Fund)

F) Operating Initiatives – Sewer

- Council, during their review of the 2020 Sanitary Sewerage Business Plans and Budget, approved an additional draw of \$1.75 million from the Sewer Rate Stabilization Reserve Fund to achieve an overall sewer user rate increase of 2.3 per cent.

4.3 Staff continue to review the water supply and sanitary sewer rate stabilization reserve funds on an annual basis to identify potential applications of these funds to the major capital projects to minimize the debenture requirements and mitigate the impacts on user rates.

## 5. Conclusion

5.1 The approved 2020 Water Supply and Sanitary Sewerage Systems Business Plans and Budgets are financed within the overall water supply and sanitary sewerage user rate increase of 2.3 per cent and other related funding including development charges and fees/charges.

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**2020 Business Plan**

**Works - Water Supply System**

**Major Services & Activities**

**Water Distribution System Maintenance**

- ◆ Prevent loss of water causing excessive flow rates, low pressure, increased pumpage and treatment through maintenance and repair activities.
- ◆ To ensure that all hydrants and valves are in working condition when they are operated.
- ◆ Maintain (clean and repair) and operate the Region's linear water distribution system in an efficient and cost effective manner.
- ◆ Maintain the inventory of water meters to accurately measure the consumption of water to maximize revenue for the Region.
- ◆ Aggressive residential meter replacement program to address meters over 20 years old that are still in service.

**Water Supply and Treatment**

- ◆ Maintain a healthy community.
- ◆ Plan, design and construct water supply infrastructure.
- ◆ Operate and maintain the water supply system across the Region providing potable water through infrastructure including surface water plants, elevated tanks, standpipes, wells, reservoirs and pumping stations.
- ◆ Maintain records of water quality, water flow and the cost of water supply operations.
- ◆ Maintain Drinking Water Quality Management System under the Safe Drinking Water Act.
- ◆ Maintain all programs for compliance with Ministry of the Environment, Conservation and Parks Acts and Regulations.
- ◆ Plan, implement and maintain requirements under the Clean Water Act for Source Water Protection.

**The following information highlights the Department's focus on the Durham Region Strategic Plan:**

**Strategic Goal C.2 - Protect, enhance and where appropriate restore significant water resources, agricultural land, natural heritage and environmentally sensitive areas.**

**Key Deliverables**

**Responsibility - Co-Lead**

- ◆ Continue to protect the Region's drinking water supply (source water protection)



**2020 Business Plan**

**Works - Water Supply System**

**Strategic Goal C.4 - Demonstrate leadership in sustainable asset management and environmentally friendly municipal practices.**

**Key Deliverables**

**Responsibility - Co-Lead**

- ◆ Plan, forecast and manage provision, operation, maintenance and capital costs for existing and new infrastructure

**Strategic Goal C.5 - Work more closely with local municipalities and other partners to manage growth through effective, progressive and integrated long-term planning.**

**Key Deliverables**

**Responsibility - Co-Lead**

- ◆ Identify opportunities to improve the planning and approval process to promote alignment and integration with area municipalities
- ◆ Continue to offer planning support to local municipalities to ensure compliance with Regional and Provincial plans

**Strategic Goals**

<b>Goal</b>	<b>Description</b>	<b>Responsibility - Support</b>
<b>A.1</b>	Propel the business and investment climate forward in Durham Region to enable more local employment.	
<b>B.3</b>	Cultivate strong, safe and secure communities and healthy workplaces.	
<b>C.1</b>	Invest in efforts to mitigate and adapt to climate change to build resiliency across the region.	
<b>D.1</b>	Deliver Regional services in a financially prudent and sustainable manner.	
<b>D.2</b>	Foster awareness of Regional programs and services.	
<b>D.3</b>	Improve communication and collaboration across the Region and in particular with local municipalities.	
<b>D.4</b>	Promote a culture of openness and encourage public engagement in governance and decision making.	
<b>D.5</b>	Demonstrate accountability and transparency by measuring performance and reporting on results.	
<b>D.6</b>	Invest in the organization by attracting and retaining a skilled and diverse workforce.	
<b>D.7</b>	Focus resources on continuous improvement and innovation.	



## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Works - Water Supply System

\$ 000's

#### Maintenance Operations

##### Watermain Cleaning and Repairs

♦ Increase to reflect actual costs and forecasted requirements for leak detection, foam swabbing and cathodic protection activities	215
♦ Increases to reflect actual costs and forecasted requirements in hydrant flushing	12
	<b>227</b>

##### Valves and Hydrants

♦ Increases to reflect actual costs and forecasted requirements related to the maintenance of valve boxes (\$57k), hydrant inspection and operation activities (\$22k), repairing and reconditioning valves (\$18k) and hydrant fire flow testing (\$13k)	110
♦ Adjustments to reflect actual costs and forecasted requirements in various other valves and hydrant activities	18
	<b>128</b>

##### Water Connections

♦ Increase to reflect actual costs and forecasted requirements for water service box repair (\$162k) and water connection repairs (\$146k)	308
♦ Increase to reflect actual costs and forecasted requirements for the inspection of water service boxes	31
	<b>339</b>

##### Water Meters

♦ Increases to reflect actual costs and forecasted requirements related to various water meter maintenance activities	3
	<b>3</b>

##### Depot Operations

♦ Proposed new position representing 0.330 FTE, to start July 1st, 2020: <ul style="list-style-type: none"> <li>♦ One (1) Vehicle and Equipment Trainer to support the expanded role in providing training to vehicle and equipment operators in all Regional departments and divisions. This position is shared with General Tax and Sanitary Sewerage (Annualized impact is \$42k) (0.330 FTE)</li> </ul>	21
♦ Increase in temporary pay to address peak workload demands	67
♦ One-time increase for consulting related to Workforce Scheduling implementation	50
♦ Increases in water services locating (\$14k), general office supervisory activities as a result of decreasing field supervision (\$13k) and complaint investigation (\$11k)	38
♦ Increase in telephone hardware (\$12k) and network upgrades (\$11k) related to the new Enterprise Maintenance Management System	23
♦ Adjustments to reflect actuals costs and forecasted requirements in various accounts related to Depot Operations activities	27
	<b>226</b>

## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Works - Water Supply System

\$ 000's

#### Water Supply Plants

##### Plants East (Bowmanville, Orono, Newcastle)

◆ Reallocation of existing Chief Maintenance Operator position from Plants North (0.500 FTE)	61
◆ Increase in overtime due to Newcastle WSP expansion project currently underway requiring additional staff hours to maintain current level of service	35
◆ Increase in disinfection chemicals due to increased plant flows from significant weather events and regulatory compliance	17
◆ Increase in software licenses for eWorksafe	7
◆ Increase in allocation for SCADA Systems support reflecting changes to SCADA operating costs	17
◆ Increase in Regional Environmental Lab costs due to enhanced testing requirements for wells	20
◆ Increase in minor assets and major repairs and renovations for variable frequency drive, soft start and motor control equipment (\$10k) and an allowance for spare parts for operating equipment (\$25k)	35
◆ Increases to reflect actual costs and forecasted requirements in various accounts	28
	220

##### Plants Central (Ajax, Oshawa, Whitby)

◆ Proposed new positions representing 2.000 FTEs, to start July 1st, 2020:	
◆ One (1) Works Technician 3 to enhance the maintenance program required for compliance with water regulations (Annualized impact is \$110.4k) (1.000 FTE)	55
◆ One (1) Maintenance Operator to meet regulatory compliance required with the implementation of the Integrated Water SCADA system (Annualized impact is \$114.5k) (1.000 FTE)	57
◆ Reallocation of one (1) SCADA Technologist to SCADA Systems to reflect centralization of SCADA system support	(114)
◆ Decrease in gapping due to ongoing hiring activities and filling of existing vacancies in 2020	45
◆ Increase in temporary staffing to support North East Monitoring Operations (NEMO) related to SCADA upgrades ongoing to 2023	180
◆ Increase in overtime due to ongoing enhancement projects and to meet forecasted requirements	41
◆ Increase in hardware and software requirements related to SCADA systems	30
◆ Increase in allocation for SCADA Systems support reflecting changes to SCADA operating costs	26
◆ Increase in Regional Environmental Lab costs due to enhanced testing requirements for wells	33
◆ Increase in major repairs and renovations for filter rehabilitation at the Oshawa WSP (\$100k), the replacement of chemical wood stave liners at various plants (\$30k) and switchgear batteries for the Ajax WSP (\$25k)	155
◆ Decrease in budgeted revenue based on non-guaranteed receipt of save on energy rebates	76
◆ Adjustments to reflect actual costs and forecasted requirements in various accounts	15
	599

## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Works - Water Supply System

\$ 000's

#### Water Supply Plants (continued)

##### Plants North (Uxbridge, Scugog, Brock)

◆ Position upgrade of existing District Technician to Chief Maintenance Operator	6
◆ Reallocation of above noted Chief Maintenance Operator position to Plants East (-0.500 FTE)	(61)
◆ Increase in allocation for SCADA Systems support reflecting changes to SCADA operating costs	15
◆ Increase in Regional Environmental Lab costs due to enhanced testing requirements for wells	20
◆ Increase in chemical costs based on review of actual costs and forecasted requirements	10
◆ Increase in equipment maintenance and repairs based on review of historical actuals and forecasted requirements	15
◆ Increase in major repairs and renovations for an allowance for spare parts for operating equipment (\$20k)	20
◆ Adjustments to reflect actual costs and forecasted requirements in various other accounts	12
	<b>37</b>

##### SCADA Systems

◆ Reallocation of one (1) SCADA Technologist from Plants Central (1.000 FTE)	114
◆ Increase in overtime to reflect actual costs and forecasted requirements	25
◆ Increase in technical training to meet regulatory requirements	18
◆ Adjustments to reflect actual costs and forecasted requirements in various accounts	8
◆ Allocation of above changes to all Water Supply Plants and Water Pollution Control Plants	(165)
	<b>-</b>

##### Sun Valley Water System

◆ Pump replacement	2
◆ Increase in Sun Valley fees	(2)
	<b>-</b>

##### Engineering and Staff Support

◆ Proposed new positions representing 0.770 FTE, to start July 1st, 2020: <ul style="list-style-type: none"> <li>◆ Two (2) SWAT Labourers in Construction Management Services to aid with watermain disinfection, sampling and pressure testing for all subdivisions and regional capital construction. This position will be shared with General Tax and Sanitary Sewerage (Annualized impact is \$74.8k) (0.770 FTE)</li> </ul>	37
◆ Transfer of one (1) vacant position from Real Estate to Facilities Management (-0.140 FTE)	(16)
◆ Reallocation of resources to Technical Support from other funds based on actual requirements (0.065 FTE)	11
◆ Position upgrades in Construction and Environmental Services to reflect changing work requirements	26
◆ Increase in temporary staff costs to reflect actual costs and forecasted requirements	70
◆ Increase in recoveries from capital projects due to above increase in staff resources	(47)
◆ Increase in extraordinary maintenance for plant equipment to reflect actual costs and forecasted requirements	50
◆ Adjustments to reflect actual costs and forecasted requirements in various accounts	40
	<b>171</b>

## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Works - Water Supply System

\$ 000's

#### Facilities Management

<ul style="list-style-type: none"> <li>◆ Proposed new position representing 0.271 FTE, to start July 1, 2020:                             <ul style="list-style-type: none"> <li>◆ One (1) Senior Project Coordinator to provide support in the delivery of facility capital projects driven by growth and asset management requirements. This position is shared with General Tax, Sanitary Sewerage and Solid Waste Management (Annualized impact is \$32k) (0.271 FTE)</li> </ul> </li> <li>◆ Transfer of one (1) vacant position from Engineering and Staff Support - Real Estate (0.140 FTE)</li> <li>◆ Decrease to reflect re-distribution of resources across funds based on a review of activities undertaken by the Design, Construction and Asset Management section</li> <li>◆ Upgrades of various existing positions to reflect changing workforce requirements</li> <li>◆ Increase for temporary staff to support the Regional Headquarters optimization project</li> <li>◆ Increase in grounds maintenance costs at various locations based on historical actuals</li> <li>◆ Increase in snow removal costs at various locations based on base and historical actuals</li> <li>◆ Increase in janitorial service costs based on new standing agreements</li> <li>◆ Increase in hoist maintenance and repair costs based on historical actuals</li> <li>◆ Increase for minor assets and equipment, UPS battery replacement at the Oshawa/Whitby Depot, and hoist reconditioning at the Sunderland Depot</li> <li>◆ Major building renovations, including epoxy coating for vehicle storage areas at the Ajax and Sunderland Depots (\$107k), replacement of generator steel enclosure, concrete slab and driveway paving at Cannington Wells (\$135k), chemical room ceiling paint at Oshawa WSP (\$200k), Oshawa/Whitby depot renovations (\$96k) and various minor repairs and renovations at multiple Durham facilities (\$171k) .</li> <li>◆ Adjustments to reflect actual costs and forecasted requirements in various accounts</li> </ul>	<p>16</p> <p>16</p> <p>(99)</p> <p>27</p> <p>64</p> <p>6</p> <p>25</p> <p>25</p> <p>16</p> <p>28</p> <p>709</p> <p>45</p> <hr style="border: 0.5px solid black;"/> <p><b>878</b></p>
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#### Administration

<ul style="list-style-type: none"> <li>◆ Adjustments to reflect actual costs and forecasted requirements in various accounts</li> </ul>	<p>1</p> <hr style="border: 0.5px solid black;"/> <p><b>1</b></p>
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#### Tangible Capital Assets

<ul style="list-style-type: none"> <li>◆ Program changes include the acquisition of new assets and the replacement of assets related to depot operations, plant and facilities management, fleet, equipment and construction projects, including the construction of municipal services. Refer to capital schedules for detailed information</li> </ul>	<p>3,068</p> <hr style="border: 0.5px solid black;"/>
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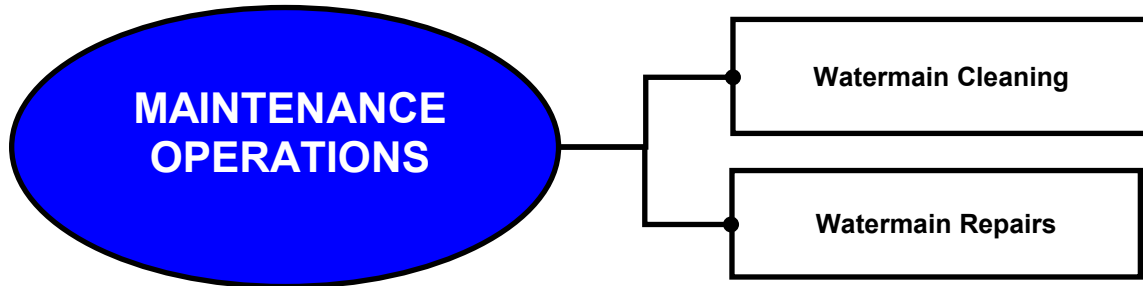
**Total Program Changes** 5,897

# PROGRAM 1 WATERMAIN CLEANING AND REPAIRS



## 2020 Program Detail

## Works - Water Supply System



### Purpose:

- ◆ To maintain (clean and repair) and operate the Region's water distribution system in an efficient and cost effective manner for the Region's approximately 179,293 customers and maintain required water for fire protection

### Description of Program Activities:

- ◆ The Region maintains and operates approximately 2,556 km of watermains
- ◆ Dead-end watermains are flushed regularly as determined by Ministry of the Environment, Conservation and Parks (MECP) legislation. Flushing at hydrants and blow offs provides the public with a potable water supply for domestic, institutional, commercial and industrial use
- ◆ Where conditions warrant, such as severe loss of head pressure, sediment build-up or customer complaints about water quality, watermains are cleaned by foam swab methods. Foam swabbing is conducted on a scheduled frequency and as recommended through system reviews. The frequency of cleaning is also dependent upon the operating conditions
- ◆ Repairs to watermain breaks are funded through this program. All major watermain breaks are isolated and repaired immediately upon inspection. All minor leaks are repaired as part of the regular program. Watermain repairs are budgeted at levels that reflect current break patterns, the aging system and increasing inventories
- ◆ Watermains will be cathodically protected against corrosion through the preventative maintenance contract

### Description of Program Resources:

Resources delivering program services are shared with all activity based maintenance activities in the Water Supply, Sanitary Sewerage and General Tax operating budgets. Resource utilization is charged to the activity based programs through maintenance work orders

# PROGRAM 1 WATERMAIN CLEANING AND REPAIRS



## 2020 Program Detail

## Works - Water Supply System

### Performance Measurements:

- ◆ All major watermain breaks are isolated and repaired immediately upon detection
- ◆ Where conditions warrant, watermains are cleaned by foam swab method
- ◆ Preventative Maintenance Contract for cathodic protection of ferrous watermains involves the installation of sacrificial anodes. These prevent corrosion on the exterior surface of the pipe, which in turn prevents corrosion breaks and extends the life of the watermain. The cathodic protection program targets all ductile and cast iron watermains in the Region, and is administered through Technical Support. Each year a contract is awarded for the installation of anodes and test stations
- ◆ The Region has an ongoing Leak Detection program, administered through Technical Support. The surveys are performed on watermains not greater than 200mm in diameter every 5 years and on watermains greater than 200mm in diameter but not greater than 400mm in diameter every 10 years. Each year a contract is awarded for the survey
- ◆ Flushing and Testing of Dead End Watermains: All designated hydrants and blow offs at dead-ends or other extremities shall be flushed on a regular program basis (annually) and tested to ensure that the potable water meets the Ontario Drinking Water Standards. Static water pressure is taken and recorded at each designated hydrant at the time of flushing. Hydrant flushing is done on a complaint basis. Records of problem areas are maintained for investigation and future cleaning or rehabilitation

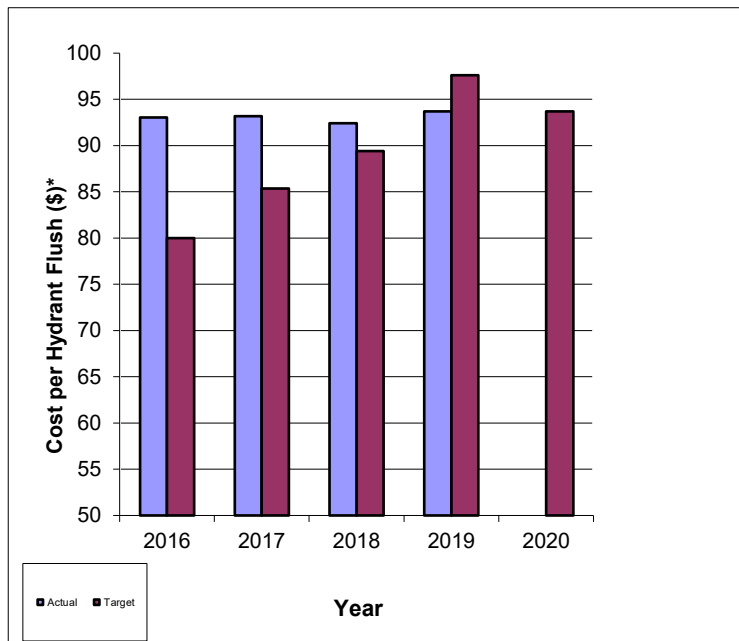
### Units of Service (Flushing Hydrants and Repairing Watermains)

- a) Flush Hydrants
- b) Repair Watermains

	Target 2019*	Proj Actual 2019	Target 2020
a) Flush Hydrants	5,214	5,382	5,168
b) Repair Watermains	191	226	219

\*Restated

### Efficiency:



#### Cost Per Unit of Service - Flushing Hydrants

*Cost per unit includes all labour, materials and equipment utilized in repair activities*

\*Restated

## PROGRAM SUMMARY



### 2020 Business Plan

### Works - Water Supply System

By Program	2019		2020		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
	\$	\$	\$	\$	\$
<b>Expense Programs</b>					
<b>OPERATIONS:</b>					
1 Watermain Cleaning and Repairs	3,612	3,572	3,266	227	3,493
2 Valves and Hydrants	2,428	2,760	2,287	128	2,415
3 Water Connections	3,825	3,968	3,385	339	3,724
4 Water Meters	404	539	412	3	415
5 Depot Operations	5,302	5,674	5,515	226	5,741
<b>Subtotal</b>	<b>15,571</b>	<b>16,513</b>	<b>14,865</b>	<b>923</b>	<b>15,788</b>
<b>PLANTS:</b>					
6 Plants East	2,553	2,837	2,842	220	3,062
7 Plants Central	13,383	13,085	13,430	599	14,029
8 Plants North	2,536	2,926	2,943	37	2,980
9 Sunvalley	-	-	-	-	-
10 SCADA Systems	-	-	-	-	-
<b>Subtotal</b>	<b>18,472</b>	<b>18,848</b>	<b>19,215</b>	<b>856</b>	<b>20,071</b>
<b>COMMON SERVICES:</b>					
11 Engineering and Staff Support	5,516	6,702	6,664	171	6,835
12 Facilities Management	6,551	6,574	6,708	878	7,586
13 Administration	279	315	318	1	319
14 Headquarters Shared Cost	1,073	1,073	1,100	-	1,100
<b>Subtotal</b>	<b>13,419</b>	<b>14,664</b>	<b>14,790</b>	<b>1,050</b>	<b>15,840</b>
<b>Total Operating Program Expenses</b>	<b>47,462</b>	<b>50,025</b>	<b>48,870</b>	<b>2,829</b>	<b>51,699</b>

## PROGRAM SUMMARY



### 2020 Business Plan

### Works - Water Supply System

By Program	2019		2020		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>15 Tangible Capital Assets:</b>					
1W Facilities Management - New	82	82	-	947	947
2W - Replacement	1,616	1,616	864	875	1,739
3W Fleet/Equipment - New	687	687	-	661	661
4W - Replacement	966	966	850	490	1,340
5W Construction of Municipal Services	39,047	39,047	39,047	797	39,844
<b>Tangible Capital Assets Subtotal</b>	<b>42,398</b>	<b>42,398</b>	<b>40,761</b>	<b>3,770</b>	<b>44,531</b>
<b>Tangible Capital Assets Revenue &amp; Recoveries:</b>					
6W Facilities Management - Recovery from Reserve / Reserve Fund	-	-	-	(702)	(702)
<b>Tangible Capital Assets Revenue &amp; Recoveries Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(702)</b>	<b>(702)</b>
<b>Net Tangible Capital Assets</b>	<b>42,398</b>	<b>42,398</b>	<b>40,761</b>	<b>3,068</b>	<b>43,829</b>
<b>Net Program Expenses</b>	<b>89,860</b>	<b>92,423</b>	<b>89,631</b>	<b>5,897</b>	<b>95,528</b>
<b>Summary of Increase (Decrease)</b>			<b>(\$2,792)</b>	<b>-3.02%</b>	<b>\$3,105</b> <b>3.36%</b>



## PROGRAM SUMMARY



### 2020 Business Plan

### Works - Water Supply System

#### Summary of Base Budget Changes

	\$	Comments
Salaries & Benefits	168	Economic increases
Salaries & Benefits	135	Annualization (2.312 positions)
Salaries & Benefits	63	2020 Position upgrade (4.370 positions)
Operating Expenses	(56)	Remove one-time items
Operating Expenses	396	Utility Increases
Operating Expenses	48	Property Tax Increases
Operating Expenses	125	Inflationary adjustments
Various	(1,969)	Line-by-Line Review
Fees & Services	17	Remove one-time funding
Minor Assets & Equipment	(9)	Remove one-time items (various)
Major Repairs & Renovations	(73)	Remove one-time items (various)
Tangible Capital Assets	(1,637)	Remove one-time items (various)
	(2,792)	

**PROGRAM 1  
WATERMAIN CLEANING AND REPAIRS**



**2020 Program Detail**

**Works - Water Supply  
System**

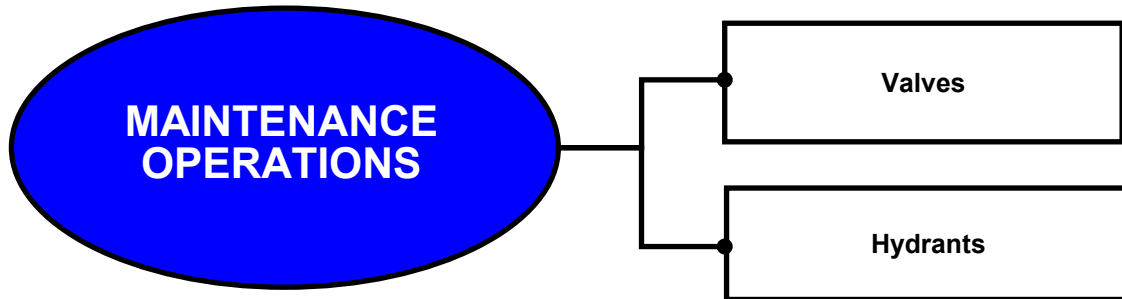
Detailed Cost of Program:	2019		2020		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
Flush at Hydrant - Blowoff	504	509	472	12	484
Repair Watermains	2,512	2,681	2,426	-	2,426
Watermain - Leaks, Swabs, Cathodic Protection	596	382	368	215	583
<b>Net Program Expenses</b>	<b>3,612</b>	<b>3,572</b>	<b>3,266</b>	<b>227</b>	<b>3,493</b>

## PROGRAM 2 VALVES AND HYDRANTS



### 2020 Program Detail

### Works - Water Supply System



#### Purpose:

- ◆ To maintain and operate the Region's water valves and hydrants in an efficient and cost effective manner and ensure that all hydrants and valves are in working condition when they are operated

#### Description of Program Activities:

- ◆ There are 26,808 valves (including air relief valves) and 16,241 hydrants in the Region
- ◆ Valves 300 mm or larger in size are operated to ensure proper working conditions
- ◆ Existing valves are replaced as required
- ◆ Valve boxes are maintained and repaired as required
- ◆ Valve chambers are repaired as required
- ◆ Hydrants are repaired as required

#### Description of Program Resources:

Resources delivering program services are shared with all activity based maintenance activities in the Water Supply, Sanitary Sewerage and General Tax operating budgets. Resource utilization is charged to the activity based programs through maintenance work orders

# PROGRAM 2 VALVES AND HYDRANTS



## 2020 Program Detail

## Works - Water Supply System

### Performance Measurements:

- ◆ All line valves 300 mm in diameter and larger are operated annually
- ◆ All line valves less than 300 mm in diameter are operated every four years
- ◆ All valve chambers to be pumped dry and inspected annually
- ◆ All hydrants to have control valves installed on a program basis
- ◆ All hydrants to be inspected and tested annually in accordance with Regional standards

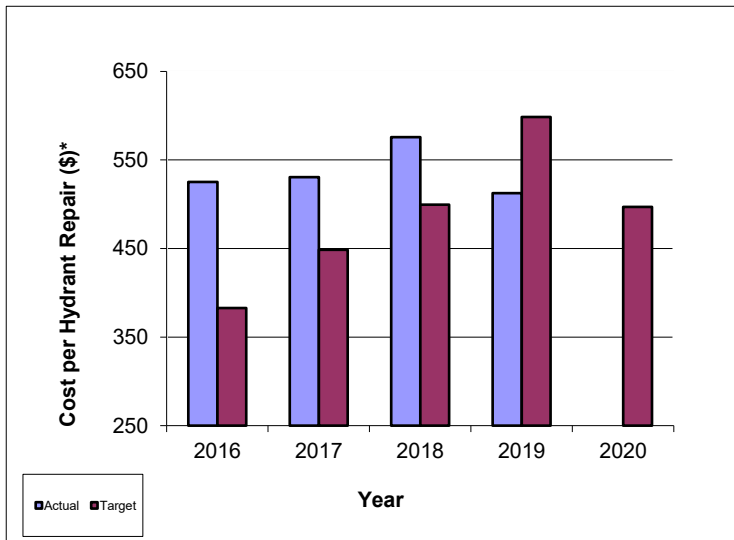
### Units of Service (Valve and Hydrant Repairs, Hydrant Inspections)

- a) Valve Repairs
- b) Hydrant Inspections
- c) Hydrant Repairs

Target 2019*	Proj Actual 2019	Target 2020
176	118	147
41,144	31,558	40,363
1,037	1,093	1,093

\*Restated

### Efficiency:



#### Cost Per Unit of Service Hydrant Repairs

*Cost per unit includes all labour, materials and equipment utilized in the repair activities. The cost is an average across the depots, which encounter varying conditions and maintenance issues on a repair by repair basis.*

\*Restated

**PROGRAM 2  
VALVES AND HYDRANTS**



**2020 Program Detail**

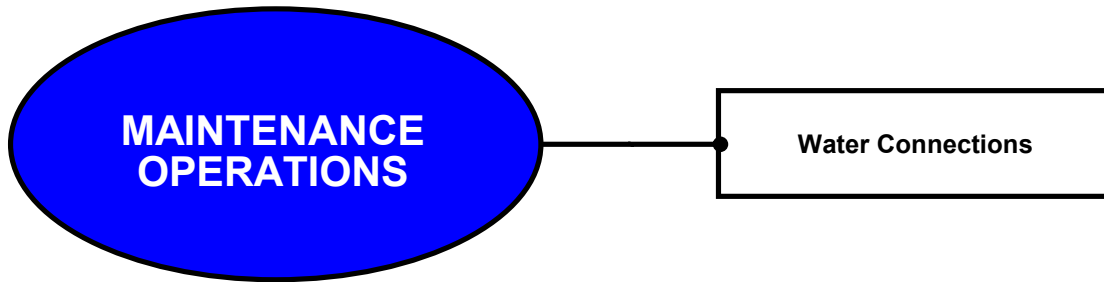
**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
Operation & Inspection	394	409	372	7	379
Repair - Recondition Valves	440	507	405	18	423
Maintain Valve Boxes	483	426	399	57	456
Valve Records - Operations Staff	90	109	86	-	86
Hydrant Inspection & Operation	736	750	714	22	736
AntiTamper Device (Install / Remove)	6	10	6	-	6
Hydrant Repair	560	652	543	-	543
Hydrant Painting	103	116	108	6	114
Hydrant Fire Flow Testing	15	27	17	13	30
Hydrant Other	95	105	99	1	100
Hydrant Permits	(494)	(351)	(462)	4	(458)
<b>Net Program Expenses</b>	<b>2,428</b>	<b>2,760</b>	<b>2,287</b>	<b>128</b>	<b>2,415</b>



**2020 Program Detail**

**Works - Water Supply  
System**



**Purpose:**

- ◆ To maintain and operate the Region's water connections in an efficient and cost effective manner for the Region's approximately 179,293 customers and provide potable water for domestic use and fire protection; prevent damage to private and public property; protect public investment in the water system by maintaining maximum capacities and extending useful life of system; and to prevent loss of water causing excessive flow rates, low pressure, increased pumpage and treatment

**Description of Program Activities:**

- ◆ Water service connections are repaired or renewed as required

**Description of Program Resources:**

Resources delivering program services are shared with all activity based maintenance activities in the Water Supply, Sanitary Sewerage and General Tax operating budgets. Resource utilization is charged to the activity based programs through maintenance work orders



**2020 Program Detail**

**Works - Water Supply System**

**Performance Measurements:**

- ◆ All major service connection breaks on street are isolated and repaired upon detection
- ◆ All service valves on water services 100 mm in diameter and larger are operated every four years
- ◆ All curb stops on water services 50 mm in diameter and less are operated/repaired based on customer complaints

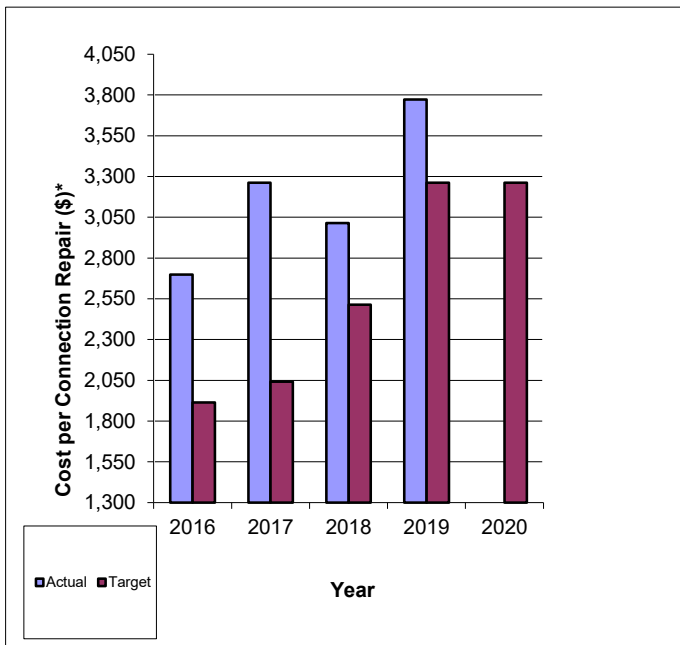
**Units of Service**

a) Water Service Connection Repairs

Target 2019*	Proj Actual 2019	Target 2020
795	631	710

\* restated

**Efficiency:**



**Cost Per Unit of Service - Water Service Connection Repairs**

*Cost per unit includes all labour, materials and equipment utilized in the repair activities. The cost is an average across the depots, which encounter varying conditions and maintenance issues on a repair by repair basis.*

\*Restated

**PROGRAM 3  
WATER CONNECTIONS**



**2020 Program Detail**

**Works - Water Supply  
System**

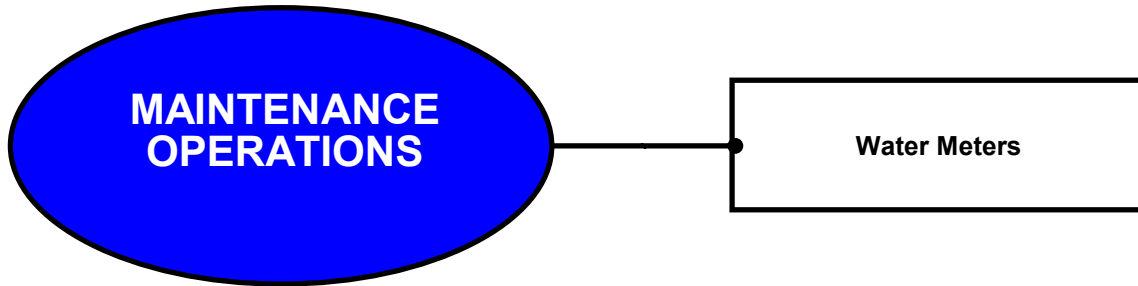
<b>Detailed Cost of Program:</b> (\$,000's)	<b>2019</b>		<b>2020</b>		
	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
Water Service Repair	2,381	2,593	2,171	146	2,317
Inspect Service Boxes	219	209	181	31	212
Water Service Box Repair	1,225	1,166	1,033	162	1,195
<b>Net Program Expenses</b>	<b>3,825</b>	<b>3,968</b>	<b>3,385</b>	<b>339</b>	<b>3,724</b>





**2020 Program Detail**

**Works - Water Supply System**



**Purpose:**

- ◆ To maintain the inventory of water meters and the water supply system to accurately measure the consumption of water to maximize revenue for the Region

**Description of Program Activities:**

- ◆ Existing residential meters are scheduled to be replaced when they are 20 years old depending on available funds and the conditions of the meters
- ◆ Meters larger than 17 mm will be tested, repaired and replaced as required in accordance with the existing service levels
- ◆ Meters will be removed due to demolitions and winter conditions as required

**Description of Program Resources:**

Resources delivering program services are shared with all activity based maintenance activities in the Water Supply, Sanitary Sewerage and General Tax operating budgets. Resource utilization is charged to the activity based programs through maintenance work orders

**Performance Measurements:**

- ◆ Water meters are replaced on a routine program at intervals based on the following cycle:
  - 17 mm every 20 years; 19 mm every 15 years; 25 mm every 10 years; and 40 mm every 10 years
- ◆ Water meters 50 mm in size are replaced with a recalibrated meter every 8 years
- ◆ Water meters are tested, overhauled, recalibrated or replaced at intervals in accordance with the following:
  - 75mm every 3 years; 100 mm every 2 years; 150 mm every year; and over 150 mm every 6 months

# PROGRAM 4 WATER METERS



## 2020 Program Detail

## Works - Water Supply System

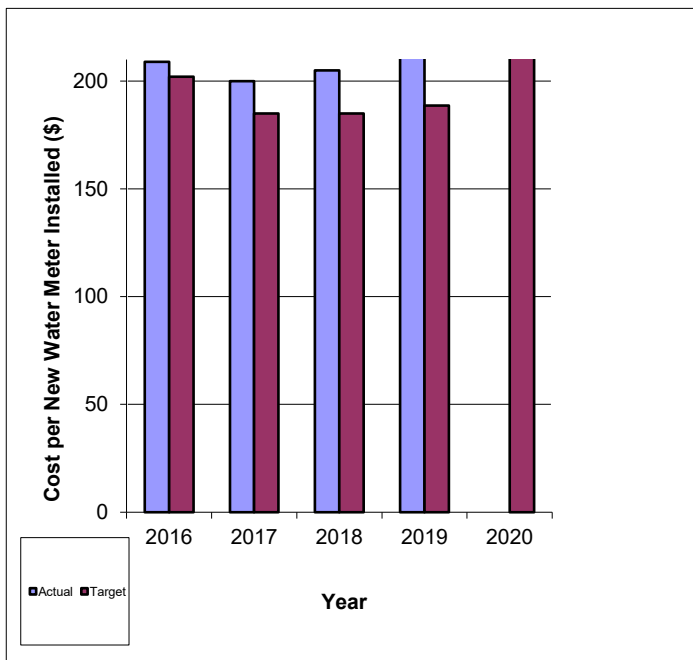
### Units of Service

- a Residential Meter Install and Replace (Capital Item)
- b Large Meter Repair

Target 2019	Proj Actual 2019	Target 2020
6,300	4,434	8,600
757	743	781

Installation of Water Meters is budgeted under Capital Projects; large portion of meter replacement program held in 2019 pending implementation of the new Water Billing software implementation

### Efficiency:



#### Cost Per Unit of Service - Installation of New Residential Water Meters

*Cost per unit includes all labour, materials and equipment utilized. Installation and replacement of water meters is categorized as capital.*

**PROGRAM 4  
WATER METERS**



**2020 Program Detail**

**Works - Water Supply  
System**

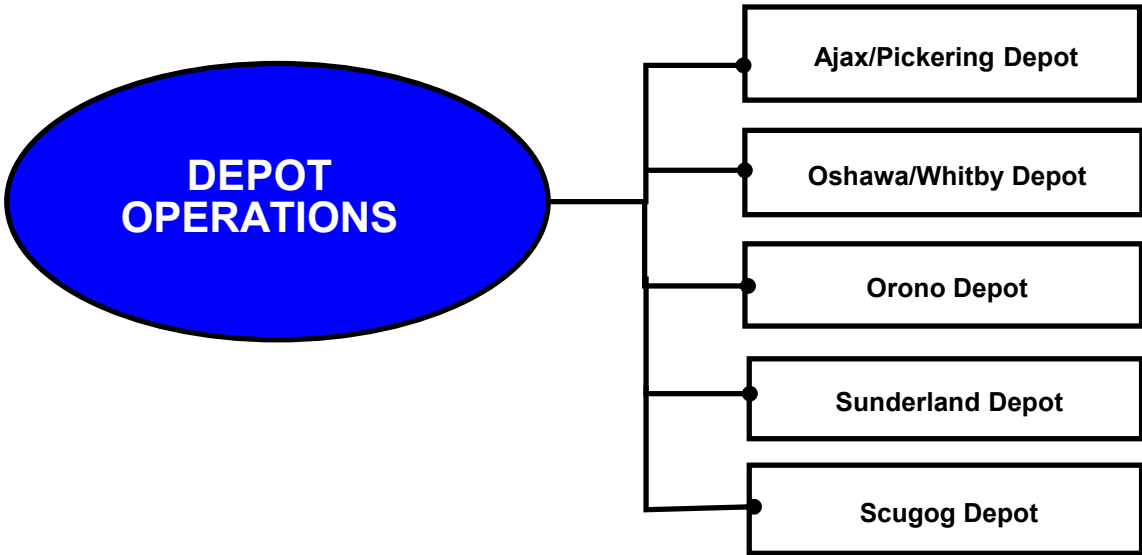
<b>Detailed Cost of Program:</b> (\$,000's)	<b>2019</b>		<b>2020</b>		
	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
Meter Repair - Calibration	84	95	80	1	81
Large Meter Repair	295	422	310	-	310
Remove Meters	25	22	22	2	24
<b>Net Program Expenses</b>	<b>404</b>	<b>539</b>	<b>412</b>	<b>3</b>	<b>415</b>

# PROGRAM 5 DEPOT OPERATIONS



## 2020 Program Detail

## Works - Water Supply System



### Purpose:

- ◆ To provide leadership and direction to the Works depots, effectively monitoring and managing activities including water connections, water meters, and watermain cleaning and repairs, ensuring compliance with approved budgets and policy guidelines

### Description of Program Activities:

- ◆ To provide the administrative services required to support depot-related maintenance activities (i.e. water connections, water meters, watermain cleaning and repairs)
- ◆ Maintain proper inventory records

### Description of Program Resources:

- ◆ 2020 Full Time Employees 16.174
- ◆ 2019 Full Time Employees 15.844

One (1) Vehicle and Equipment Trainer to support the expanded role in providing training to vehicle and equipment operators in all Regional departments and divisions. This position is shared with General Tax and Sanitary Sewerage (0.330 FTE)

**PROGRAM 5  
DEPOT OPERATIONS**



**2020 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program:	2019		2020		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Operating Expenses</b>					
Personnel Expenses	1,724	2,048	2,058	86	2,144
Payroll Maintenance Management - Charge	2,852	2,434	2,385	37	2,422
Payroll Maintenance Management - Recovery	-	-	-	-	-
<b>Net Personnel Expenses</b>	<b>4,576</b>	<b>4,482</b>	<b>4,443</b>	<b>123</b>	<b>4,566</b>
Personnel Related	592	577	568	1	569
Communications	169	178	177	17	194
Supplies	163	192	188	5	193
Computer Maintenance & Operations	-	-	-	10	10
Materials & Services	17	74	67	-	67
Buildings & Grounds Operations	60	60	60	6	66
Equipment Maintenance & Repairs	3	3	3	-	3
Vehicle Operations	29	385	322	-	322
Professional Services	-	-	-	50	50
Minor Assets & Equipment	-	3	-	-	-
Major Repairs-Mach-Equip	-	8	-	-	-
Major Renovations-Building	-	13	-	3	3
Major Repairs & Renovations	-	21	-	3	3
<b>Operating Expenses Subtotal</b>	<b>5,609</b>	<b>5,975</b>	<b>5,828</b>	<b>215</b>	<b>6,043</b>
<b>Transfers from Related Entities</b>					
NextGen Charges	30	29	29	3	32
<b>Transfers from Related Entities Subtotal</b>	<b>30</b>	<b>29</b>	<b>29</b>	<b>3</b>	<b>32</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Recovery from Fleet	(236)	(246)	(259)	8	(251)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(236)</b>	<b>(246)</b>	<b>(259)</b>	<b>8</b>	<b>(251)</b>
<b>Gross Operating Expenses</b>	<b>5,403</b>	<b>5,758</b>	<b>5,598</b>	<b>226</b>	<b>5,824</b>

**PROGRAM 5  
DEPOT OPERATIONS**



**2020 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Tangible Capital Assets</b>					
New	494	494	-	573	573
Replacement	8	8	1	20	21
<b>Total Tangible Capital Assets</b>	<b>502</b>	<b>502</b>	<b>1</b>	<b>593</b>	<b>594</b>
<b>Total Expenses</b>	<b>5,905</b>	<b>6,260</b>	<b>5,599</b>	<b>819</b>	<b>6,418</b>
<b>Revenues</b>					
Fees & Service Charges	(74)	(61)	(61)	-	(61)
Sundry Revenue	(27)	(23)	(22)	-	(22)
<b>Total Revenues</b>	<b>(101)</b>	<b>(84)</b>	<b>(83)</b>	<b>-</b>	<b>(83)</b>
<b>Net Program Expenses</b>	<b>5,804</b>	<b>6,176</b>	<b>5,516</b>	<b>819</b>	<b>6,335</b>

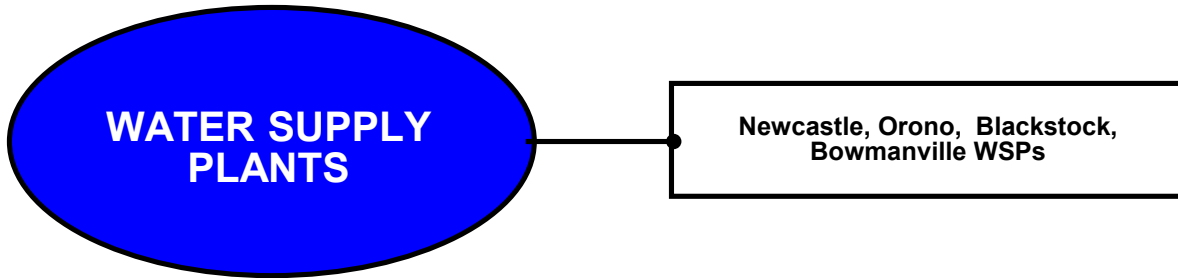
\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	6,335
Less: Tangible Capital Assets	(594)
Net Operating Program Expenses Per Program Summary	<u>5,741</u>



**2020 Program Detail**

**Works - Water Supply System**



**Purpose:**

- ◆ To supply the public with safe, potable, aesthetically acceptable water
- ◆ To ensure all quality and quantity requirements are addressed

**Description of Program Activities:**

- ◆ Operate the water supply system for the communities in the Municipality of Clarington and the Township of Scugog (Blackstock), consisting of 2 surface water plants, 1 elevated tank, 2 standpipes, 4 wells, 4 storage facilities and 3 pumping stations
- ◆ Continuously monitor water quality
- ◆ Maintain pressures, flows and levels in the distribution system
- ◆ Maintain records of plants and system flows, pressures, levels and all other operating parameters
- ◆ Perform both scheduled and breakdown maintenance on all equipment
- ◆ Provide training for staff on process, safety, new equipment and all other related topics
- ◆ Collect water samples throughout the system for quality assurance purposes
- ◆ Administer programs required under the Ministry of the Environment, Conservation and Parks (MECP) Acts and Regulations
- ◆ Participate in the construction of facilities within the service area

**Description of Program Resources:**

- ◆ 2020 Full Time Employees            9.830
- ◆ 2019 Full Time Employees           9.330

Reallocation of a portion of Chief Maintenance Operator position from Plants North (0.500 FTE)



**2020 Program Detail**

**Works - Water Supply System**

**Performance Measurements:**

- ◆ Cost per megalitre of water treated
- ◆ Number of emergency callouts
- ◆ Number of boil water advisories issued annually

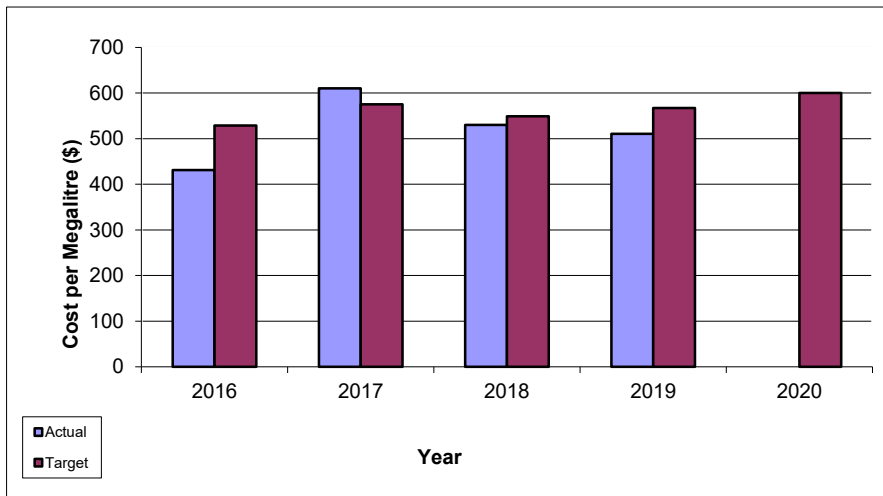
**Units of Service**

- a) Megalitres of water treated at the plant
- b) Number of Emergency Callouts
- c) Number of Boil Water Advisories

Target 2019	Proj Actual 2019	Target 2020
5,000	5,000	5,100
375	375	380
0	0	0

**Efficiency:**

**Cost per Megalitre of Treated Water**





**PROGRAM 6  
PLANTS EAST**



**2020 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Operating Expenses</b>					
Personnel Expenses	1,144	1,382	1,388	96	1,484
Personnel Related	26	33	32	4	36
Communications	91	89	89	7	96
Supplies	195	170	170	13	183
Utilities	537	538	581	-	581
Chemicals	67	55	55	17	72
Computer Maintenance & Operations	11	12	12	8	20
Materials & Services	13	15	14	-	14
Equipment Maintenance & Repairs	77	102	92	-	92
Vehicle Operations	42	53	53	4	57
Professional Services	15	63	63	-	63
Minor Assets & Equipment	-	-	-	10	10
Major Repairs & Renovations	30	30	-	25	25
<b>Operating Expenses Subtotal</b>	<b>2,248</b>	<b>2,542</b>	<b>2,549</b>	<b>184</b>	<b>2,733</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works - SCADA Group Charge	200	200	203	16	219
Works - Regional Environmental Lab Charge	141	138	138	20	158
Works - Ajax WSP - Labour Charge	42	46	41	-	41
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>383</b>	<b>384</b>	<b>382</b>	<b>36</b>	<b>418</b>
<b>Gross Operating Expenses</b>	<b>2,631</b>	<b>2,926</b>	<b>2,931</b>	<b>220</b>	<b>3,151</b>
<b>Tangible Capital Assets</b>					
New	104	104	-	4	4
Replacement	220	220	92	200	292
<b>Total Tangible Capital Assets</b>	<b>324</b>	<b>324</b>	<b>92</b>	<b>204</b>	<b>296</b>
<b>Total Expenses</b>	<b>2,955</b>	<b>3,250</b>	<b>3,023</b>	<b>424</b>	<b>3,447</b>

**PROGRAM 6  
PLANTS EAST**



**2020 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Revenues</b>					
Fees & Service Charges	(78)	(89)	(89)	-	(89)
<b>Total Revenues</b>	<b>(78)</b>	<b>(89)</b>	<b>(89)</b>	<b>-</b>	<b>(89)</b>
<b>Net Program Expenses</b>	<b>2,877</b>	<b>3,161</b>	<b>2,934</b>	<b>424</b>	<b>3,358</b>

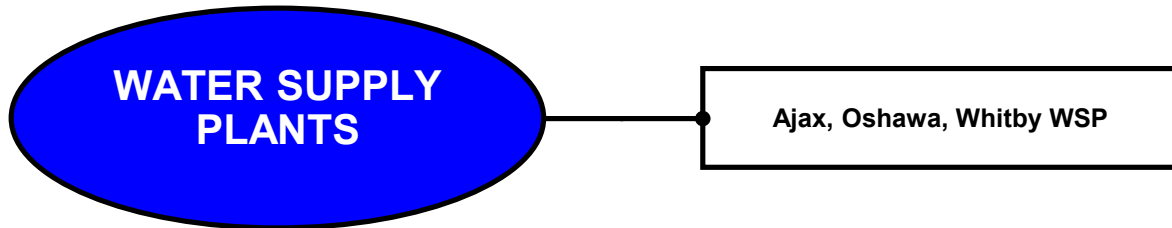
\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	3,358
Less: Tangible Capital Assets	(296)
Net Operating Program Expenses Per Program Summary	<u>3,062</u>



**2020 Program Detail**

**Works - Water Supply System**



**Purpose:**

- ◆ To supply the public with safe, potable, aesthetically acceptable water
- ◆ To ensure all quality and quantity requirements are addressed

**Description of Program Activities:**

- ◆ Operate and maintain 3 water supply plants, 13 remote water pumping stations and 11 storage facilities in compliance with provincial legislation
- ◆ Continuously monitor water quality
- ◆ Maintain pressures, flows and levels in the distribution system
- ◆ Maintain records of plants and system flows, pressures, levels and all other operating parameters
- ◆ Perform both scheduled and breakdown maintenance on all equipment
- ◆ Provide training for staff on process, safety, new equipment and all other related topics
- ◆ Collect water samples throughout the system for quality assurance purposes
- ◆ Administer programs required under the Ministry of the Environment, Conservation and Parks (MECP) Acts and Regulations
- ◆ Participate in the construction of facilities within the service area
- ◆ Maintain standby diesel equipment in water supply plants, water pollution control plants, pumping stations, long-term care facilities, Regional Headquarters and paramedic response stations
- ◆ Maintain and expand SCADA systems throughout water supply plants, water pollution control plants, pumping stations and storage facilities

**Description of Program Resources:**

- ◆ 2020 Full Time Employees            46.430
- ◆ 2019 Full Time Employees            45.430
- ◆ One (1) Works Technician 3 to enhance the maintenance program required for compliance with water regulations (1.000 FTE)
- ◆ One (1) Maintenance Operator to meet regulatory compliance required with the implementation of the Integrated Water SCADA system (1.000 FTE)
- ◆ Reallocation of one (1) SCADA Technologist to SCADA Systems to reflect actual usage (-1.000 FTE)



**2020 Program Detail**

**Works - Water Supply System**

**Performance Measurements:**

- ◆ Cost per megalitre of water treated
- ◆ Number of emergency callouts
- ◆ Number of boil water advisories issued annually

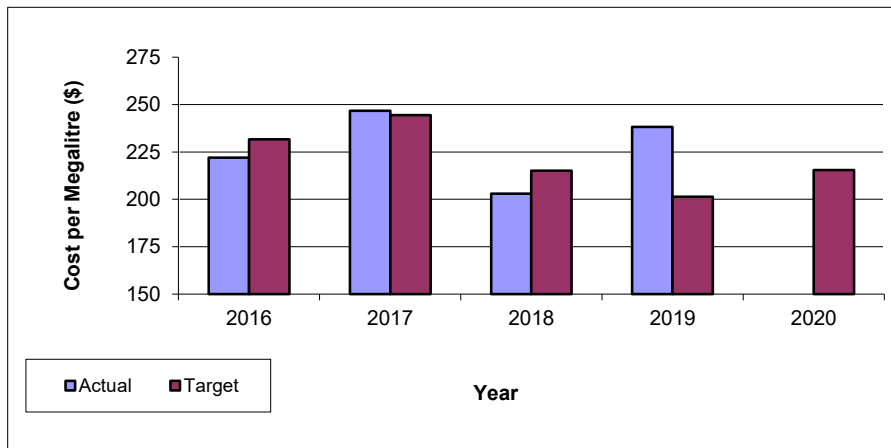
**Units of Service**

- a) Megalitre of water treated at the plant
- b) Number of Emergency Callouts
- c) Number of Boil Water Advisories

Target 2019	Proj Actual 2019	Target 2020
65,000	56,172	65,000
250	211	250
0	0	0

**Efficiency:**

Cost per Megalitre of Treated Water



**PROGRAM 7  
PLANTS CENTRAL**



**2020 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	5,238	5,389	5,448	264	5,712
Personnel Related	102	125	123	9	132
Communications	206	218	217	14	231
Supplies	889	845	774	11	785
Utilities	5,016	4,595	4,965	-	4,965
Chemicals	551	614	614	-	614
Computer Maintenance & Operations	125	123	123	35	158
Materials & Services	71	66	58	1	59
Equipment Maintenance & Repairs	477	506	506	(50)	456
Vehicle Operations	406	338	332	4	336
Professional Services	86	98	98	-	98
Major Repairs & Renovations	-	-	-	155	155
<b>Operating Expenses Subtotal</b>	<b>13,167</b>	<b>12,917</b>	<b>13,258</b>	<b>443</b>	<b>13,701</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works - SCADA Group Charge	292	321	326	26	352
Works - Regional Environmental Lab Charge	208	209	209	33	242
Recovery - Works - Ajax WSP- Labour	(148)	(160)	(160)	21	(139)
Recovery - Sunvalley	(20)	(24)	(24)	-	(24)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>332</b>	<b>346</b>	<b>351</b>	<b>80</b>	<b>431</b>
<b>Gross Operating Expenses</b>	<b>13,499</b>	<b>13,263</b>	<b>13,609</b>	<b>523</b>	<b>14,132</b>
<b>Tangible Capital Assets</b>					
New	29	29	-	38	38
Replacement	290	290	264	-	264
<b>Total Tangible Capital Assets</b>	<b>319</b>	<b>319</b>	<b>264</b>	<b>38</b>	<b>302</b>
<b>Total Expenses</b>	<b>13,818</b>	<b>13,582</b>	<b>13,873</b>	<b>561</b>	<b>14,434</b>

**PROGRAM 7  
PLANTS CENTRAL**



**2020 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Revenues</b>					
Fees & Service Charges	(94)	(102)	(103)	-	(103)
Sundry Revenue	(22)	(76)	(76)	76	-
<b>Total Revenues</b>	<b>(116)</b>	<b>(178)</b>	<b>(179)</b>	<b>76</b>	<b>(103)</b>
<b>Net Program Expenses</b>	<b>13,702</b>	<b>13,404</b>	<b>13,694</b>	<b>637</b>	<b>14,331</b>

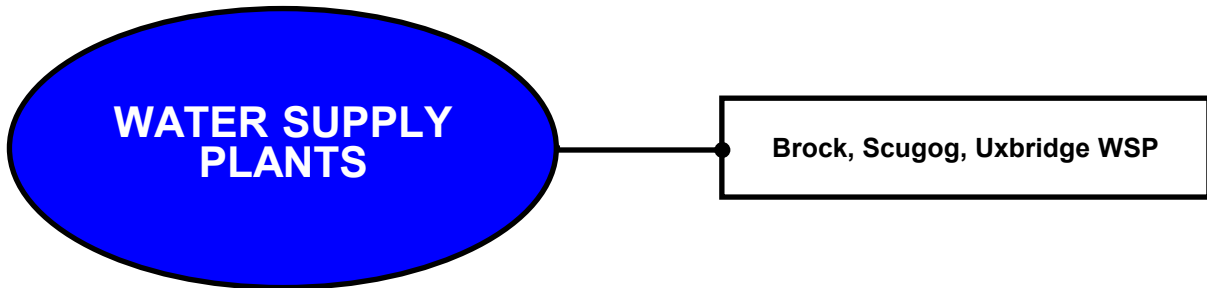
\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	14,331
Less: Tangible Capital Assets	(302)
Net Operating Program Expenses Per Program Summary	<u>14,029</u>



**2020 Program Detail**

**Works - Water Supply System**



**Purpose:**

- ◆ To supply the public with safe, potable, aesthetically acceptable water
- ◆ To ensure all quality and quantity requirements are addressed

**Description of Program Activities:**

- ◆ Operate the water supply system for 7 communities consisting of 21 wells, 1 surface water plant, 5 towers/standpipes and 2 storage facilities
- ◆ Continuously monitor water quality
- ◆ Maintain pressures, flows and levels in the distribution system
- ◆ Maintain records of plants and system flows, pressures, levels and all other operating parameters
- ◆ Perform both scheduled and breakdown maintenance on all equipment
- ◆ Provide training for staff on process, safety, new equipment and all other related topics
- ◆ Collect water samples throughout the system for quality assurance purposes
- ◆ Administer programs required under the Ministry of the Environment, Conservation and Parks (MECP) Acts and Regulations
- ◆ Participate in the construction of facilities within the service area

**Description of Program Resources:**

- ◆ 2020 Full Time Employees            9.330
- ◆ 2019 Full Time Employees           9.830

Reallocation of a portion of Chief Maintenance Operator position to Plants East (-0.500 FTE)

**Performance Measurements:**

- ◆ Cost per megalitre of water treated
- ◆ Number of emergency callouts
- ◆ Number of boil water advisories issued annually



**2020 Program Detail**

**Works - Water Supply System**

**Performance Measurements: (continued)**

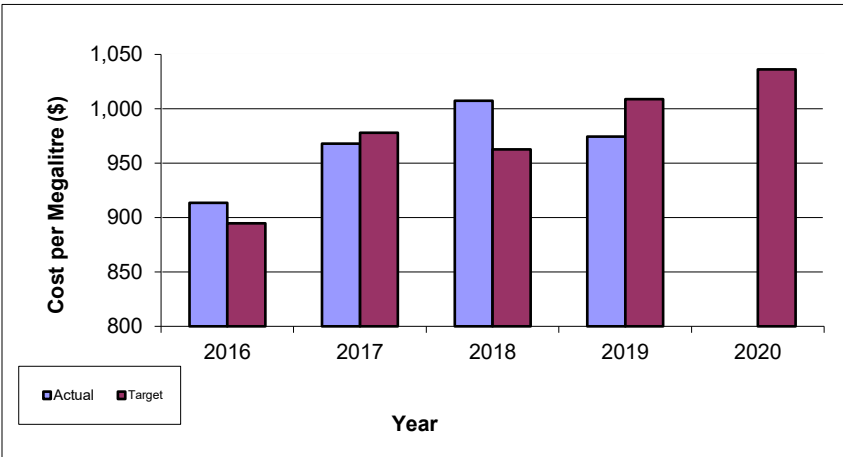
**Units of Service**

- a) Megalitre of water treated at the plant
- b) Number of Emergency Callouts
- c) Number of Boil Water Advisories

Target 2019	Proj Actual 2019	Target 2020
2,900	2,602	2,900
250	324	300
0	0	0

**Efficiency:**

**Cost per Megalitre of Treated Water**





**PROGRAM 8  
PLANTS NORTH**



**2020 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	1,050	1,232	1,302	(54)	1,248
Personnel Related	25	46	46	5	51
Communications	81	102	100	-	100
Supplies	264	313	278	-	278
Utilities	400	457	439	-	439
Chemicals	124	120	120	10	130
Computer Maintenance & Operations	14	7	7	4	11
Materials & Services	13	19	19	-	19
Equipment Maintenance & Repairs	150	162	161	15	176
Vehicle Operations	112	103	103	2	105
Professional Services	53	65	65	-	65
Major Repairs & Renovations	-	-	-	20	20
<b>Operating Expenses Subtotal</b>	<b>2,286</b>	<b>2,626</b>	<b>2,640</b>	<b>2</b>	<b>2,642</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works - SCADA Group Charge	104	180	183	15	198
Works - Regional Environmental Lab Charge	227	210	210	20	230
Works - Ajax WSP - Labour Charge	10	10	10	-	10
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>341</b>	<b>400</b>	<b>403</b>	<b>35</b>	<b>438</b>
<b>Gross Operating Expenses</b>	<b>2,627</b>	<b>3,026</b>	<b>3,043</b>	<b>37</b>	<b>3,080</b>
<b>Tangible Capital Assets</b>					
New	60	60	-	2	2
Replacement	245	245	475	120	595
<b>Total Tangible Capital Assets</b>	<b>305</b>	<b>305</b>	<b>475</b>	<b>122</b>	<b>597</b>
<b>Total Expenses</b>	<b>2,932</b>	<b>3,331</b>	<b>3,518</b>	<b>159</b>	<b>3,677</b>

**PROGRAM 8  
PLANTS NORTH**



**2020 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Revenues</b>					
Fees & Service Charges	(91)	(100)	(100)	-	(100)
<b>Total Revenues</b>	<b>(91)</b>	<b>(100)</b>	<b>(100)</b>	<b>-</b>	<b>(100)</b>
<b>Net Program Expenses</b>	<b>2,841</b>	<b>3,231</b>	<b>3,418</b>	<b>159</b>	<b>3,577</b>

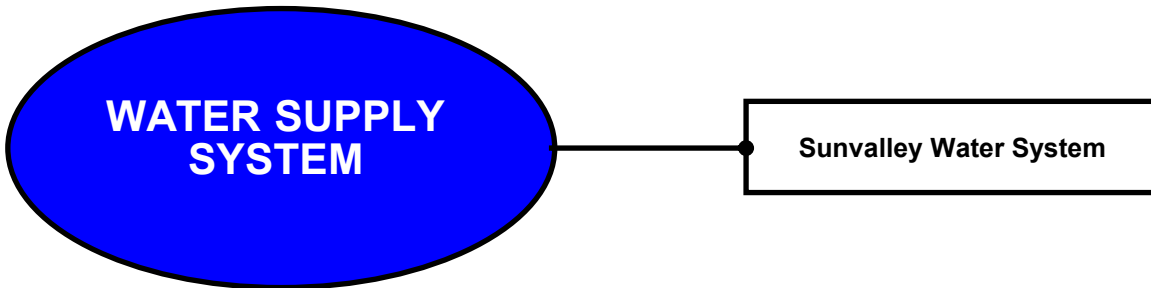
\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	3,577
Less: Tangible Capital Assets	(597)
Net Operating Program Expenses Per Program Summary	<u>2,980</u>



**2020 Program Detail**

**Works - Water Supply System**



**Purpose:**

- ◆ To supply the Sunvalley Community (17 households) with safe, potable, aesthetically acceptable water
- ◆ To ensure all quality and quantity requirements are addressed

**Description of Program Activities:**

- ◆ Operate the private water system in this community in the City of Oshawa as ordered by the Ministry of the Environment, Conservation and Parks (MECP)
- ◆ Carry out maintenance (preventative, breakdown)
- ◆ Maintain records (quality, flow, financial)
- ◆ Train staff in process, safety and other related topics
- ◆ Collect samples throughout the system

**Performance Measurements:**

- ◆ Cost of operation
- ◆ Number of emergency callouts
- ◆ Number of customer complaints
- ◆ Number of boil water advisories issued annually

**Units of Service**

- a) Number of Emergency Callouts
- b) Number of Customer Complaints

Target 2019	Proj Actual 2019	Target 2020
4	6	4
0	0	0



**2020 Program Detail**

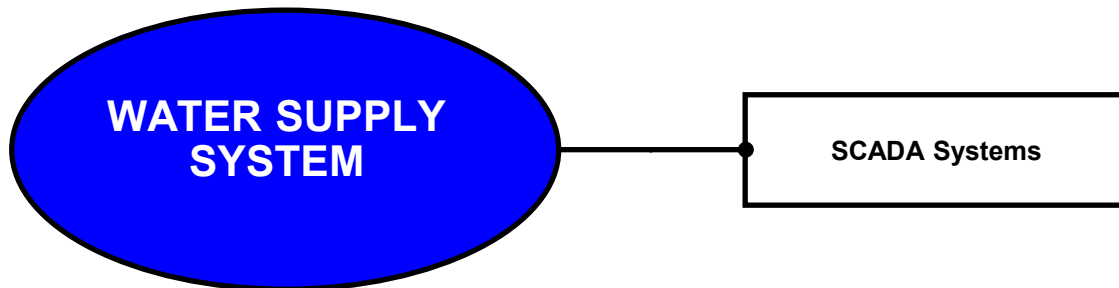
**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b> (\$,000's)	<b>2019</b>		<b>2020</b>		
	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Supplies	-	2	3	-	3
Materials & Services	-	1	1	-	1
Minor Assets & Equipment	-	2	-	2	2
<b>Operating Expenses Subtotal</b>	<b>-</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>6</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Ajax Water Supply Plant Charge	21	24	24	-	24
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>21</b>	<b>24</b>	<b>24</b>	<b>-</b>	<b>24</b>
<b>Total Expenses</b>	<b>21</b>	<b>29</b>	<b>28</b>	<b>2</b>	<b>30</b>
<b>Revenues</b>					
Fees & Service Charges	(21)	(29)	(28)	(2)	(30)
<b>Total Revenues</b>	<b>(21)</b>	<b>(29)</b>	<b>(28)</b>	<b>(2)</b>	<b>(30)</b>
<b>Net Program Expenses</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



**2020 Program Detail**

**Works - Water Supply System**



**Purpose:**

- ◆ The centralized SCADA Systems group located at the Oshawa Water Supply Plant coordinates and plans maintenance and upgrades to the Supervisory Control and Data Acquisition (SCADA) system throughout the Water Supply and Water Pollution Control Plants

**Description of Program Activities:**

- ◆ Address day-to-day issues as well as deal with emergency situations with 24/7 availability
- ◆ Administration and quality control as it relates to SCADA projects
- ◆ Develop and maintain SCADA operating procedures
- ◆ Ensure SCADA standards are adhered to in new asset creation, upgrades and modifications
- ◆ Update and modify Programmable Logic Controller (PLC) programs
- ◆ Provide testing, documenting and install patches throughout SCADA systems
- ◆ Maintain database of data to develop trends for analysis and diagnostics
- ◆ Deployment, troubleshoot, and maintenance of LAN and WAN communication equipment both wired and wireless
- ◆ Secure SCADA network from unauthorized use
- ◆ Research and test new SCADA technologies
- ◆ Commission and decommissioning of SCADA projects and upgrades
- ◆ Assist engineering department with SCADA projects and new initiatives
- ◆ Maintain, replace, and back-up all equipment connected to the SCADA network
- ◆ Contract administration for external support agreements

**Description of Program Resources:**

- ◆ 2020 Full Time Employees            14.660
- ◆ 2019 Full Time Employees           13.660
- ◆ Reallocation of one (1) SCADA Technologist from the Plants Central (1.000 FTE)

**PROGRAM 10  
SCADA SYSTEMS**



**2020 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Operating Expenses</b>					
Personnel Expenses	1,477	1,738	1,781	139	1,920
Personnel Related	117	154	142	18	160
Communications	2	3	3	-	3
Supplies	37	37	37	6	43
Computer Maintenance & Operations	4	6	6	2	8
Materials & Services	45	20	20	-	20
Equipment Maintenance & Repairs	18	18	18	-	18
Professional Services	32	28	28	-	28
<b>Operating Expenses Subtotal</b>	<b>1,732</b>	<b>2,004</b>	<b>2,035</b>	<b>165</b>	<b>2,200</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
SCADA System Recovery	(1,732)	(2,004)	(2,035)	(165)	(2,200)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(1,732)</b>	<b>(2,004)</b>	<b>(2,035)</b>	<b>(165)</b>	<b>(2,200)</b>
<b>Gross Operating Expenses</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Tangible Capital Assets</b>					
New	-	-	-	14	14
Replacement	21	21	-	-	-
<b>Total Tangible Capital Assets</b>	<b>21</b>	<b>21</b>	<b>-</b>	<b>14</b>	<b>14</b>
<b>Net Program Expenses</b>	<b>21</b>	<b>21</b>	<b>-</b>	<b>14</b>	<b>14</b>

\* Tangible Capital Assets are stated separately on the Program Summary

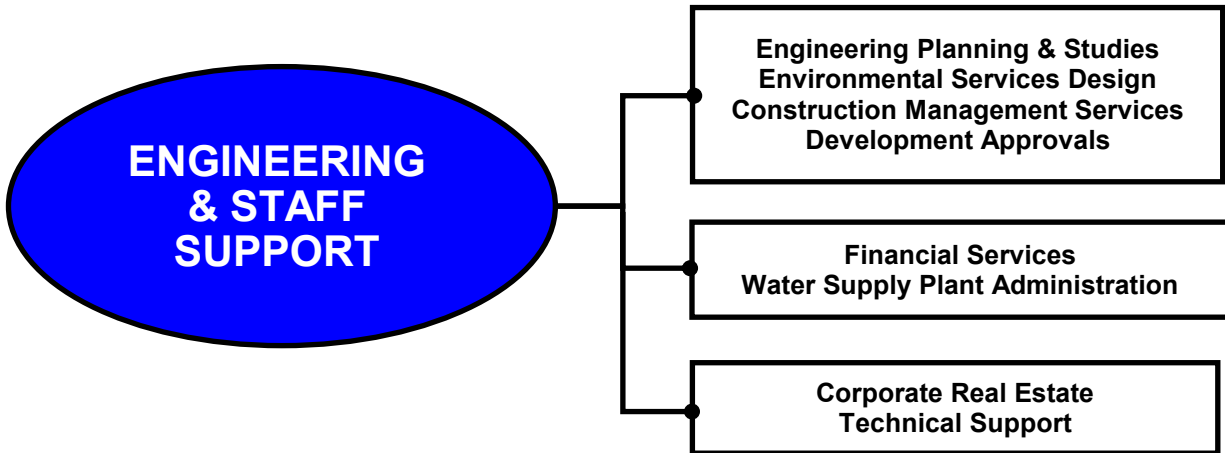
Net Program Expenses Per Above	14
Less: Tangible Capital Assets	(14)
Net Operating Program Expenses Per Program Summary	<u>-</u>

# PROGRAM 11 ENGINEERING AND STAFF SUPPORT



## 2020 Program Detail

## Works - Water Supply System



### Purpose:

Represents the portions of various divisions of the Works Department that are attributable to the Water Supply System including:

#### Engineering Planning and Studies

- ◆ To provide overall leadership and guidance to the various Departments of the Region of Durham which affect long-range planning of the Municipal Water Supply and Distribution Systems and Municipal Wastewater Collection and Treatment Systems; to service existing customers and future customers forecast under the anticipated growth recognized in the Durham Region Official Plan

#### Environmental Services Design

- ◆ To plan, design and initiate construction of water supply system infrastructure to provide service for existing and new customers, in compliance with all applicable legislation and regulations. Water supply infrastructure includes water supply plants, pumping stations, water storage facilities and watermains and appurtenances. To develop and maintain an information database on the linear and vertical assets of the Region's water infrastructure and to regularly update other Divisions and Departments on the condition of these assets which include watermains, water supply plants, pumping stations, storage reservoirs and elevated tanks

#### Construction Management Services

- ◆ To plan, design and construct Regional infrastructure including all roads, sanitary and storm sewers and associated services, watermains and associated services, bridges, culverts, water supply plants and associated wells, pumping stations and modifications, water pollution control plants and associated pumping stations and modifications, all as budgeted for in the current year's business plan including all similar construction necessitated by emergencies

#### Development Approvals

- ◆ To assist and facilitate well planned industrial, commercial and residential development proposals within Durham Region by providing cost effective municipal water, sanitary sewerage and Regional road services, while protecting the interests of the Region and the public

#### Financial Services

- ◆ To provide overall leadership and direction to the various divisions of the Works Department in effectively monitoring and managing expenditures to ensure compliance with approved budgets and policy guidelines



**2020 Program Detail**

**Works - Water Supply  
System**

**Purpose: (continued)**

Water Supply Plant Administration

- ◆ To provide management of the Plant Operations Division including; the co-ordination and monitoring of expenditures, dealing with personnel and administrative issues and planning for the long term operational needs of the division in accordance with policies, guidelines and legislation

Corporate Real Estate

- ◆ To administer and manage the real estate function for the Region including the rental of properties and the purchase of land to facilitate construction of municipal services

Technical Support

- ◆ A technical working group directing and supporting the following programs:
  - Sewer-Use By-Law Enforcement
  - Water/Wastewater Treatment Operations
  - Maintenance Operations (including landfill monitoring)
  - Water Energy Efficiency Programs
  - Data System Management
  - Source Water Protection

**Description of Program Activities:**

The duties and services provided are required to comply with all applicable legislation and represent those areas of the Works Department which relate directly to the provision and management of the water distribution and supply infrastructure. The activities include: engineering planning and studies, detailed design, construction and asset management and ongoing post commissioning support.

Engineering Planning and Studies

- ◆ Develop and implement a comprehensive servicing strategy for the water supply and sanitary sewerage systems throughout the Region through the completion of Official Plan Servicing Studies and providing input into the Development Charges Studies
- ◆ Coordinate the use and protection of our valuable groundwater resources through development of wellhead protection areas, review of land uses within these areas, and liaison with neighbouring municipalities on groundwater management practices
- ◆ Complete Environmental Assessments, as required, for water supply and sanitary sewerage capital projects prior to Capital Projects proceeding to detailed design and construction
- ◆ Provide technical review of applications for new development and comment on availability of water supply and sanitary sewerage services, over-sizing, and ensure that the Region's standards are being met
- ◆ Act as Durham Region representatives on various internal and external Committees related to water supply and sanitary sewerage servicing

Environmental Services Design

- ◆ Plan and implement the rehabilitation/replacement of existing infrastructure in conjunction with Regional and Area Municipality Road programs and independent of road programs. Conduct Asset Management studies to prioritize deficiencies and optimize use of financing for rehabilitation and replacement of existing water supply infrastructure. Design and initiate construction of water supply infrastructure to service existing and new development and in response to new regulations





**2020 Program Detail**

**Works - Water Supply  
System**

**Description of Program Activities: (continued)**

Construction Management Services

- ◆ To provide the administrative services which calculate the budgets for infrastructure projects, develop and award the tenders and oversee the construction projects
- ◆ To provide the contract administrative services required to complete the construction activities including the processing and executing of all required project documentation, bonding and insurance, and progress payments
- ◆ Fulfilling contract requirements such as issuing substantial and final completion certificates, maintaining statutory, deficiency, maintenance and finishing holdbacks and final contract releases
- ◆ To provide required quality control and quality assurance for all construction projects, including topographic surveying and layout, sewer and water infrastructure testing (SWAT), construction inspection, commissioning services, as constructed measurements and maintaining all as constructed drawings, testing of construction materials and providing geotechnical investigations and associated services
- ◆ To provide asset management services including the management and monitoring of the Region's infrastructure assets

Development Approvals

- ◆ Review and process development applications, including land severances, with minimum delay, ensuring that they meet Regional guidelines and standards and services are sized to meet long range Regional servicing objectives
- ◆ Negotiate and prepare draft servicing, subdivision or front ending agreements that are balanced and fair to ensure no adverse financial impact on the Region
- ◆ Assess feasibility, request for funding, coordinate collection charges, issue connection applications and payment agreements and initiate the passage of by-laws for Regional residents who request sewer and/or water service
- ◆ Co-ordinate the Development Charge collection process with local municipalities and the Finance Department to ensure timely issuance of building permits and adequate cash flow from development for the construction of Regional growth related infrastructure
- ◆ Control development to balance available capacities or identify required improvements to accommodate the development by coordinating comments and discussing issues with Local Area Municipalities, other Divisions and Departments

Financial Services

- ◆ Coordinate the preparation of the Works Department Annual Operating and Capital Budgets
- ◆ Manage and execute transactional items to recover costs from internal programs and divisions as well as outside agencies, developers and other area municipalities related to current and capital programs
- ◆ Liaison with the Finance Department and other senior levels of government regarding matters of Budget Management and policy related to funding and expenditures
- ◆ Ensure Works staff meet deadlines set by Regional Council and the Finance Department
- ◆ Provide clerical and administrative support related to committee reports and official correspondence
- ◆ Provide mail and reception services for the Works Department at Regional Headquarters
- ◆ Maintain proper inventory of office materials and supplies for staff use



2020 Program Detail

Works - Water Supply System

Description of Program Activities: (continued)

Water Supply Plant Administration

- ◆ Assist in the preparation of the Plant Operations budget
- ◆ Monitor and approve expenditures in accordance with approved budgets, policies and guidelines
- ◆ Manage divisional administrative needs in accordance with agreements, policies, guidelines and legislative requirements
- ◆ Develop policies, methods and guidelines for the efficient and effective operation of the Region's Water Supply Plant facilities
- ◆ Liaise with government, public and private agencies

Corporate Real Estate

- ◆ Negotiate property agreements for the acquisition of lands and property rights necessary for implementation of Regional programs including the construction of road, sanitary sewerage and water supply projects
- ◆ Co-ordinate the expropriation process where necessary
- ◆ Locate and negotiate lease agreements for facilities required by various Regional Departments and co-ordinate leasehold improvements to the facilities in conjunction with the client and with the Facilities Management Division
- ◆ Manage the rental of Region owned properties, including the collection of rent and the disposal of properties no longer required by the Region
- ◆ Compile and maintain records on all Region owned property including limited interest such as sanitary sewerage and water supply easements, leases, licenses, permission to enter agreements, pipe crossings and encroachments
- ◆ Co-ordinate, plan and schedule the re-registration of easements as directed by Provincial legislation
- ◆ Provide title information and cost estimates related to land and leasing, to other Divisions and Departments, as required

Technical Support

A technical working group directing and supporting the following programs:

◆ *Sewer-Use By-Law Enforcement:*

Enforcement of the Sewer-Use By-law 55-2013, to protect the infrastructure and the treatment facilities, to maintain compliance with regulatory requirements through monitoring, investigation, compliance programs and surcharge agreements and to maintain public/staff safety

◆ *Water/Wastewater Treatment Operations:*

Provide technical support in areas of treatment operations and design, monitoring and reporting for compliance requirements, response and investigation of consumer concerns and enquiries, training of staff, response to adverse water quality issues and related regulatory notifications

◆ *Maintenance Operations:*

Provide technical support in areas of maintenance operations, including contract administration of maintenance and rehabilitation programs for water mains, budget preparation, review of new infrastructure to meet Regional Standards, review of new products, procedures, standards and guidelines

◆ *Water Energy Efficiency Programs:*

The Water Energy Efficiency Program focuses on education of the public and outreach through newsletters, presentations, schools and the Central Lake Ontario Conservation Authority's (CLOCA) Children's Watershed Festival. This program also undertakes innovative water efficiency field studies through partnerships with area municipalities

The Energy Management Group assists plant operation in energy control, and demand reduction projects, conduct energy audits for major energy using Regional Facilities through power monitoring and energy use reduction projects



**2020 Program Detail**

**Works - Water Supply  
System**

**Description of Program Activities: (continued)**

*Data System Management (GIS Group):*

- ◆ The Data System Management (DSM) maintains the linear infrastructure data of the existing Water Supply, Sanitary Sewerage and Storm Sewer System using leading edge Geographical Information System (GIS) technology and provides services to inside and outside users for all cartographic or inventory needs. DSM develops and maintains applications for convenient data access to infrastructure data

**Description of Program Resources:**

- ◆ 2020 Full Time Employees        72.183
- ◆ 2019 Full Time Employees        71.488

Two (2) SWAT Labourers in Construction Management Services to aid with watermain disinfection, sampling and pressure testing for all subdivisions and regional capital construction. This position will be shared with General Tax and Sanitary Sewerage (0.770 FTEs)

Reallocation of resources to Technical Support from other funds based on actual requirements (0.065 FTE)

Transfer of one (1) vacant position from Real Estate to Facilities Management (-0.140 FTE)

**Performance Measurements:**

- ◆ Resources to provide staff for administration/engineering support. Also includes general office expenditures such as telephone costs, office supplies and operating costs
- ◆ Resource Management through budgeting and forecasting future needs
- ◆ Timely receipt of all regulatory approvals to proceed with the refurbishment and construction of water related infrastructure projects
- ◆ Quality control through Construction Inspection and Contract Administration
- ◆ Monitoring the state of the water-related linear infrastructure to optimize the maintenance reinvestment required
- ◆ Coordination of all related activities including safety, real estate and data management
- ◆ Timely delivery of major water supply infrastructure projects to ensure growth and development can proceed as planned
- ◆ Minimizing over expenditures and ensuring that optimum value is obtained for all water infrastructure related expenditures
- ◆ Implementation of water infrastructure projects in full compliance with all applicable municipal, provincial and federal legislation

**PROGRAM 11  
ENGINEERING AND STAFF SUPPORT**



**2020 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program:	2019		2020		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Operating Expenses</b>					
Personnel Expenses	7,780	8,731	8,956	131	9,087
Payroll Maintenance Management - Recovery	(3,730)	(3,986)	(4,141)	(47)	(4,188)
<b>Net Personnel Expenses</b>	<b>4,050</b>	<b>4,745</b>	<b>4,815</b>	<b>84</b>	<b>4,899</b>
Personnel Related	243	292	281	18	299
Communications	84	110	99	6	105
Supplies	48	66	60	20	80
Computer Maintenance & Operations	93	135	133	10	143
Materials & Services	612	563	544	-	544
Equipment Maintenance & Repairs	52	203	203	50	253
Vehicle Operations	24	42	14	(5)	9
Professional Services	424	660	617	(2)	615
Minor Assets & Equipment	4	4	-	4	4
<b>Operating Expenses Subtotal</b>	<b>5,634</b>	<b>6,820</b>	<b>6,766</b>	<b>185</b>	<b>6,951</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Corporate Communications Charge	181	181	181	-	181
Corporate IT Charge	169	169	169	-	169
Corporate HR Charge	85	85	85	-	85
Works - Regional Environmental Lab Charge	9	125	125	(10)	115
Recovery - Works-General Tax	(10)	(9)	(10)	-	(10)
Recovery - Regional Environmental Lab	(44)	(36)	(35)	-	(35)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>390</b>	<b>515</b>	<b>515</b>	<b>(10)</b>	<b>505</b>
<b>Gross Operating Expenses</b>	<b>6,024</b>	<b>7,335</b>	<b>7,281</b>	<b>175</b>	<b>7,456</b>

**PROGRAM 11  
ENGINEERING AND STAFF SUPPORT**



**2020 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Tangible Capital Assets</b>					
New	1	1	-	28	28
Replacement	182	182	18	150	168
<b>Total Tangible Capital Assets</b>	<b>183</b>	<b>183</b>	<b>18</b>	<b>178</b>	<b>196</b>
<b>Total Expenses</b>	<b>6,207</b>	<b>7,518</b>	<b>7,299</b>	<b>353</b>	<b>7,652</b>
<b>Revenues</b>					
Fees & Service Charges	(449)	(551)	(551)	(4)	(555)
Sale of Publications	(19)	(15)	(15)	2	(13)
Sundry Revenue	(40)	(67)	(51)	(2)	(53)
<b>Total Revenues</b>	<b>(508)</b>	<b>(633)</b>	<b>(617)</b>	<b>(4)</b>	<b>(621)</b>
<b>Net Program Expenses</b>	<b>5,699</b>	<b>6,885</b>	<b>6,682</b>	<b>349</b>	<b>7,031</b>

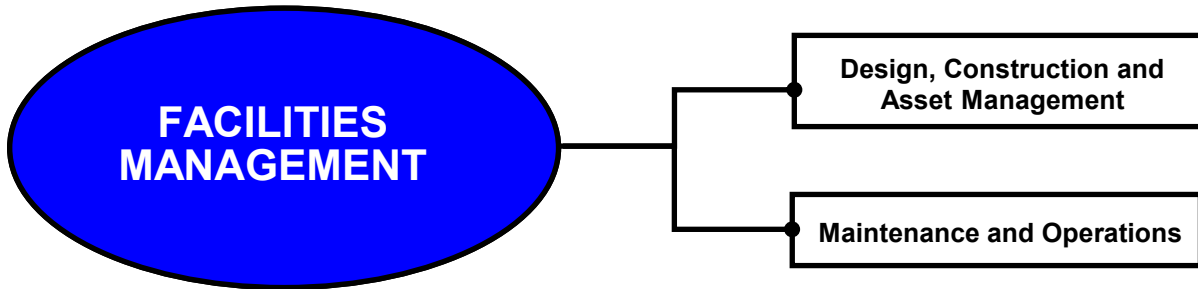
\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	7,031
Less: Tangible Capital Assets	(196)
Net Operating Program Expenses Per Program Summary	<u>6,835</u>



**2020 Program Detail**

**Works - Water Supply  
System**



**Purpose:**

- ◆ Provide overall lifecycle management for Regional facilities including:
  - ◆ Detailed design and construction of new facilities and leasehold improvements
  - ◆ Lifecycle maintenance planning and replacement strategies
  - ◆ Ongoing and preventative maintenance and overall operation of Regional facilities, properties and grounds through Regional and contracted forces
  - ◆ Centralized security services

**Description of Program Activities:**

The Region has 219 facilities with an estimated total area of 435,228 square metres (4.7 million square feet), which generate a significant number of repair and maintenance requests over the course of a year. Major Regional facilities with complex heating, ventilation and air conditioning systems and a large number of occupants create a unique and challenging environment for facility related work

**Design, Construction and Asset Management**

- ◆ The Design, Construction and Asset Management unit provides project management services for all facility capital construction and maintenance projects undertaken by the Region, including those delivered for Social Housing, Long-Term Care and Durham Regional Police Service. The Design, Construction and Asset Management unit is responsible for managing all facets of facility construction projects from their inception through to completion
- ◆ Office design and staff relocation are constant demands on any organization. The Design, Construction and Asset Management unit provides expertise to plan, supervise and implement these changes in a timely and professional manner with minimal effect on staff and the delivery of their programs
- ◆ As facilities age, a greater amount of time and resources is required to maintain them in an acceptable, reliable operating condition, and retain the inherent asset value. The Design, Construction and Asset Management unit is responsible for the Region wide condition and inspection program, which identifies and prioritizes the work required on Regional facilities, providing a life cycle management approach to prioritize state of good repair investments
- ◆ Services provided: Functional Review/Scope of Work determination; Budget estimates; Consultant selection; Council approvals as required; Design review oversight and management; Quotation and tenders; Construction management; Move/relocation management; Commissioning of facility; Warranty management; Project closeout; Post occupancy review; Leasehold renovations or office design and relocation services; Computer Assisted Drafting and Design (CAD) services; Long and short term accommodation studies; Maintain databases; Accommodation planning; Implementation of Interior Renovations; Furniture Management



**2020 Program Detail**

**Works - Water Supply  
System**

**Description of Program Activities (continued):**

**Maintenance and Operations**

- ◆ Water Supply and Water Pollution Control Plants and Pumping Stations, Traffic, Maintenance and Transit Depots, Solid Waste/Recycling locations, Childcare Centres, Paramedic Stations and leased facilities require support, each with special facility maintenance and property needs based on the clientele and use
- ◆ All Regional facilities require service contracts to complement the daily operation of the facility so client programs may be delivered effectively, such as boiler/heating/air systems, elevators, backflow prevention, fire and life safety, ground maintenance and custodial/environmental services
- ◆ Services provided: Planned preventative maintenance; Contract administration; Occupant support; 24/7 Emergency response; Custodial services
- ◆ In addition to the Region's 219 facilities, the Facilities Management division also looks after the security of the Regional Administration Headquarters building, including access control, security patrol and guard services, and CCTV installation, operation and maintenance
- ◆ Services provided: Security access control; Parking management; Response to Emergency Alarm System; Key control administration; Photo I.D. cards; 24/7 response to Security Systems Alarms

**Description of Program Resources:**

- ◆ 2020 Full Time Employees        19.783
- ◆ 2019 Full Time Employees        20.169

One (1) Senior Project Coordinator to provide support in the delivery of Facility related capital projects, driven by growth and asset management requirements. This position is shared with General Tax, Sanitary Sewerage and Solid Waste Management (0.271 FTE)

Transfer of one (1) vacant position from Engineering and Staff Support - Real Estate (0.140 FTE)

Decrease to reflect re-distribution of resources across funds based on a review of activities undertaken by the Design, Construction and Asset Management section (-0.797 FTEs)

**Performance Measurements:**

- ◆ Compliance with all building code standards
- ◆ Monitoring of costs
- ◆ Investigation and resolution of all requests/complaints

**PROGRAM 12  
FACILITIES MANAGEMENT**



**2020 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	2,108	2,273	2,321	45	2,366
Payroll Maintenance Management - Recovery	(498)	(567)	(579)	(14)	(593)
<b>Net Payroll Expenses</b>	<b>1,610</b>	<b>1,706</b>	<b>1,742</b>	<b>31</b>	<b>1,773</b>
Personnel Related	52	64	63	-	63
Communications	21	21	20	1	21
Supplies	51	47	44	1	45
Utilities	137	139	140	-	140
Computer Maintenance & Operations	7	15	15	(1)	14
Materials & Services	80	76	71	2	73
Buildings & Grounds Operations	1,513	1,338	1,301	45	1,346
Equipment Maintenance & Repairs	91	85	103	17	120
Vehicle Operations	23	71	70	-	70
Professional Services	19	15	15	7	22
Contracted Services	177	185	249	25	274
Leased Facilities Expenses	37	37	37	-	37
Financial Expenses	835	835	835	-	835
Property Taxes	1,300	1,286	1,334	-	1,334
Minor Assets & Equipment	-	-	-	28	28
Major Repairs & Renovations	121	121	100	709	809
<b>Operating Expenses Subtotal</b>	<b>6,074</b>	<b>6,041</b>	<b>6,139</b>	<b>865</b>	<b>7,004</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-General Tax Charge	20	20	20	(1)	19
Works-Facilities Management Charge	486	542	578	14	592
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>506</b>	<b>562</b>	<b>598</b>	<b>13</b>	<b>611</b>
<b>Gross Operating Expenses</b>	<b>6,580</b>	<b>6,603</b>	<b>6,737</b>	<b>878</b>	<b>7,615</b>



**PROGRAM 12  
FACILITIES MANAGEMENT**



**2020 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Tangible Capital Assets</b>					
New	82	82	-	947	947
Replacement	1,616	1,616	864	875	1,739
Contribution from Reserve / Reserve Fund	-	-	-	(702)	(702)
<b>Total Tangible Capital Assets</b>	<b>1,698</b>	<b>1,698</b>	<b>864</b>	<b>1,120</b>	<b>1,984</b>
<b>Total Expenses</b>	<b>8,278</b>	<b>8,301</b>	<b>7,601</b>	<b>1,998</b>	<b>9,599</b>
<b>Revenues</b>					
Rents	(11)	(11)	(11)	-	(11)
Revenue from Municipalities	(18)	(18)	(18)	-	(18)
<b>Total Revenues</b>	<b>(29)</b>	<b>(29)</b>	<b>(29)</b>	<b>-</b>	<b>(29)</b>
<b>Net Program Expenses</b>	<b>8,249</b>	<b>8,272</b>	<b>7,572</b>	<b>1,998</b>	<b>9,570</b>

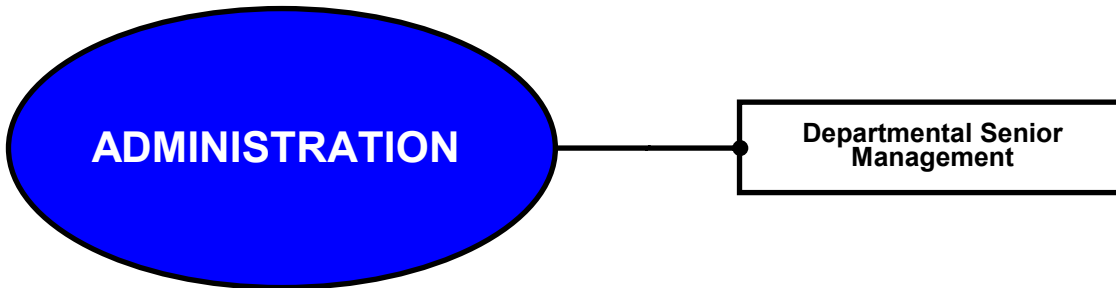
\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	9,570
Less: Tangible Capital Assets	(1,984)
Add: Revenue from York	18
Net Operating Program Expenses Per Program Summary	<u>7,604</u>



**2020 Program Detail**

**Works - Water Supply  
System**



**Purpose:**

- ◆ Provide overall direction and strategic planning for the Works Department with respect to Planning, Design, Construction, Operation and Maintenance of the Region's Water Supply System
- ◆ To ensure that all legislated requirements are adhered to and all operations remain in compliance with regulatory bodies

**Description of Program Activities:**

- ◆ Advise the Works Committee, Senior Management and Regional Council on all Works Department related matters
- ◆ Manage the operations of the Works Department through its divisions: Construction Management Services, Compliance, Development Approvals, Engineering Planning and Studies, Environmental Services Design, Facilities Management, Financial Services, Maintenance Operations, Plants Operations, Transportation Design, Transportation Infrastructure, Traffic Engineering and Operations, Corporate Real Estate and Solid Waste Management
- ◆ Represent the Region's interests with other groups, including Provincial Ministries, other Regions and interest groups
- ◆ Provide administrative support to the general operations and special activities of the Works Department
- ◆ Coordination of Works Committee reports for presentation to Regional Council related to the Water Supply System

**Description of Program Resources:**

- ◆ 2020 Full Time Employees            1.600
- ◆ 2019 Full Time Employees           1.600



**2020 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>  (\$,000's)	<b>2019</b>		<b>2020</b>		
	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	272	308	312	1	313
Personnel Related	7	7	6	-	6
<b>Net Program Expenses</b>	<b>279</b>	<b>315</b>	<b>318</b>	<b>1</b>	<b>319</b>

**PROGRAM 14  
HEADQUARTERS SHARED COST**



**2020 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Restated Budget	Base Budget	Program Change	Approved Budget
<b>Operating Expenses</b>					
Personnel Expenses	1,207	1,216	1,196	60	1,256
Communications	630	650	650	-	650
Supplies	112	112	112	-	112
Utilities	1,098	1,098	1,149	-	1,149
Materials & Services	59	27	27	32	59
Buildings & Grounds Operations	1,177	1,235	1,164	(7)	1,157
Equipment Maintenance & Repairs	14	12	12	7	19
Professional Services	24	20	20	4	24
Contracted Services	809	802	811	76	887
Financial Expenses	182	182	182	-	182
Major Repairs & Renovations	145	209	-	95	95
Contribution to Reserves / Reserve Funds	637	637	-	-	-
Call Centre Operations	592	687	604	255	859
Front Counter Operations	373	374	388	10	398
<b>Operating Expenses Subtotal</b>	<b>7,059</b>	<b>7,261</b>	<b>6,315</b>	<b>532</b>	<b>6,847</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Facilities Management & Shipping/Receiving Charge	412	421	396	-	396
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>412</b>	<b>421</b>	<b>396</b>	<b>-</b>	<b>396</b>
<b>Gross Operating Expenses</b>	<b>7,471</b>	<b>7,682</b>	<b>6,711</b>	<b>532</b>	<b>7,243</b>
<b>Tangible Capital Assets</b>					
New	60	60	-	345	345
Replacement	676	676	36	8,439	8,475
Federal Grant	-	-	-	(20)	(20)
Contribution From Reserves / Reserve Funds	(113)	(113)	-	(7,418)	(7,418)
<b>Total Tangible Capital Assets</b>	<b>623</b>	<b>623</b>	<b>36</b>	<b>1,346</b>	<b>1,382</b>

**PROGRAM 14  
HEADQUARTERS SHARED COST**



**2020 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Restated Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Debt Charges</b>					
Debt Charges	4,594	4,594	4,594	-	4,594
<b>Total Debt Charges</b>	<b>4,594</b>	<b>4,594</b>	<b>4,594</b>	<b>-</b>	<b>4,594</b>
<b>Revenues</b>					
Rents	(25)	(25)	(25)	-	(25)
Sundry Revenue	(4)	(4)	(4)	-	(4)
<b>Total Revenues</b>	<b>(29)</b>	<b>(29)</b>	<b>(29)</b>	<b>-</b>	<b>(29)</b>
<b>Net Program Expenses</b>	<b>12,659</b>	<b>12,870</b>	<b>11,312</b>	<b>1,878</b>	<b>13,190</b>
<b>Department's Share of Net Program Expenses</b>	<b>1,073</b>	<b>1,073</b>	<b>943</b>	<b>157</b>	<b>1,100</b>

**PROGRAM 15**  
**TANGIBLE CAPITAL ASSETS PROGRAM SUMMARY**



**2020 Business Plan**

**Works - Water Supply System**

By Program	2019		2020		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Tangible Capital Assets:</b>					
1W Facilities Management - New	82	82	-	947	947
2W - Replacement	1,616	1,616	864	875	1,739
3W Fleet/Equipment - New	687	687	-	661	661
4W - Replacement	966	966	850	490	1,340
5W Construction of Municipal Services	39,047	39,047	39,047	797	39,844
<b>Tangible Capital Assets Subtotal</b>	<b>42,398</b>	<b>42,398</b>	<b>40,761</b>	<b>3,770</b>	<b>44,531</b>
<b>Tangible Capital Assets Revenue &amp; Recoveries:</b>					
6W Facilities Management - Recovery from Reserve / Reserve Fund	-	-	-	(702)	(702)
<b>Tangible Capital Assets Revenue &amp; Recoveries Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(702)</b>	<b>(702)</b>
<b>Net Tangible Capital Assets Program Expenses</b>	<b>42,398</b>	<b>42,398</b>	<b>40,761</b>	<b>3,068</b>	<b>43,829</b>
<b>Summary of Increase (Decrease)</b>			<b>(\$1,637)</b>		<b>\$1,431</b>
			<b>-3.86%</b>		<b>3.38%</b>

**TANGIBLE CAPITAL ASSETS - NEW**



**2020 Program Detail**

**Works - Water Supply Systems**

Program Detail Page	Location	Item Description	Item #	Qty	Unit Cost	Gross Total Cost	Water Total	Other Financing	Net Water
05. Depot Operations	Admin/Depot - All	Office Furniture/Equipment/Technology	207	1	\$ 20,000	\$20,000	\$10,000	\$0	<b>\$10,000</b>
	Ajax Depot	1 Ton Van	1	1	\$ 125,000	\$125,000	\$125,000	\$0	<b>\$125,000</b>
		Heavy Duty Excavator	193	1	\$ 411,000	\$411,000	\$137,000	\$0	<b>\$137,000</b>
	Oshawa/Whitby Depot	3000lb ROC Skid Steer with Asphalt Planer and Trailer	4	1	\$ 125,000	\$125,000	\$41,667	\$0	<b>\$41,667</b>
	Scugog Depot	Tandem Combination Dump Truck/Snow Plow	348	1	\$ 390,000	\$390,000	\$130,000	\$0	<b>\$130,000</b>
	Sunderland Depot	Tandem Combination Dump Truck/Snow Plow	349	1	\$ 390,000	\$390,000	\$130,000	\$0	<b>\$130,000</b>
06. Plants East	Plants East	Mobile Tablets	286	3	\$ 1,200	\$3,600	\$3,600	\$0	<b>\$3,600</b>
07. Plants Central	Plants Central	Mobile Tablets - Operations/Maintenance	351	32	\$ 1,200	\$38,400	\$38,400	\$0	<b>\$38,400</b>
08. Plants North	Plants North	Mobile Tablets	37	2	\$ 1,200	\$2,400	\$2,400	\$0	<b>\$2,400</b>
11. Engineering and Staff Support	Construction	1/2 Ton Pick-up Truck	3	1	\$ 50,000	\$50,000	\$16,666	\$0	<b>\$16,666</b>
		Laptop Computer	209	1	\$ 2,006	\$2,006	\$668	\$0	<b>\$668</b>
			208	1	\$ 2,006	\$2,006	\$669	\$0	<b>\$669</b>
			Office Furniture - Project Manager	233	1	\$ 2,000	\$2,000	\$667	\$0
	Environmental Services Design	Laptop	389	1	\$ 4,770	\$4,770	\$2,385	\$0	<b>\$2,385</b>
			388	1	\$ 4,770	\$4,770	\$2,385	\$0	<b>\$2,385</b>
Telelogger Recorders		391	4	\$ 2,500	\$10,000	\$5,000	\$0	<b>\$5,000</b>	
12. Facilities Management	Beaverton WSP	VOIP	244	1	\$ 45,000	\$45,000	\$45,000	\$0	<b>\$45,000</b>
	Facilities - Design, Construction & Asset Management	Power Laptop	395	1	\$ 4,770	\$4,770	\$1,590	\$0	<b>\$1,590</b>
		Standard Laptop	382	1	\$ 2,006	\$2,006	\$669	\$0	<b>\$669</b>
			381	1	\$ 2,006	\$2,006	\$669	\$0	<b>\$669</b>
	Facilities - Maintenance & Operations	Compact Truck/SUV	53	1	\$ 47,000	\$47,000	\$15,667	\$0	<b>\$15,667</b>
		Standard Laptop	52	1	\$ 2,006	\$2,006	\$669	\$0	<b>\$669</b>
	Orono Depot	Install new access gate	195	1	\$ 100,000	\$100,000	\$33,333	\$0	<b>\$33,333</b>
	Oshawa WSP	Chemical room ventilation	248	1	\$ 150,000	\$150,000	\$150,000	\$0	<b>\$150,000</b>
		VOIP	246	1	\$ 150,000	\$150,000	\$150,000	\$0	<b>\$150,000</b>
	Oshawa/Whitby Depot	Emergency Standby Generator	198	1	\$ 456,000	\$456,000	\$152,000	\$0	<b>\$152,000</b>
		Installation of additional security cameras and upgrades to exterior lighting	201	1	\$ 250,000	\$250,000	\$83,333	\$0	<b>\$83,333</b>

**TANGIBLE CAPITAL ASSETS - NEW**



**2020 Program Detail**

**Works - Water Supply Systems**

Program Detail Page	Location	Item Description	Item #	Qty	Unit Cost	Gross Total Cost	Water Total	Other Financing	Net Water
12. Facilities Management	Plants North - Cannington Wells 2 & 7	Pave Driveway	255	1	\$ 110,000	\$110,000	\$110,000	\$0	<b>\$110,000</b>
	Scugog Depot	Wide Area Network Connection Construction	20	1	\$ 101,500	\$101,500	\$33,833	\$0	<b>\$33,833</b>
	Seaton	Seaton Facility Site Master Plan - Additional Funds	379	1	\$ 55,000	\$55,000	\$18,333	\$0	<b>\$18,333</b>
	Sunderland Depot	Install Perimeter Fencing	196	1	\$ 160,000	\$160,000	\$53,333	\$0	<b>\$53,333</b>
	Sunderland Depot - Expansion	Generator	60	1	\$ 295,000	\$295,000	\$98,333	\$0	<b>\$98,333</b>
10. SCADA Systems	Oshawa WSP	Mobile Tablets	387	12	\$ 1,200	\$14,400	\$14,400	\$0	<b>\$14,400</b>
<b>Grand Total</b>						<b>\$3,525,640</b>	<b>\$1,607,668</b>	<b>\$0</b>	<b>\$1,607,668</b>

**Tangible Capital Asset Program Summary**

1W Facilities Management - New	946,761
3W Fleet/Equipment - New	660,907
	<u><u>1,607,668</u></u>





## TANGIBLE CAPITAL ASSETS - REPLACEMENT

### 2020 Program Detail

### Works - Water Supply Systems

Program Detail Page	Location	Item Description	Item #	Qty	Unit Cost	Gross Total Cost	Water Total	Other Financing	Net Water
05. Depot Operations	Orono Depot	Laptop Computer for Road Patrol	210	1	\$ 1,700	\$1,700	\$567	\$0	\$567
	Oshawa/Whitby Depot	Forklift	188	1	\$ 60,000	\$60,000	\$20,000	\$0	\$20,000
06. Plants East	Plants East	Chlorine Analyzers	44	3	\$ 10,000	\$30,000	\$30,000	\$0	\$30,000
		Lab/Process Equipment	205	1	\$ 12,000	\$12,000	\$12,000	\$0	\$12,000
		Pump / Motor / Mixer Repair / Replacement	281	1	\$ 50,000	\$50,000	\$50,000	\$0	\$50,000
		SCADA Services - Maintenance	330	1	\$ 100,000	\$100,000	\$100,000	\$0	\$100,000
	Plants East - Blackstock	Pump Replacement - Vertical Turbine	287	1	\$ 100,000	\$100,000	\$100,000	\$0	\$100,000
07. Plants Central	Ajax WSP	Office Chairs	227	18	\$ 500	\$9,000	\$9,000	\$0	\$9,000
		Uninterrupted Power Supply Replacement	352	1	\$ 40,000	\$40,000	\$40,000	\$0	\$40,000
		WATER SCADA Replacements Radios 18G, Routers, Support Wan	359	1	\$ 175,100	\$175,100	\$175,100	\$0	\$175,100
	Plants Central	Chlorine Analyzers	43	3	\$ 10,000	\$30,000	\$30,000	\$0	\$30,000
		SCADA Workstation	331	1	\$ 10,000	\$10,000	\$10,000	\$0	\$10,000
08. Plants North	Beaverton WSP	Variable Frequency Drive for Low Lift	355	1	\$ 40,000	\$40,000	\$40,000	\$0	\$40,000
	Plants North	Chlorine Analyzers	45	2	\$ 10,000	\$20,000	\$20,000	\$0	\$20,000
		eRis sampling process development	42	1	\$ 125,000	\$125,000	\$125,000	\$0	\$125,000
		Replacement of Existing Chlorinators	34	3	\$ 20,000	\$60,000	\$60,000	\$0	\$60,000
		Replacement of Existing Compressors	38	2	\$ 30,000	\$60,000	\$60,000	\$0	\$60,000
		Replacement of the Ajax WSP Hypo System Including Pumps and Controls	36	1	\$ 150,000	\$150,000	\$150,000	\$0	\$150,000
		Replacement of Turbidity Analyzers at Ajax Water Supply Plant and Whitby Water Supply Plant	35	6	\$ 10,000	\$60,000	\$60,000	\$0	\$60,000
		SCADA - Upgrade Integrated Management System	40	1	\$ 80,000	\$80,000	\$80,000	\$0	\$80,000
11. Engineering and Staff Support	Construction	Survey GPS Instrument	347	1	\$ 50,000	\$50,000	\$16,667	\$0	\$16,667
	Data System Management	Chair and Ergonomic Upgrades	31	1	\$ 1,000	\$1,000	\$500	\$0	\$500
	Financial Services	Computers & Monitors Refresh	55	1	\$ 685,214	\$685,214	\$150,241	\$0	\$150,241
	Technical Support	Office Chairs	228	2	\$ 500	\$1,000	\$500	\$0	\$500
			225	2	\$ 750	\$1,500	\$750	\$0	\$750
12. Facilities Management	Ajax WSP	MCC Cooling Project - Additional Funding	250	1	\$ 120,000	\$120,000	\$120,000	\$0	\$120,000
	Beaverton WSP	Dehumidifier Replacement - Additional Funding	251	1	\$ 120,000	\$120,000	\$120,000	\$0	\$120,000

## TANGIBLE CAPITAL ASSETS - REPLACEMENT



### 2020 Program Detail

### Works - Water Supply Systems

Program Detail Page	Location	Item Description	Item #	Qty	Unit Cost	Gross Total Cost	Water Total	Other Financing	Net Water
12. Facilities Management	Orono Depot	Replace Ford Smith 32,000 lb. Hoist	313	1	\$ 520,000	\$520,000	\$173,333	\$0	<b>\$173,333</b>
		Replacement of veeder root & Fuel System hardware and Software	394	1	\$ 125,000	\$125,000	\$41,667	\$0	<b>\$41,667</b>
	Oshawa/Whitby Depot	Furnace Replacement - Additional Funding	197	1	\$ 147,000	\$147,000	\$49,000	\$0	<b>\$49,000</b>
		Replacement of Floor Grates including Floor Drains	314	1	\$ 180,000	\$180,000	\$60,000	\$0	<b>\$60,000</b>
	Plants Central - Rosebank Rd. Reservoir	Floor Repairs	74	1	\$ 180,000	\$180,000	\$180,000	\$0	<b>\$180,000</b>
	Plants North - Uxville Well	Replacement and Relocation of Septic Holding Tank	253	1	\$ 185,000	\$185,000	\$185,000	\$0	<b>\$185,000</b>
	Regional Headquarters	Space Optimization & Master Accommodation Planning - Construction	401	1	\$ 985,634	\$985,634	\$492,817	(\$492,817)	<b>\$0</b>
		Space Optimization & Master Accommodation Planning - Consulting	399	1	\$ 418,454	\$418,454	\$209,227	(\$209,227)	<b>\$0</b>
	Scugog Depot	Construction of Mezzanine in Fleet Area	56	1	\$ 160,000	\$160,000	\$53,333	\$0	<b>\$53,333</b>
		Structural Repairs to Mezzanine - Additional Funds	57	1	\$ 80,000	\$80,000	\$26,667	\$0	<b>\$26,667</b>
	Sunderland Depot	VOIP - Additional Funding	223	1	\$ 85,000	\$85,000	\$28,333	\$0	<b>\$28,333</b>
<b>Grand Total</b>						<b>\$5,257,602</b>	<b>\$3,079,702</b>	<b>(\$702,044)</b>	<b>\$2,377,658</b>

**Tangible Capital Asset Program Summary**

2W Facilities Management - Replacement	1,739,377
4W Fleet/Equipment - Replacement	1,340,325
	<b>3,079,702</b>

**PROGRAM 5W  
TCA - CONSTRUCTION**



**2020 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program:	2019		2020		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Tangible Capital Assets</b>					
Capital Fund Contribution	39,047	39,047	39,047	797	39,844
<b>Total Tangible Capital Assets</b>	<b>39,047</b>	<b>39,047</b>	<b>39,047</b>	<b>797</b>	<b>39,844</b>

## 2020 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution								
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I		
					Benefit to Existing C	Total User Revenue D							
<b>A LINEAR INFRASTRUCTURE</b>													
<b>Regional Road Program</b>													
* 5 R.R. 26 (Thickson Rd.) from Wentworth St. to CNR bridge, Whitby		C	190,000	0	190,000	190,000	0	0	0	0	0	0	0
* 7 R.R. 28 (Rosland Rd.) from Ritson Rd. to Harmony Rd., Oshawa		D	200,000	0	200,000	200,000	0	0	0	0	0	0	0
* 8 R.R. 29 (Liverpool Rd.) from Kingston Rd. to Highway 401, Pickering		D	60,000	0	60,000	60,000	0	0	0	0	0	0	0
* 9 R.R. 31 (Westney Rd.) from Finley Ave. to Harwood Ave., Ajax		D	200,000	0	200,000	200,000	0	0	0	0	0	0	0
* 14 R.R. 53 (Stevenson Rd.) from Highway 401 to Bond St., Oshawa		D	150,000	0	150,000	150,000	0	0	0	0	0	0	0
* 15 R.R. 53 (Stevenson Rd.) from Bond St. to Rosland Rd., Oshawa		D	150,000	0	150,000	150,000	0	0	0	0	0	0	0
* 17 R.R. 57 (Bowmanville Ave.) from Baseline Rd. to Nash Rd., Bowmanville		D,C	385,000	0	385,000	385,000	0	0	0	0	0	0	0
* 20 R.R. 59 (Gibb St./Olive Ave. extension from Drew St. to Ritson Rd., Oshawa		D	100,000	0	100,000	100,000	0	0	0	0	0	0	0
* 21 R.R. 60 (Wentworth St.) from Cedar St. to Farewell St., Oshawa		D,C	1,400,000	0	1,400,000	1,400,000	0	0	0	0	0	0	0
Sub-total			2,835,000	0	2,835,000	2,835,000	0	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>													
23A City of Pickering Road Program		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0	0
23B Town of Ajax Road Program		D,C	700,000	0	700,000	700,000	0	0	0	0	0	0	0
23C Town of Whitby Road Program		D,C	60,000	0	60,000	60,000	0	0	0	0	0	0	0
23D City of Oshawa Road Program		D,C	0	0	0	0	0	0	0	0	0	0	0
23E Municipality of Clarington Road Program		D,C	50,000	0	50,000	50,000	0	0	0	0	0	0	0
23F Township of Scugog Road Program		D,C	260,000	0	260,000	260,000	0	0	0	0	0	0	0
23G Township of Uxbridge Road Program		D,C	0	0	0	0	0	0	0	0	0	0	0
23H Township of Brock Road Program		D,C	0	0	0	0	0	0	0	0	0	0	0
23i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	300,000	0	300,000	300,000	0	0	0	0	0	0	0
Sub-total			1,470,000	0	1,470,000	1,470,000	0	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>													
25 Watermain replacement at Simcoe St. /Albert St. & Hwy 401, Oshawa		C	2,300,000	0	2,300,000	2,300,000	0	0	0	0	0	0	0
Sub-total			2,300,000	0	2,300,000	2,300,000	0	0	0	0	0	0	0
<b>Betterments/Replacement</b>													
Water works to rectify identified system deficiencies independent of road programs in various locations		D,C	800,000	0	800,000	800,000	0	0	0	0	0	0	0
27 Rehabilitation of existing watermain in various locations		D,C	2,800,000	0	2,800,000	2,800,000	0	0	0	0	0	0	0
* 28 Replacement of wm on Kingston Rd. from Delta Blvd. to Merritt Dr., Pickering		C	710,000	0	710,000	710,000	0	0	0	0	0	0	0
* 29 Replacement of wm on Zator Ave. from Bem Ave. to Krosno Blvd., Pickering		D,C	977,000	0	0	0	0	0	0	0	0	977,000	0
* 30 Replacement of wm on Miriam Rd. from Zator Ave. S/L to N/L, Pickering		D,C	530,000	0	0	0	0	0	0	0	0	0	530,000
* 35 Replacement of wm on Krosno Blvd. from Liverpool Rd. to Fanshew Pl., Pickering		D	100,000	0	0	0	0	0	0	0	0	0	100,000
* 36 Replacement of wm on Pickering Beach Rd. from Foord Rd. to Hewitt Cres., Ajax		C	470,000	0	470,000	470,000	0	0	0	0	0	0	0
* 37 Watermain Extension on Achilles Rd. from Salem Rd. to 100 m W., Ajax		C	160,000	0	160,000	160,000	0	0	0	0	0	0	0
* 38 Replacement of wm on Cameron St. from Elizabeth St. to Windsor Dr., Ajax		C	50,000	0	0	0	0	0	0	0	0	0	50,000
* 39 Replacement of wm on Windsor Dr. from Old Kingston Rd. to Cameron St., Ajax		C	60,000	0	0	0	0	0	0	0	0	0	60,000
* 40 Replacement of wm on Linton Ave. from Kearney Dr. S. to Old Kingston Rd., Ajax		D,C	425,000	0	0	0	0	0	0	0	0	0	425,000
* 41 Replacement of wm on Sherwood Rd. W. from Windsor Dr. to dead-end, Ajax		C	670,000	0	0	0	0	0	0	0	0	0	670,000
52 Replacement of wm on Bloor St. from Wilson Rd. to Holland St., Oshawa		D,C	400,000	0	0	0	0	0	0	0	0	0	400,000
53 Replacement of wm on Holland St. from Veterans Rd. to Bloor St., Oshawa		D,C	260,000	0	0	0	0	0	0	0	0	0	260,000
* 58 Replacement of wm on Highland Ave. from Gliddon Ave. to Athol St., Oshawa		C	90,000	0	0	0	0	0	0	0	0	0	90,000
* 59 Replacement of wm on Harmony Rd. N. from Adelaide Ave. to 200 m north, Oshawa		C	110,000	0	110,000	110,000	0	0	0	0	0	0	0
* 63 Replacement of wm on Olive Ave. from Simcoe St. S. to Drew St., Oshawa		C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0	0
* 65 Replacement of wm on Grassmere Ave. from W/L to Ritson Rd. S, Oshawa		C	130,000	0	130,000	130,000	0	0	0	0	0	0	0
* 66 Replacement of wm on Marland Ave. from Grenfell St. to Park Rd., Oshawa		C	130,000	0	130,000	130,000	0	0	0	0	0	0	0
67 Replacement of wm on Montrave Ave. from Marland Ave. to Gibb St., Oshawa		D,C	365,000	0	365,000	365,000	0	0	0	0	0	0	0
* 68 Replacement of wm on Ritson Rd. from Kawartha Ave. to Grassmere Cr., Oshawa		D	150,000	0	0	0	0	0	0	0	0	0	150,000
* 75 Replacement of wm on North St. from Wilmot St. to Concession Rd. 3, Newcastle		D	300,000	0	0	0	6,600	262,800	300	30,300	0	0	0
* 79 Replacement of wm on Bigelow St. from Kellet St. to 100 m North, Port Perry		C	100,000	0	0	0	0	0	0	0	0	0	100,000

## 2020 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
* 80 Replacement of wm on Kellett St./Beech St. from Bigelow St. to E. Kent St., Port Perry		D,C	545,000	0	0	0	0	0	0	0	0	545,000
* 95 Replacement of wm on Simcoe St. from CNR to John St., Beaverton		D	100,000	0	0	0	0	0	0	0	0	100,000
* 96 Replacement of wm on Simcoe St. from Beaverton WSP to CNR, Beaverton		D	100,000	0	0	0	0	0	0	0	0	100,000
101 Unserviced area: watermain on Range Rd., Lakeridge Rd. and Ontoro Blvd., Ajax		D,C	1,780,000	1,428,000	352,000	352,000	0	0	0	0	0	0
102 Unserviced area: watermain on Fielding Cr. from Westney Rd. to E/L, Ajax		D,C	600,000	436,000	164,000	164,000	0	0	0	0	0	0
Sub-total			14,012,000	1,864,000	7,291,000	7,291,000	6,600	262,800	300	30,300	4,557,000	
<b>System Expansion</b>												
* 110 Zone 1 FM on Bloor St. from Ritson Rd. to Wilson Rd., Oshawa Phase 3	219	C	1,500,000	0	0	0	33,000	1,314,000	1,500	151,500	0	0
* 111 Zone 3 FM on Conlin Rd. from Anderson St. to Garrard Rd., Whitby	225	C	4,150,000	0	0	0	91,300	3,635,400	4,150	419,150	0	0
* 118 WM on Britannia Ave. from Thornton Rd. to Windfields Farm Dr., Oshawa	241	D	260,000	0	0	0	5,720	227,760	260	26,260	0	0
* 123 Zone 4 FM from PS to Zone 4 Reservoir, Oshawa	235	D	1,200,000	0	0	0	26,400	1,051,200	1,200	121,200	0	0
* 128 Zone 1 FM on easement from Townline Rd. to Prestonvale Rd., Courtice	222	D	500,000	0	0	0	11,000	438,000	500	50,500	0	0
* 137 WM on Grady Dr. from Whitehand Cres. to North St., Newcastle		D	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			7,710,000	0	100,000	100,000	167,420	6,666,360	7,610	768,610	0	0
<b>Other Linear Infrastructure</b>												
138 Water Meter installation and replacement		C	3,100,000	0	3,100,000	3,100,000	0	0	0	0	0	0
139 Depots - Replacement of Poly service connections		C	100,000	0	100,000	100,000	0	0	0	0	0	0
140 Depots - Replacement of Lead service connections		D,C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0	0
141 Replacement of valves		C	360,000	0	360,000	360,000	0	0	0	0	0	0
142 Replacement of hydrants		C	200,000	0	200,000	200,000	0	0	0	0	0	0
143 Smart City Initiative - water distribution system pilot		D	500,000	0	500,000	500,000	0	0	0	0	0	0
Sub-total			5,260,000	0	5,260,000	5,260,000	0	0	0	0	0	0
<b>B BUILDINGS</b>												
* 144 Seaton Zone 4 Reservoir & Zone 5 Water Pumping Station, Pickering		C	6,700,000	6,700,000	0	0	0	0	0	0	0	0
* 145 Ajax WSP expansion from 163.6 to 327 MLD, Ajax	100	EA	1,500,000	840,000	495,000	495,000	10,530	105,150	660	48,660	0	0
* 146 Ajax WSP expansion joint rehabilitation work, Ajax		C	2,100,000	0	2,100,000	2,100,000	0	0	0	0	0	0
* 147 Proposed Ajax Zone 1 Water Storage Facility, 11 ML, Ajax	101	EA	600,000	0	0	0	13,200	525,600	600	60,600	0	0
* 148 Whitby WSP expansion from 109 to 218 MLD, Whitby	200	D,C	2,500,000	0	145,000	145,000	150,500	1,500,000	9,500	695,000	0	0
* 152 Thickson Rd. Zone 3 Pumping Station expansion, Whitby	210	D	1,600,000	0	209,600	209,600	30,560	1,217,600	1,440	140,800	0	0
* 154 Proposed Whitby Zone 4 Water Storage Facility, Whitby	205	EA/D	1,700,000	0	204,000	204,000	32,810	1,310,700	1,530	150,960	0	0
* 156 Oshawa Water Supply Plant - break wall modifications		D	100,000	0	100,000	100,000	0	0	0	0	0	0
* 160 Taunton Rd. Zone 4 PS - additional pumps, Whitby		C	750,000	0	0	0	16,500	657,000	750	75,750	0	0
* 162 Proposed Zone 4 Pumping Station at Harmony Rd. Res., Oshawa	208	D	250,000	0	33,250	33,250	4,775	189,750	225	22,000	0	0
* 163 Proposed Oshawa Zone 4 Water Storage Facility, Oshawa	206	EA/D	3,200,000	0	544,000	544,000	58,336	2,326,400	2,624	268,640	0	0
* 164 Proposed Zone 5 Pumping Station and feedermain, Oshawa	214	EA/D	1,000,000	0	0	0	22,000	876,000	1,000	101,000	0	0
* 165 Hortop Water Pumping Station Replacement, Oshawa	26	D	100,000	0	100,000	100,000	0	0	0	0	0	0
* 166 Bowmanville Water Supply Plant Expansion from 36 to 55 MLD, Clarington	300	EA	500,000	0	37,500	37,500	29,550	294,500	1,850	136,600	0	0
* 171 Proposed Zone 1 Reservoir, Newcastle Clarington	312	D	3,000,000	0	162,000	162,000	62,100	2,487,000	2,700	286,200	0	0
* 180 Sunderland New well and pumphouse w/standby power, Brock	602	EA,D	1,000,000	0	805,000	805,000	12,500	124,000	800	57,700	0	0
* 183 Cannington New Well and pumphouse, Brock	600	C	5,000,000	0	4,925,000	4,925,000	4,500	50,000	500	20,000	0	0
* 188 Water Storage Facilities condition assessments and rehabilitation works		D,C	465,000	0	0	0	0	0	0	0	0	465,000
* 189 Wellhead protection at Regional well sites	800	D,C	800,000	0	800,000	800,000	0	0	0	0	0	0
Sub-total			32,865,000	7,540,000	10,660,350	10,660,350	447,861	11,663,700	24,179	2,063,910	465,000	

## 2020 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund
					Benefit to Existing	Total User Revenue					
A	B	C	D	E	F	G	H	I			
<b>C MACHINERY AND EQUIPMENT</b>											
* 191 Regional Environmental Laboratory upgrades and ventilation works, Pickering		C	450,000	225,000	0	0	6,075	197,550	900	20,475	0
* 194 Cherrywood Water Pumping Station upgrades and feedermain, Pickering		D	300,000	0	300,000	300,000	0	0	0	0	0
196 Ajax Water Supply Plant chlorine intake line replacement, Ajax		D,C	460,000	0	460,000	460,000	0	0	0	0	0
197 Whitby Water Supply Plant chlorine intake line replacement, Whitby		D,C	460,000	0	460,000	460,000	0	0	0	0	0
* 204 Taunton Rd. Water Pumping Station and Res. upgrades and replacements, Oshawa		D	100,000	0	100,000	100,000	0	0	0	0	0
* 205 Bowmanville Water Supply Plant - disinfection upgrades, Clarington		C	700,000	0	700,000	700,000	0	0	0	0	0
* 213 Blackstock Water Supply System - Municipal Well No. 7 upgrades, Scugog		C	700,000	0	700,000	700,000	0	0	0	0	0
* 216 Automatic Bulk Water Dispensing System		D,C	3,200,000	0	3,200,000	3,200,000	0	0	0	0	0
Sub-total			6,370,000	225,000	5,920,000	5,920,000	6,075	197,550	900	20,475	0
<b>D IT INFRASTRUCTURE</b>											
Sub-total			0	0	0	0	0	0	0	0	0
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
* 221 Asset Condition Assessments-Report		D	112,000	0	0	0	0	0	0	0	112,000
* 222 Asset Condition Assessment/Investigation transmission pipe		D	100,000	0	0	0	0	0	0	0	100,000
224 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0
225 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0
* 226 Allowance for CTC Source Water Protection Plan		D	300,000	0	300,000	300,000	0	0	0	0	0
227 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0
228 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0
229 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
230 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
231 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460,000	0	0	0	39,420	1,281,880	5,840	132,860	0
232 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400,000	0	0	0	10,800	351,200	1,600	36,400	0
233 Well interference works		D,C	400,000	0	0	0	0	400,000	0	0	0
Sub-total			3,387,000	0	915,000	915,000	50,220	2,033,080	7,440	169,260	212,000
<b>Total Cost Attribution</b>			<b>76,209,000</b>	<b>9,629,000</b>	<b>36,751,350</b>	<b>36,751,350</b>	<b>678,176</b>	<b>20,823,490</b>	<b>40,429</b>	<b>3,052,555</b>	<b>5,234,000</b>
<b>DC Revenue Shortfall to be financed from User Revenue</b>											
Institutional Charges and Industrial Charges											
Subtotal:											
						3,092,984	0	0	(40,429)	(3,052,555)	0
<b>Other Financing - Petition Recoverable</b>											
Unserviced area: watermain on Range Rd, Lakeridge Rd and Ontoro Blvd, Ajax Item No. 101											
				1,428,000	0	0	0	0	0	0	0
Unserviced area: watermain on Fielding Cr., Ajax Item No. 102											
				436,000	0	0	0	0	0	0	0
Subtotal:											
				1,864,000	0	0	0	0	0	0	0
<b>Other Financing - Seaton Landowners</b>											
Seaton Zone 4 Reservoir & Zone 5 Pumping Station Item 142											
				6,700,000	0	0	0	0	0	0	0
Ajax WSP expansion from 163.6 to 327 MLD, Ajax Item 143											
				840,000	0	0	0	0	0	0	0
Subtotal:											
				7,540,000	0	0	0	0	0	0	0
<b>Other Financing - Regional Municipality of York:</b>											
Regional Environmental Laboratory Upgrades Item No. 186											
				225,000	0	0	0	0	0	0	0
Subtotal:											
				225,000	0	0	0	0	0	0	0
				<b>9,629,000</b>		<b>39,844,334</b>	<b>678,176</b>	<b>20,823,490</b>	<b>0</b>	<b>0</b>	<b>5,234,000</b>

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2021 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund	
					Benefit to Existing	Total User Revenue						E
A	B	C	D	E	F	G	H	I				
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
* 2 R.R. 14 (Liberty St.) from Longworth Ave. to Concession Rd. 3, Bowmanville		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
* 16 R.R. 56 (Farewell St.) from Harbour Rd. to Bloor St., Oshawa		C	460,000	0	460,000	460,000	0	0	0	0	0	0
* 17 R.R. 57 (Bowmanville Ave.) from Baseline Rd. to Nash Rd., Bowmanville		C	170,000	0	170,000	170,000	0	0	0	0	0	0
* 19 R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa		C	1,750,000	0	1,750,000	1,750,000	0	0	0	0	0	0
Sub-total			2,480,000	0	2,480,000	2,480,000	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
23A City of Pickering Road Program		D,C	275,000	0	275,000	275,000	0	0	0	0	0	0
23B Town of Ajax Road Program		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
23C Town of Whitby Road Program		D,C	620,000	0	620,000	620,000	0	0	0	0	0	0
23D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
23E Municipality of Clarington Road Program		D,C	370,000	0	370,000	370,000	0	0	0	0	0	0
23F Township of Scugog Road Program		D,C	130,000	0	130,000	130,000	0	0	0	0	0	0
23G Township of Uxbridge Road Program		D,C	270,000	0	270,000	270,000	0	0	0	0	0	0
23H Township of Brock Road Program		D,C	250,000	0	250,000	250,000	0	0	0	0	0	0
23i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			3,415,000	0	3,415,000	3,415,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
* 24 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0
<b>Betterments/Replacement</b>												
Water works to rectify identified system deficiencies independent of road programs in various locations		D,C	800,000	0	800,000	800,000	0	0	0	0	0	0
27 Rehabilitation of existing water mains in various locations		D,C	3,000,000	0	3,000,000	3,000,000	0	0	0	0	0	0
* 35 Replacement of wm on Krosno Blvd. from Liverpool Rd. to Fanshaw Pl., Pickering		C	1,015,000	0	0	0	0	0	0	0	0	1,015,000
* 61 Replacement of wm on Farewell St. from CNR to Bloor St., Oshawa		C	150,000	0	0	0	0	0	0	0	0	150,000
62 Replacement of wm on Valencia Rd. from Oxford St. to dead-end, Oshawa		D,C	320,000	0	0	0	0	0	0	0	0	320,000
* 64 Replacement of fm on Ritson Rd. from Valve Chamber to Kawartha Ave., Oshawa		C	3,650,000	0	3,650,000	3,650,000	0	0	0	0	0	0
* 75 Replacement of wm on North St. from Wilmot St. to Concession Rd. 3, Newcastle		C	1,310,000	0	0	0	28,820	1,147,560	1,310	132,310	0	0
* 88 Replacement of wm on Simcoe St. from Union St. to 480 m South, Beaverton		C	680,000	0	0	0	0	0	0	0	0	680,000
* 90 Replacement of wm on Bay St. from Union St. to Osborne St., Beaverton		C	500,000	0	0	0	0	0	0	0	0	500,000
* 91 Replacement of wm on Bay St. from Osborne St. to Mill St., Beaverton		C	325,000	0	0	0	0	0	0	0	0	325,000
* 92 Replacement of wm on Church St. from Osborne St. to Mill St., Beaverton		C	450,000	0	0	0	0	0	0	0	0	450,000
* 93 Replacement of wm on Mill St. from Church St. to Bay St., Beaverton		C	310,000	0	0	0	0	0	0	0	0	310,000
* 94 Replacement of wm on Bay St. from Mill St. to Main St., Beaverton		C	500,000	0	0	0	0	0	0	0	0	500,000
97 Replacement of wm on James St. fr Main St. to Centre St./Highland Cr., Beaverton		D,C	310,000	0	0	0	0	0	0	0	0	310,000
98 Replacement of wm on King St. from Mara Rd. to dead-end, Beaverton		D,C	224,000	0	0	0	0	0	0	0	0	224,000
100 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			13,744,000	0	7,650,000	7,650,000	28,820	1,147,560	1,310	132,310	0	4,784,000
<b>System Expansion</b>												
* 105 Zone 2 FM on William Jackson Dr. & Taunton Rd., Pickering/Ajax	106	D	500,000	0	0	0	11,000	438,000	500	50,500	0	0
* 107 Zone 1 FM from Whitby Water Supply Plant to Thornton Rd., Whitby/Oshawa	216	D,C	12,500,000	0	0	0	275,000	10,950,000	12,500	1,262,500	0	0
* 112 Zone 3 FM on Anderson St. from Conlin Rd. to Clair Ave., Whitby	227	D	500,000	0	0	0	11,000	438,000	500	50,500	0	0
* 114 Zone 4 FM from Thicketon Rd. Water Pumping Station to Reservoir, Whitby	236	C	16,400,000	0	0	0	360,800	14,366,400	16,400	1,656,400	0	0
* 115 Zone 4 FM on Brawley Rd. from Ashburn Rd. to Duffs Rd., Whitby	237	C	5,500,000	0	0	0	121,000	4,818,000	5,500	555,500	0	0
* 118 WM on Britannia Ave. from Thornton Rd. to Windfields Farm Dr., Oshawa	241	C	1,620,000	0	0	0	35,640	1,419,120	1,620	163,620	0	0
* 119 WM modifications in conjunction with Harmony Creek sewer, Oshawa		C	150,000	0	150,000	150,000	0	0	0	0	0	0
* 121 Zone 4 FM on Conlin Rd. from Harmony Rd. to Grandview St., Oshawa	232	D	300,000	0	0	0	6,600	262,800	300	30,300	0	0
* 122 Zone 4 FM on Harmony Rd. from Conlin Rd. to Z 4 Water Pumping Station, Oshawa	233	D	900,000	0	0	0	19,800	788,400	900	90,900	0	0

## 2021 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund	
					Benefit to Existing	Total User Revenue						C
* 123 Zone 4 FM from Z 4 Water Pumping Station to Zone 4 Reservoir, Oshawa	235	C	14,300,000	0	0	0	0	314,600	12,526,800	14,300	1,444,300	0
* 126 Zone 1 FM on Baseline Rd. from Prestonvale Rd. to Trulls Rd., Clarington	221	C	2,900,000	0	0	0	0	63,800	2,540,400	2,900	292,900	0
* 127 Zone 1 FM on Prestonvale Rd. from Baseline Rd. to 950m North, Courtice	223	C	1,550,000	0	0	0	0	34,100	1,357,800	1,550	156,550	0
* 129 Zone 1 FM on Lambs Rd. from Hwy 2 to Liberty Reservoir, Bowmanville	307	C	12,700,000	0	0	0	0	279,400	11,125,200	12,700	1,282,700	0
* 130 Zone 1 FM on Baseline Rd. from Martin Rd. to Liberty St., Bowmanville	308	C	4,650,000	0	0	0	0	102,300	4,073,400	4,650	469,650	0
* 134 Zone 1 feedermain from Arthur St. Reservoir to New Zone 1 Resvoir, Newcastle	317	C	2,650,000	0	0	0	0	58,300	2,321,400	2,650	267,650	0
* 136 Zone 2 feedermain on Arthur St. from Zone 2 WPS to Arthur WPS, Newcastle	318	C	4,100,000	0	0	0	0	90,200	3,591,600	4,100	414,100	0
* 137 WM on Grady Dr. from Whitehand Cres. to North St., Newcastle		C	700,000	0	700,000	700,000	0	0	0	0	0	0
Sub-total			81,920,000	0	850,000	850,000	0	1,783,540	71,017,320	81,070	8,188,070	0
<b>Other Linear Infrastructure</b>												
138 Water Meter installation and replacement		C	3,100,000	0	3,100,000	3,100,000	0	0	0	0	0	0
140 Replacement of Lead service connections		D,C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0	0
141 Replacement of valves		C	360,000	0	360,000	360,000	0	0	0	0	0	0
142 Replacement of hydrants		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			4,660,000	0	4,660,000	4,660,000	0	0	0	0	0	0
<b>B BUILDINGS</b>												
* 150 Garrard Rd Zone 1 Reservoir expansion, Whitby	202	D	3,800,000	0	167,200	167,200	79,800	3,180,600	3,800	368,600	0	
* 151 Garrard Rd Zone 3 Water Pumping Station - upgrades, Whitby	207	C	1,200,000	0	0	0	26,400	1,051,200	1,200	121,200	0	
* 152 Thickson Rd Zone 3 Water Pumping Station expansion, Whitby	210	C	10,900,000	0	1,427,900	1,427,900	208,190	8,294,900	9,810	959,200	0	
* 153 Proposed Zone 4 Water Pumping Station at Thickson Rd. Reservoir, Whitby	212	C	6,850,000	0	0	0	150,700	6,000,600	6,850	691,850	0	
* 154 Proposed Whitby Zone 4 Water Storage Facility	205	C	11,200,000	0	1,344,000	1,344,000	216,160	8,635,200	10,080	994,560	0	
* 156 Oshawa Water Supply Plant - break wall modifications		C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0	
* 162 Proposed Zone 4 Water Pumping Station at Harmony Rd. Reservoir, Oshawa	208	C	6,700,000	0	891,100	891,100	127,970	5,085,300	6,030	589,600	0	
* 165 Hortop Water Pumping Station Replacement, Oshawa		D	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0	
* 167 Liberty St. Zone 1 reservoir and abandon existing elevated tank	301	C	11,900,000	0	2,844,100	2,844,100	197,540	7,937,300	9,520	911,540	0	
* 168 Concession St. Water Pumping Station expansion, Bowmanville	303	C	5,200,000	0	312,000	312,000	107,640	4,279,600	4,680	496,080	0	
* 169 Proposed Zone 2 Water Pumping Station at Z1 Reservoir, Bowmanville	304	C	8,260,000	0	495,600	495,600	170,982	6,797,980	7,434	788,004	0	
* 171 Proposed Zone 1 reservoir, Newcastle Clarington	312	C	8,410,000	0	454,140	454,140	174,087	6,971,890	7,569	802,314	0	
* 172 Proposed Zone 2 Water Pumping Station, Newcastle	315	C	6,950,000	0	986,900	986,900	130,660	5,226,400	5,560	600,480	0	
* 176 Port Perry Water Storage Facility - additional Capacity 2.8 ML	401	D	1,000,000	0	87,000	87,000	20,000	800,000	900	92,100	0	
* 177 Greenbank Water Supply System - replacement of Municipal Well No. 1, Scugog		D	300,000	0	300,000	300,000	0	0	0	0	0	
* 178 New Well and pumphouse, Uxbridge	500	D	1,750,000	0	0	0	112,000	1,114,750	7,000	516,250	0	
* 179 Expansion of Quaker Hill reservoir, Uxbridge	501	D	500,000	0	0	0	11,000	438,000	500	50,500	0	
* 188 Water Storage Facilities condition assessments and rehabilitation works		D,C	150,000	0	0	0	0	0	0	0	150,000	
* 189 Wellhead protection at Regional well sites	800	D,C	800,000	0	800,000	800,000	0	0	0	0	0	
Sub-total			87,870,000	0	12,109,940	12,109,940	1,733,129	65,813,720	80,933	7,982,278	150,000	
<b>C MACHINERY AND EQUIPMENT</b>												
* 192 Finch Ave. Elevated Water Storage Tank Recoating, Pickering		C	500,000	0	500,000	500,000	0	0	0	0	0	
* 198 Grandview Water Pumping Station upgrades, Oshawa		D	150,000	0	150,000	150,000	0	0	0	0	0	
* 199 Oshawa Water Supply Plant - Valve Chamber Upgrades		C	600,000	0	600,000	600,000	0	0	0	0	0	
* 200 Oshawa Water Supply Plant- Header, valve and piping replacement, Oshawa		C	1,700,000	0	1,700,000	1,700,000	0	0	0	0	0	
* 202 Oshawa Water Supply Plant - upgrades to the UPS		C	730,000	0	730,000	730,000	0	0	0	0	0	
* 203 Waverly Rd. Water Pumping Station - upgrades, Oshawa		D	200,000	0	200,000	200,000	0	0	0	0	0	
* 206 Bowmanville Water Supply Plant-Replacement of the Standby power		C	1,700,000	0	1,700,000	1,700,000	0	0	0	0	0	
* 207 Concession St. Water Pumping Station - upgrades		D	200,000	0	200,000	200,000	0	0	0	0	0	
* 209 Orono Water Supply System - upgrades, Orono		D	150,000	0	150,000	150,000	0	0	0	0	0	
* 212 Port Perry Water Supply System - Municipal Well # 6 - Station upgrades		C	2,300,000	0	2,300,000	2,300,000	0	0	0	0	0	
* 215 Beaverton Water Supply Plant - upgrades		C	2,600,000	0	2,600,000	2,600,000	0	0	0	0	0	
* 216 Automatic Bulk Water Dispensing System		D,C	4,100,000	0	4,100,000	4,100,000	0	0	0	0	0	
* 217 Fuel Tank Compliance		C	100,000	0	100,000	100,000	0	0	0	0	0	
Sub-total			15,030,000	0	15,030,000	15,030,000	0	0	0	0	0	



## 2021 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0	0	0	0	0	0	0	0	0
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
220 Emergency Planning Update		D	100,000	0	100,000	100,000	0	0	0	0	0	0
* 221 Asset Condition Assessments-Report		D	200,000	0	0	0	0	0	0	0	0	200,000
* 222 Asset Condition Assessment/Investigation transmission pipe		D	100,000	0	0	0	0	0	0	0	0	100,000
223 Master planning energy management		D	200,000	0	200,000	200,000	0	0	0	0	0	0
224 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	0
225 Allowance for engineering studies		D	300,000	0	300,000	300,000	0	0	0	0	0	0
* 226 Allowance for CTC Source Water Protection Plan		D	300,000	0	300,000	300,000	0	0	0	0	0	0
227 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	0
228 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	0
229 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
230 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
231 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460,000	0	0	0	39,420	1,281,880	5,840	132,860	0	0
232 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400,000	0	0	0	10,800	351,200	1,600	36,400	0	0
233 Well interference works		D,C	400,000	0	0	0	0	400,000	0	0	0	0
Sub-total			3,925,000	0	1,365,000	1,365,000	50,220	2,033,080	7,440	169,260	300,000	0
<b>Total Cost Attribution</b>			<b>213,144,000</b>	<b>0</b>	<b>47,659,940</b>	<b>47,659,940</b>	<b>3,595,709</b>	<b>140,011,680</b>	<b>170,753</b>	<b>16,471,918</b>	<b>5,234,000</b>	

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2022 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund	
					Benefit to Existing	Total User Revenue						E
A	B	C	D	E	F	G	H	I				
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
* 1 R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville		C	1,550,000	0	1,550,000	1,550,000	0	0	0	0	0	0
* 3 R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington		D	200,000	0	200,000	200,000	0	0	0	0	0	0
* 4 R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax		D	200,000	0	200,000	200,000	0	0	0	0	0	0
* 8 R.R. 29 (Liverpool Rd.) from Kingston Rd. to Hwy 401, Pickering		C	200,000	0	200,000	200,000	0	0	0	0	0	0
* 9 R.R. 31 (Westney Rd.) from Finley Ave. to Harwood Ave., Ajax		C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0	0
* 10 R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
* 12 R.R. 38 (Whites Rd.) from Kingston Rd. to Finch Ave., Pickering		D	400,000	0	400,000	400,000	0	0	0	0	0	0
* 13 R.R. 52 (Thornton Rd.) from King St. to Stellar Dr., Oshawa		D	225,000	0	225,000	225,000	0	0	0	0	0	0
* 14 R.R. 53 (Stevenson Rd.) from Hwy 401 to Bond St., Oshawa		C	1,200,000	0	1,200,000	1,200,000	0	0	0	0	0	0
* 18 R.R. 58 Manning Rd./Adelaide Ave. Intersection improvements, Whitby/Oshawa		C	830,000	0	830,000	830,000	0	0	0	0	0	0
Sub-total			5,905,000	0	5,905,000	5,905,000	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
23A City of Pickering Road Program		D,C	275,000	0	275,000	275,000	0	0	0	0	0	0
23B Town of Ajax Road Program		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
23C Town of Whitby Road Program		D,C	620,000	0	620,000	620,000	0	0	0	0	0	0
23D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
23E Municipality of Clarington Road Program		D,C	370,000	0	370,000	370,000	0	0	0	0	0	0
23F Township of Scugog Road Program		D,C	130,000	0	130,000	130,000	0	0	0	0	0	0
23G Township of Uxbridge Road Program		D,C	270,000	0	270,000	270,000	0	0	0	0	0	0
23H Township of Brock Road Program		D,C	250,000	0	250,000	250,000	0	0	0	0	0	0
23i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			3,415,000	0	3,415,000	3,415,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
24 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0
<b>Betterments/Replacement</b>												
Water works to rectify identified system deficiencies independent of road programs in various locations												
26		D,C	800,000	0	800,000	800,000	0	0	0	0	0	0
27 Rehabilitation of existing watermain in various locations		D,C	3,000,000	0	3,000,000	3,000,000	0	0	0	0	0	0
33 Replacement of wm on Notion Rd. from Kingston Rd. to 230 m south, Pickering		D,C	315,000	0	0	0	0	0	0	0	0	315,000
* 44 Replacement of wm on Clements Rd. E. from Burcher Rd. to Dryer Dr., Ajax		D	200,000	0	0	0	0	0	0	0	0	200,000
* 68 Replacement of wm on Ritson Rd. from Kavartha Ave. to Grassmere Crt., Oshawa		C	750,000	0	0	0	0	0	0	0	0	750,000
77 Replacement of wm on First Ave. from Brock St. to Dominion St., Uxbridge		D,C	290,000	0	0	0	0	0	0	0	0	290,000
78 Replacement of wm on Rosa St. from Paxton St. to dead-end, Port Perry		D,C	675,000	0	0	0	0	0	0	0	0	675,000
* 82 Replacement of wm on Bay St. from Old Simcoe St. to Bigelow St., Port Perry		D	58,000	0	0	0	0	0	0	0	0	58,000
84 Replacement of wm on Jane St. from Ida St. to 220 m north, Sunderland		D,C	450,000	0	0	0	0	0	0	0	0	450,000
85 Replacement of wm on Maple St. W. from River St. to dead-end, Sunderland		D,C	129,000	0	0	0	0	0	0	0	0	129,000
* 95 Replacement of wm on Simcoe St. from CNR to John St., Beaverton		C	725,000	0	0	0	0	0	0	0	0	725,000
* 96 Replacement of wm on Simcoe St. from Beaverton WSP to CNR, Beaverton		C	722,000	0	0	0	0	0	0	0	0	722,000
* 98 Replacement of wm on King St. from Mara Rd. to dead-end, Beaverton		C	320,000	0	0	0	0	0	0	0	0	320,000
* 100 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			8,634,000	0	4,000,000	4,000,000	0	0	0	0	0	4,634,000

## 2022 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>System Expansion</b>												
* 104 Zone 2 FM on Taunton Rd. from Westney Rd. to Harwood Ave., Ajax	105	D	300,000	0	0	0	6,600	262,800	300	30,300	0	0
* 105 Zone 2 FM on William Jackson Dr. & Taunton Rd., Pickering/Ajax	106	C	5,300,000	0	0	0	116,600	4,642,800	5,300	535,300	0	0
* 106 Zone 2 FM on Church St. from Hydro ROW to Taunton Rd., Ajax	110	D	600,000	0	0	0	13,200	525,600	600	60,600	0	0
* 107 Zone 1 FM from Whitby Water Supply Plant to Thornton Rd., Whitby/Oshawa	215	D,C	31,100,000	0	0	0	684,200	27,243,600	31,100	3,141,100	0	0
* 112 Zone 3 FM on Anderson St. from Conlin Rd. to Clair Ave., Whitby	227	C	4,700,000	0	0	0	103,400	4,117,200	4,700	474,700	0	0
* 113 Zone 3 FM on Anderson St./Watford St. from Clair Ave. to Carnwith Dr., Whitby	226	D	600,000	0	0	0	13,200	525,600	600	60,600	0	0
* 121 Zone 4 FM on Conlin Rd. from Harmony Rd. to Grandview St., Oshawa	232	C	1,300,000	0	0	0	28,600	1,138,800	1,300	131,300	0	0
* 122 Zone 4 FM on Harmony Rd. from Conlin Rd. to Z 4 Water Pumping Station, Oshawa	233	C	3,750,000	0	0	0	82,500	3,285,000	3,750	378,750	0	0
* 128 Zone 1 FM on easement from Townline Rd. to Prestonvale Rd., Courtice	222	C	2,700,000	0	0	0	59,400	2,365,200	2,700	272,700	0	0
* 131 Zone 1 FM from Bowmanville Water Supply Plant to Baseline Rd., Bowmanville	305	EA	500,000	0	0	0	11,000	438,000	500	50,500	0	0
* 135 Zone 1 FM on King Ave. from Rudell Rd. to 200 m west of North St., Newcastle	316	C	1,350,000	0	0	0	29,700	1,182,600	1,350	136,350	0	0
Sub-total			52,200,000	0	0	0	1,148,400	45,727,200	52,200	5,272,200	0	0
<b>Other Linear Infrastructure</b>												
138 Water Meter installation and replacement		C	3,100,000	0	3,100,000	3,100,000	0	0	0	0	0	0
140 Depots - Replacement of lead service connections		D,C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0	0
141 Replacement of valves		C	360,000	0	360,000	360,000	0	0	0	0	0	0
142 Replacement of hydrants		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			4,660,000	0	4,660,000	4,660,000	0	0	0	0	0	0
<b>B BUILDINGS</b>												
* 145 Ajax Water Supply Plant expansion from 163.6 to 327 MLD, Ajax	100	D	4,500,000	2,520,000	1,485,000	1,485,000	31,590	315,450	1,980	145,980	0	0
* 147 Proposed Ajax Zone 1 Water Storage Facility, 11 ML, Ajax	101	D	600,000	0	0	0	13,200	525,600	600	60,600	0	0
* 148 Whitby Water Supply Plant expansion from 109 to 218 MLD, Whitby	200	D,C	149,000,000	0	8,642,000	8,642,000	8,969,800	89,400,000	566,200	41,422,000	0	0
* 149 Whitby Water Supply Plant - Plant No. 1 upgrades and rehabilitation works		E	4,900,000	0	4,900,000	4,900,000	0	0	0	0	0	0
* 157 Taunton Rd Zone 2 Reservoir Expansion, Oshawa	203	EA	500,000	0	0	0	11,000	438,000	500	50,500	0	0
* 158 Grandview Zone 2 Water Pumping Station expansion, Oshawa	209	EA	500,000	0	20,000	20,000	10,500	420,500	500	48,500	0	0
* 163 Proposed Oshawa Zone 4 Water Storage facility, Oshawa	206	C	10,700,000	0	1,819,000	1,819,000	195,061	7,778,900	8,774	898,265	0	0
* 164 Proposed Zone 5 Water Pumping Station at Harmony Rd. Reservoir & FM, Oshawa	214	C	9,000,000	0	0	0	198,000	7,884,000	9,000	909,000	0	0
* 165 Hortop Water Pumping Station Replacement, Oshawa		C	9,300,000	0	9,300,000	9,300,000	0	0	0	0	0	0
* 170 Bowmanville Zone 2 Reservoir expansion, Clarington	302	EA	600,000	0	30,600	30,600	12,540	498,600	540	57,720	0	0
* 175 Alternative water source, Scugog	400	C	18,900,000	0	6,369,300	6,369,300	801,360	7,975,800	51,030	3,702,510	0	0
* 178 New Well and pumphouse, Uxbridge	500	C	3,000,000	0	0	0	192,000	1,911,000	12,000	885,000	0	0
* 179 Expansion of Quaker Hill reservoir, Uxbridge	501	C	3,450,000	0	0	0	75,900	3,022,200	3,450	348,450	0	0
* 180 Sunderland New well and pumphouse with standby power, Brock	602	C	3,500,000	0	2,817,500	2,817,500	43,750	434,000	2,800	201,950	0	0
* 188 Water Storage Facilities condition assessments and rehabilitation works		D,C	150,000	0	0	0	0	0	0	0	0	150,000
* 189 Wellhead protection at Regional well sites	800	D,C	800,000	0	800,000	800,000	0	0	0	0	0	0
Sub-total			219,400,000	2,520,000	36,183,400	36,183,400	10,554,701	120,604,050	657,374	48,730,475	150,000	0
<b>C MACHINERY AND EQUIPMENT</b>												
* 194 Cherrywood Water Pumping Station upgrades and feedermain, Pickering		C	1,500,000	0	1,500,000	1,500,000	0	0	0	0	0	0
* 198 Grandview Water Pumping Station upgrades, Oshawa		C	2,100,000	0	2,100,000	2,100,000	0	0	0	0	0	0
* 203 Waverly Rd. Water Pumping Station - upgrades, Oshawa		C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
* 204 Taunton Rd. Water Pumping Station and Reservoir upgrades and replacements		C	700,000	0	700,000	700,000	0	0	0	0	0	0
* 207 Concession St. Water Pumping Station- station upgrades		C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
* 208 Newtonville Water Pumping Station - upgrades		D	150,000	0	150,000	150,000	0	0	0	0	0	0
* 209 Orono Water Supply System - upgrades		D	150,000	0	150,000	150,000	0	0	0	0	0	0
* 210 Mill St. Water Pumping Station - upgrades, Orono		D	150,000	0	150,000	150,000	0	0	0	0	0	0
* 211 Greenbank Water Supply System - upgrades to the UPS		D,C	500,000	0	500,000	500,000	0	0	0	0	0	0
* 214 Sunderland Standpipe Water Storage Tank - recoating, Brock		C	650,000	0	650,000	650,000	0	0	0	0	0	0
* 216 Automatic bulk water dispensing system		D,C	2,100,000	0	2,100,000	2,100,000	0	0	0	0	0	0
Sub-total			12,000,000	0	12,000,000	12,000,000	0	0	0	0	0	0

## 2022 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>D IT INFRASTRUCTURE</b>												
* 218 Plant SCADA system upgrades	700	C	5,000,000	0	3,150,000	3,150,000	148,000	1,189,500	20,500	492,000	0	
Sub-total			5,000,000	0	3,150,000	3,150,000	148,000	1,189,500	20,500	492,000	0	
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
* 219 Regional Water Supply Master Planning Study	701	D	800,000	0	0	0	21,600	702,400	3,200	72,800	0	
* 221 Asset Condition Assessments-Report		D	300,000	0	0	0	0	0	0	0	300,000	
* 222 Asset Condition Assessment/Investigation transmission pipe		D	150,000	0	0	0	0	0	0	0	150,000	
224 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	
225 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0	
* 226 Allowance for CTC Source Water Protection Plan		D	3,400,000	0	3,400,000	3,400,000	0	0	0	0	0	
227 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	
228 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	
229 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	
230 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	
Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460,000	0	0	0	39,420	1,281,880	5,840	132,860	0	
232 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400,000	0	0	0	10,800	351,200	1,600	36,400	0	
233 Well interference works		D,C	400,000	0	0	0	0	400,000	0	0	0	
Sub-total			7,525,000	0	4,015,000	4,015,000	71,820	2,735,480	10,640	242,060	450,000	
<b>Total Cost Attribution</b>			<b>318,839,000</b>	<b>2,520,000</b>	<b>73,428,400</b>	<b>73,428,400</b>	<b>11,922,921</b>	<b>170,256,230</b>	<b>740,714</b>	<b>54,736,735</b>	<b>5,234,000</b>	

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2023 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund	
					Benefit to Existing	Total User Revenue						E
A	B	C	D	E	F	G	H	I				
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
* 7 R.R. 28 (Rossland Rd.) from Ritson Rd. to Harmony Rd., Oshawa		C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
Sub-total			2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
23A City of Pickering Road Program		D,C	275,000	0	275,000	275,000	0	0	0	0	0	0
23B Town of Ajax Road Program		D,C	1,650,000	0	1,650,000	1,650,000	0	0	0	0	0	0
23C Town of Whitby Road Program		D,C	620,000	0	620,000	620,000	0	0	0	0	0	0
23D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
23E Municipality of Clarington Road Program		D,C	370,000	0	370,000	370,000	0	0	0	0	0	0
23F Township of Scugog Road Program		D,C	130,000	0	130,000	130,000	0	0	0	0	0	0
23G Township of Uxbridge Road Program		D,C	270,000	0	270,000	270,000	0	0	0	0	0	0
23H Township of Brock Road Program		D,C	250,000	0	250,000	250,000	0	0	0	0	0	0
23i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			4,865,000	0	4,865,000	4,865,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
24 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0
<b>Betterments/Replacement</b>												
26 Water works to rectify identified system deficiencies independent of road programs in various locations		D,C	800,000	0	800,000	800,000	0	0	0	0	0	0
27 Rehabilitation of existing water mains in various locations		D,C	3,000,000	0	3,000,000	3,000,000	0	0	0	0	0	0
* 44 Replacement of wm on Clements Rd. E. from Burcher Rd. to Dryer Dr., Ajax		C	1,250,000	0	0	0	0	0	0	0	0	1,250,000
56 Replacement of wm on Hwy 2 from Midtown Dr. to Queen St., Oshawa		D,C	465,000	0	0	0	0	0	0	0	0	465,000
69 Replacement of wm on Oxford St. and Porter St., Oshawa		D,C	620,000	0	0	0	0	0	0	0	0	620,000
81 Replacement of wm on Ottawa St. from Queen St. to MacDonald St., Port Perry		D,C	310,000	0	0	0	0	0	0	0	0	310,000
* 82 Replacement of wm on Bay St. from Old Simcoe St. to Bigelow St., Port Perry		C	385,000	0	0	0	0	0	0	0	0	385,000
89 Replacement of wm on Centre St. from Mara Rd. to James St., Beaverton		D,C	495,000	0	0	0	0	0	0	0	0	495,000
99 Replacement of water mains in various locations		D,C	1,059,000	0	0	0	0	0	0	0	0	1,059,000
100 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			8,584,000	0	4,000,000	4,000,000	0	0	0	0	0	4,584,000
<b>System Expansion</b>												
* 104 Zone 2 FM on Taunton Rd. from Westney Rd. to Harwood Ave., Ajax	105	C	2,600,000	0	0	0	57,200	2,277,600	2,600	262,600	0	0
* 106 Zone 2 FM on Church St. from Hydro ROW to Taunton Rd., Ajax	107	C	3,000,000	0	0	0	66,000	2,628,000	3,000	303,000	0	0
* 108 Zone 1 on Manning Rd. from Anderson St. to Hydro Corridor, Whitby	218	D	400,000	0	0	0	8,800	350,400	400	40,400	0	0
* 113 Zone 3 FM on Anderson Rd./Watford St. from Clair Ave. to Carnwith Dr., Whitby	226	C	6,800,000	0	0	0	149,600	5,956,800	6,800	686,800	0	0
* 120 Zone 3 FM on Conlin Rd. from Ritson Rd. to Wilson Rd., Oshawa	228	C	3,925,000	0	0	0	86,350	3,438,300	3,925	396,425	0	0
* 124 Zone 4 FM on Ritson Rd. from Columbus Rd. to Winchester Rd., Oshawa	239	D	600,000	0	0	0	13,200	525,600	600	60,600	0	0
* 125 Zone 4 FM on Winchester Rd. from Ritson Rd. to Harmony Rd., Oshawa	240	D	600,000	0	0	0	13,200	525,600	600	60,600	0	0
Sub-total			17,925,000	0	0	0	394,350	15,702,300	17,925	1,810,425	0	0
<b>Other Linear Infrastructure</b>												
138 Water Meter installation and replacement		C	3,100,000	0	3,100,000	3,100,000	0	0	0	0	0	0
140 Depots - Replacement of Lead service connections		D,C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0	0
141 Replacement of valves		C	360,000	0	360,000	360,000	0	0	0	0	0	0
142 Replacement of hydrants		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			4,660,000	0	4,660,000	4,660,000	0	0	0	0	0	0

## 2023 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>B BUILDINGS</b>												
* 150 Garrard Rd. Reservoir expansion, Whitby	202	C	13,350,000	0	587,400	587,400	280,350	11,173,950	13,350	1,294,950	0	
* 166 Bowmanville Water Supply Plant Expansion from 36 to 55 MLD, Clarington	300	D	1,500,000	0	112,500	112,500	88,650	883,500	5,550	409,800	0	
* 176 Port Perry Water Storage Facility - additional Capacity 2.8 ML, Scugog	401	C	11,450,000	0	996,150	996,150	229,000	9,160,000	10,305	1,054,545	0	
* 177 Greenbank Water Supply System - replacement of Municipal Well No. 1, Scugog		C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0	
* 188 Water Storage Facilities condition assessments and rehabilitation works		D,C	150,000	0	0	0	0	0	0	0	150,000	
* 189 Wellhead protection at Regional well sites	800	D,C	800,000	0	800,000	800,000	0	0	0	0	0	
* 190 Water Supply Plant - Asset Management Remediation and Rehabilitation works		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	
Sub-total			33,250,000	0	8,496,050	8,496,050	598,000	21,217,450	29,205	2,759,295	150,000	
<b>C MACHINERY AND EQUIPMENT</b>												
* 208 Newtonville Water Pumping Station - upgrades, Clarington		D	150,000	0	150,000	150,000	0	0	0	0	0	
* 209 Orono Water Supply System - upgrades, Clarington		C	2,500,000	0	2,500,000	2,500,000	0	0	0	0	0	
* 210 Mill St. Water Pumping Station - upgrades, Orono		D	150,000	0	150,000	150,000	0	0	0	0	0	
* 216 Automatic bulk water dispensing system		D,C	4,100,000	0	4,100,000	4,100,000	0	0	0	0	0	
Sub-total			6,900,000	0	6,900,000	6,900,000	0	0	0	0	0	
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0	0	0	0	0	0	0	0	
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
* 221 Asset Condition Assessments-Report		D	300,000	0	0	0	0	0	0	0	300,000	
* 222 Asset Condition Assessment/Investigation transmission pipe		D	200,000	0	0	0	0	0	0	0	200,000	
224 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	
225 Allowance for engineering studies		D	300,000	0	300,000	300,000	0	0	0	0	0	
227 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	
228 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	
229 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	
230 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	
231 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460,000	0	0	0	39,420	1,281,880	5,840	132,860	0	
232 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400,000	0	0	0	10,800	351,200	1,600	36,400	0	
233 Well interference works		D,C	400,000	0	0	0	0	400,000	0	0	0	
Sub-total			3,525,000	0	765,000	765,000	50,220	2,033,080	7,440	169,260	500,000	
<b>Total Cost Attribution</b>			<b>81,809,000</b>	<b>0</b>	<b>31,786,050</b>	<b>31,786,050</b>	<b>1,042,570</b>	<b>38,952,830</b>	<b>54,570</b>	<b>4,738,980</b>	<b>5,234,000</b>	

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2024 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund	
					Benefit to Existing	Total User Revenue						E
A	B	C	D	E	F	G	H	I				
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
* 3 R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington		C	650,000	0	650,000	650,000	0	0	0	0	0	0
* 4 R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax		C	1,600,000	0	1,600,000	1,600,000	0	0	0	0	0	0
* 11 R.R. 37 (Finch Ave.) from Altona Rd. to Brock Rd., Pickering		D	500,000	0	500,000	500,000	0	0	0	0	0	0
* 12 R.R. 38 (Whites Rd.) from Kingston Rd. to Finch Ave., Pickering		C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
* 13 R.R. 52 (Thornton Rd.) from King St. to Stellar Dr., Oshawa		C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
* 15 R.R. 53 (Stevenson Rd.) from Bond St. to Rossland Rd., Oshawa		C	3,300,000	0	3,300,000	3,300,000	0	0	0	0	0	0
* 20 R.R. 59 (Gibb St./Olive Ave. extension from Drew St. to Ritson Rd., Oshawa		D	350,000	0	350,000	350,000	0	0	0	0	0	0
Sub-total			9,500,000	0	9,500,000	9,500,000	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
23A City of Pickering Road Program		D,C	275,000	0	275,000	275,000	0	0	0	0	0	0
23B Town of Ajax Road Program		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
23C Town of Whitby Road Program		D,C	620,000	0	620,000	620,000	0	0	0	0	0	0
23D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
23E Municipality of Clarington Road Program		D,C	370,000	0	370,000	370,000	0	0	0	0	0	0
23F Township of Scugog Road Program		D,C	130,000	0	130,000	130,000	0	0	0	0	0	0
23G Township of Uxbridge Road Program		D,C	270,000	0	270,000	270,000	0	0	0	0	0	0
23H Township of Brock Road Program		D,C	250,000	0	250,000	250,000	0	0	0	0	0	0
23i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			3,415,000	0	3,415,000	3,415,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
24 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0

## 2024 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund
					Benefit to Existing	Total User Revenue					
<b>Betterments/Replacement</b>											
26 Water works to rectify identified system deficiencies independent of road programs in various locations		D,C	800,000	0	800,000	800,000	0	0	0	0	0
27 Rehabilitation of existing water mains in various locations		D,C	3,000,000	0	3,000,000	3,000,000	0	0	0	0	0
* 31 Replacement of wm on Rougemount Dr. from Kingston Rd. to 100 m south, Pickering		D,C	155,000	0	0	0	0	0	0	0	155,000
* 42 Replacement of wm on Dowty Rd. from Thomson St. to Hunt St., Ajax		D,C	720,000	0	0	0	0	0	0	0	720,000
* 45 Replacement of wm on Consumers Dr. from Thickson Rd. to Sunray St., Whitby		D,C	670,000	0	0	0	0	0	0	0	670,000
* 47 Replacement of wm on Maria St. from Annes St. to Frances St., Whitby		D,C	515,000	0	0	0	0	0	0	0	515,000
* 55 Replacement of wm on Hwy 2 from Garrard Rd. to Thornton Rd., Oshawa		D,C	155,000	0	0	0	0	0	0	0	155,000
* 57 Replacement of wm on Hwy 2 from Wilson Rd. to Harmony Crk., Oshawa		D,C	850,000	0	0	0	0	0	0	0	850,000
* 60 Replacement of wm on Hwy 2 from Harmony Rd. to Kingsway College, Oshawa		D	271,000	0	0	0	0	0	0	0	271,000
* 74 Replacement of wm on Baseline Rd. from Liberty St. to Mearns Ave., Bowmanville		D	200,000	0	0	0	0	0	0	0	200,000
* 99 Replacement of water mains in various locations		D,C	1,048,000	0	0	0	0	0	0	0	1,048,000
100 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0
Sub-total			8,584,000	0	4,000,000	4,000,000	0	0	0	0	4,584,000
<b>System Expansion</b>											
* 108 Zone 1 FM on Manning Rd. from Anderson St. to Hydro Corridor, Whitby	218	C	1,550,000	0	0	0	34,100	1,357,800	1,550	156,550	0
* 116 Zone 4 FM on Ashburn Rd. from Brawley Rd. to Columbus Rd., Whitby	234	D	700,000	0	0	0	15,400	613,200	700	70,700	0
* 131 Zone 1 FM from Bowmanville Water Supply Plant to Baseline Rd., Bowmanville	305	D	500,000	0	0	0	11,000	438,000	500	50,500	0
* 133 Zone 2 FM on Liberty St. from Concession Rd 3 & 4 to Zone 2 Res, Bowmanville	309	D	600,000	0	0	0	13,200	525,600	600	60,600	0
Sub-total			3,350,000	0	0	0	73,700	2,934,600	3,350	338,350	0
<b>Other Linear Infrastructure</b>											
138 Water Meter installation and replacement		C	3,100,000	0	3,100,000	3,100,000	0	0	0	0	0
140 Depots - Replacement of Lead service connections		D,C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0
141 Replacement of valves		C	360,000	0	360,000	360,000	0	0	0	0	0
142 Replacement of hydrants		C	200,000	0	200,000	200,000	0	0	0	0	0
Sub-total			4,660,000	0	4,660,000	4,660,000	0	0	0	0	0
<b>B BUILDINGS</b>											
* 145 Ajax Water Supply Plant expansion from 163.6 to 327 MLD, Ajax	100	D,C	105,500,000	59,080,000	0	0	2,958,220	29,582,200	185,680	13,693,900	0
* 147 Proposed Ajax Zone 1 Water Storage Facility - 11 ML, Ajax	101	C	11,100,000	0	0	0	244,200	9,723,600	11,100	1,121,100	0
157 Taunton Rd Zone 2 Reservoir Expansion, Oshawa	203	D	1,200,000	0	0	0	26,400	1,051,200	1,200	121,200	0
* 158 Grandview Zone 2 Water Pumping Station expansion, Oshawa	209	D	600,000	0	24,000	24,000	12,600	504,600	600	58,200	0
* 159 Taunton Rd. Zone 3, Water Pumping Station expansion, Oshawa	211	EA	500,000	0	74,000	74,000	9,400	373,000	400	43,200	0
* 161 Harmony Rd. Zone 3 Reservoir expansion, Oshawa	204	EA	500,000	0	74,000	74,000	9,400	373,000	400	43,200	0
* 170 Bowmanville Zone 2 Reservoir expansion, Clarington	302	D	1,000,000	0	51,000	51,000	20,900	831,000	900	96,200	0
* 173 Proposed Newcastle Zone 2 Reservoir, Clarington	314	EA	1,500,000	0	213,000	213,000	28,200	1,128,000	1,200	129,600	0
174 Proposed Orono Water Storage Facility, Clarington	313	EA	900,000	0	784,800	784,800	2,547	100,800	117	11,736	0
* 188 Water Storage Facilities condition assessments and rehabilitation works		D,C	150,000	0	0	0	0	0	0	0	150,000
* 189 Wellhead protection at Regional well sites	800	D,C	800,000	0	800,000	800,000	0	0	0	0	0
Sub-total			123,750,000	59,080,000	2,020,800	2,020,800	3,311,867	43,667,400	201,597	15,318,336	150,000
<b>C MACHINERY AND EQUIPMENT</b>											
* 195 Cherrywood Water Pumping Station - Upgrades, Pickering		D	150,000	0	150,000	150,000	0	0	0	0	0
* 208 Newtonville Water Pumping Station - upgrades		C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0
* 210 Mill St. Water Pumping Station - upgrades, Orono		C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0
* 216 Automatic bulk water dispensing system		D,C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0
Sub-total			6,150,000	0	6,150,000	6,150,000	0	0	0	0	0
<b>D IT INFRASTRUCTURE</b>											
* 218 Plant SCADA system upgrades	700	C	5,000,000	0	3,150,000	3,150,000	148,000	1,189,500	20,500	492,000	0
Sub-total			5,000,000	0	3,150,000	3,150,000	148,000	1,189,500	20,500	492,000	0



## 2024 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund
					Benefit to Existing	Total User Revenue					
<b>E ALLOWANCES AND OTHER PROVISIONS</b>			<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>
* 221 Asset Condition Assessments-Report		D	300,000	0	0	0	0	0	0	0	300,000
* 222 Asset Condition Assessment/Investigation transmission pipe		D	200,000	0	0	0	0	0	0	0	200,000
224 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0
225 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0
227 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0
228 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0
229 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
230 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
231 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460,000	0	0	0	39,420	1,281,880	5,840	132,860	0
232 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400,000	0	0	0	10,800	351,200	1,600	36,400	0
233 Well interference works		D,C	1,000,000	0	0	0	0	1,000,000	0	0	0
Sub-total			3,975,000	0	615,000	615,000	50,220	2,633,080	7,440	169,260	500,000
<b>Total Cost Attribution</b>			<b>168,484,000</b>	<b>59,080,000</b>	<b>33,610,800</b>	<b>33,610,800</b>	<b>3,583,787</b>	<b>50,424,580</b>	<b>232,887</b>	<b>16,317,946</b>	<b>5,234,000</b>

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2025 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution								
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund		
					Benefit to Existing	Total User Revenue						E	F
A	B	C	D	E	F	G	H	I					
<b>A LINEAR INFRASTRUCTURE</b>													
<b>Regional Road Program</b>													
* 6 R.R. 26 (Thickson Rd.) from Consumers Dr. to Dundas St., Whitby		D	400,000	0	400,000	400,000	0	0	0	0	0	0	0
22 Allowance for watermains in conjunction with Regional Roads		D,C	1,600,000	0	1,600,000	1,600,000	0	0	0	0	0	0	0
Sub-total			2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>													
23A City of Pickering Road Program		D,C	275,000	0	275,000	275,000	0	0	0	0	0	0	0
23B Town of Ajax Road Program		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0	0
23C Town of Whitby Road Program		D,C	620,000	0	620,000	620,000	0	0	0	0	0	0	0
23D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0	0
23E Municipality of Clarington Road Program		D,C	370,000	0	370,000	370,000	0	0	0	0	0	0	0
23F Township of Scugog Road Program		D,C	130,000	0	130,000	130,000	0	0	0	0	0	0	0
23G Township of Uxbridge Road Program		D,C	270,000	0	270,000	270,000	0	0	0	0	0	0	0
23H Township of Brock Road Program		D,C	250,000	0	250,000	250,000	0	0	0	0	0	0	0
23i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0	0
Sub-total			3,415,000	0	3,415,000	3,415,000	0	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>													
24 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0	0
<b>Betterments/Replacement</b>													
26 Water works to rectify identified system deficiencies independent of road programs in various locations		D,C	800,000	0	800,000	800,000	0	0	0	0	0	0	0
27 Rehabilitation of existing watermains in various locations		D,C	3,000,000	0	3,000,000	3,000,000	0	0	0	0	0	0	0
* 34 Replacement of wm on Alliance Rd. fr 20 m N Bayly St. to S/L, Pickering		D,C	475,000	0	0	0	0	0	0	0	0	475,000	0
* 43 Replacement of wm on Cedar St. from Tudor Ave. W. to Beatty Rd., Ajax		D,C	460,000	0	0	0	0	0	0	0	0	0	460,000
* 60 Replacement of wm on Hwy 2 from Harmony Rd. to Kingsway College, Oshawa		C	1,789,000	0	0	0	0	0	0	0	0	0	1,789,000
* 74 Replacement of wm on Baseline Rd. from Liberty St. to Mearns Ave., Bowmanville		C	1,050,000	0	0	0	0	0	0	0	0	0	1,050,000
* 83 Replacement of wm on Perry St. from North St. to Paxton St., Port Perry		D,C	210,000	0	0	0	0	0	0	0	0	0	210,000
* 86 Replacement of wm on Cameron St. from McRae St. to Simcoe St., Cannington		D	250,000	0	0	0	0	0	0	0	0	0	250,000
100 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0	0
Sub-total			8,234,000	0	4,000,000	4,000,000	0	0	0	0	0	0	4,234,000
<b>System Expansion</b>													
* 103 Zone 1 FM on Bayly St. from Toy Ave. to Pickering Beach, Pickering/Ajax	102	D	1,000,000	209,100	0	0	17,300	692,800	800	80,000	0	0	0
* 116 Zone 4 FM on Ashburn Rd. from Brawley Rd. to Columbus Rd., Whitby	234	C	7,100,000	0	0	0	156,200	6,219,600	7,100	717,100	0	0	0
* 117 Zone 4 FM on Columbus Rd. from Thickson Rd. to Ritson Rd., Oshawa	238	D	1,500,000	0	0	0	33,000	1,314,000	1,500	151,500	0	0	0
* 124 Zone 4 FM on Ritson Rd. from Columbus Rd. to Winchester Rd., Oshawa	239	C	6,200,000	0	0	0	136,400	5,431,200	6,200	626,200	0	0	0
* 125 Zone 4 FM on Winchester Rd. from Ritson Rd. to Harmony Rd., Oshawa	240	C	5,900,000	0	0	0	129,800	5,168,400	5,900	595,900	0	0	0
Sub-total			21,700,000	209,100	0	0	472,700	18,826,000	21,500	2,170,700	0	0	0
<b>Other Linear Infrastructure</b>													
138 Water Meter installation and replacement		C	3,100,000	0	3,100,000	3,100,000	0	0	0	0	0	0	0
140 Depots - Replacement of Lead service connections		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	0	0
141 Replacement of valves		C	360,000	0	360,000	360,000	0	0	0	0	0	0	0
142 Replacement of hydrants		C	200,000	0	200,000	200,000	0	0	0	0	0	0	0
Sub-total			8,660,000	0	8,660,000	8,660,000	0	0	0	0	0	0	0

## 2025 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>B BUILDINGS</b>												
* 149 Whitby Water Supply Plant - Plant No. 1 upgrades		C	18,000,000	0	18,000,000	18,000,000	0	0	0	0	0	0
* 161 Harmony Rd. Zone 3 Reservoir expansion, Oshawa	204	D	500,000	0	74,000	74,000	9,400	373,000	400	43,200	0	0
* 166 Bowmanville Water Supply Plant Expansion from 36 to 55 MLD, Bowmanville	300	C	39,200,000	0	0	0	2,508,800	24,970,400	156,800	11,564,000	0	0
* 188 Water Storage Facilities condition assessments and rehabilitation works		D,C	500,000	0	0	0	0	0	0	0	500,000	0
* 189 Wellhead protection at Regional well sites	800	D,C	800,000	0	800,000	800,000	0	0	0	0	0	0
Sub-total			59,000,000	0	18,874,000	18,874,000	2,518,200	25,343,400	157,200	11,607,200	500,000	0
<b>C MACHINERY AND EQUIPMENT</b>												
* 195 Cherrywood Water Pumping Station - Upgrades, Pickering		D	150,000	0	150,000	150,000	0	0	0	0	0	0
Sub-total			150,000	0	150,000	150,000	0	0	0	0	0	0
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0	0	0	0	0	0	0	0	0
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
* 221 Asset Condition Assessments-Report		D	300,000	0	0	0	0	0	0	0	0	300,000
* 222 Asset Condition Assessment/Investigation transmission pipe		D	200,000	0	0	0	0	0	0	0	0	200,000
223 Master Planning energy management		D	200,000	0	200,000	200,000	0	0	0	0	0	0
224 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	0
225 Allowance for engineering studies		D	300,000	0	300,000	300,000	0	0	0	0	0	0
* 226 Allowance for CTC Source Water Protection Plan		D	300,000	0	300,000	300,000	0	0	0	0	0	0
227 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	0
228 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	0
229 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
230 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
231 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460,000	0	0	0	39,420	1,281,880	5,840	132,860	0	0
232 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400,000	0	0	0	10,800	351,200	1,600	36,400	0	0
233 Well interference works		D,C	1,000,000	0	0	0	0	1,000,000	0	0	0	0
Sub-total			4,625,000	0	1,265,000	1,265,000	50,220	2,633,080	7,440	169,260	500,000	0
<b>Total Cost Attribution</b>			<b>107,884,000</b>	<b>209,100</b>	<b>38,464,000</b>	<b>38,464,000</b>	<b>3,041,120</b>	<b>46,802,480</b>	<b>186,140</b>	<b>13,947,160</b>	<b>5,234,000</b>	

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2026 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
* 10 R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby		C	125,000	0	125,000	125,000	0	0	0	0	0	0
11 R.R. 37 (Finch Ave.) from Altona Rd. to Brock Rd., Pickering		C	5,100,000	0	5,100,000	5,100,000	0	0	0	0	0	0
Sub-total			5,225,000	0	5,225,000	5,225,000	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
23A City of Pickering Road Program		D,C	275,000	0	275,000	275,000	0	0	0	0	0	0
23B Town of Ajax Road Program		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
23C Town of Whitby Road Program		D,C	620,000	0	620,000	620,000	0	0	0	0	0	0
23D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
23E Municipality of Clarington Road Program		D,C	370,000	0	370,000	370,000	0	0	0	0	0	0
23F Township of Scugog Road Program		D,C	130,000	0	130,000	130,000	0	0	0	0	0	0
23G Township of Uxbridge Road Program		D,C	270,000	0	270,000	270,000	0	0	0	0	0	0
23H Township of Brock Road Program		D,C	250,000	0	250,000	250,000	0	0	0	0	0	0
23i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			3,415,000	0	3,415,000	3,415,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
* 24 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0
<b>Betterments/Replacement</b>												
Water works to rectify identified system deficiencies independent of road programs in various locations		D,C	800,000	0	800,000	800,000	0	0	0	0	0	0
27 Rehabilitation of existing watermains in various locations		D,C	3,000,000	0	3,000,000	3,000,000	0	0	0	0	0	0
32 Replacement of wm on Brock Rd. from Feldspar Cr. to Clements Rd., Pickering		D,C	515,000	0	0	0	0	0	0	0	0	515,000
* 46 Replacement of wm on Centre St. N. from Palmerston Ave. to Rossland Rd., Whitby		D	490,000	0	0	0	0	0	0	0	0	490,000
* 54 Replacement of wm on Thornton Rd. from Bloor St. to under CNR, Oshawa		D	400,000	0	0	0	0	0	0	0	0	400,000
76 Replacement of wm on Amos St. from Toronto St. to Hwy 401, Newcastle		D,C	260,000	0	0	0	0	0	0	0	0	260,000
* 86 Replacement of wm on Cameron St. from McRae St. to Simcoe St., Cannington		C	780,000	0	0	0	0	0	0	0	0	780,000
87 Replacement of wm on Laidlaw St. from Cameon St. to Park St., Cannington		D,C	485,000	0	0	0	0	0	0	0	0	485,000
99 Replacement of watermains in various locations		D,C	1,654,000	0	0	0	0	0	0	0	0	1,654,000
100 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			8,584,000	0	4,000,000	4,000,000	0	0	0	0	0	4,584,000
<b>System Expansion</b>												
* 131 Zone 1 FM from Bowmanville Water Supply Plant to Baseline Rd., Bowmanville	305	C	8,960,000	0	0	0	197,120	7,848,960	8,960	904,960	0	0
* 132 Zone 1 FM on Baseline Rd. from Wharf St. to Mearns Ave., Bowmanville	306	EA	520,000	0	0	0	11,440	455,520	520	52,520	0	0
* 133 Zone 2 FM on Liberty St. from Concession Rd. 3 & 4 to Zone 2 Reservoir, Bowmanville	309	C	7,000,000	0	0	0	154,000	6,132,000	7,000	707,000	0	0
Sub-total			16,480,000	0	0	0	362,560	14,436,480	16,480	1,664,480	0	0
<b>Other Linear Infrastructure</b>												
138 Water Meter installation and replacement		C	3,100,000	0	3,100,000	3,100,000	0	0	0	0	0	0
140 Depots - Replacement of Lead service connections		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	0
141 Replacement of valves		C	360,000	0	360,000	360,000	0	0	0	0	0	0
142 Replacement of hydrants		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			8,660,000	0	8,660,000	8,660,000	0	0	0	0	0	0

## 2026 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution									
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund			
					Benefit to Existing	Total User Revenue						C	D	E
<b>B BUILDINGS</b>														
* 155 Proposed Whitby Zone 5 Water Pumping Station and feedermain, Whitby	213	EA	500,000	0	0	0	11,000	438,000	500	50,500	0			
* 157 Taunton Rd Zone 2 Reservoir Expansion, Oshawa	203	C	11,100,000	0	0	0	244,200	9,723,600	11,100	1,121,100	0			
* 158 Grandview Zone 2 Water Pumping Station expansion, Oshawa	209	C	5,500,000	0	220,000	220,000	115,500	4,625,500	5,500	533,500	0			
* 159 Taunton Rd. Zone 3 Water Pumping Station expansion, Oshawa	211	D	690,000	0	102,120	102,120	12,972	514,740	552	59,616	0			
* 161 Harmony Rd Zone 3 Reservoir expansion, Oshawa	204	C	3,550,000	0	525,400	525,400	66,740	2,648,300	2,840	306,720	0			
* 170 Bowmanville Zone 2 Reservoir expansion, Clarington	302	C	6,750,000	0	344,250	344,250	141,075	5,609,250	6,075	649,350	0			
* 173 Proposed Zone 2 Reservoir, Newcastle	314	D	600,000	0	85,200	85,200	11,280	451,200	480	51,840	0			
* 174 Proposed Orono Water Storage Facility, Clarington	313	D	500,000	0	436,000	436,000	1,415	56,000	65	6,520	0			
* 186 Beaverton Water Supply Plant expansion, Brock	604	EA	500,000	0	250,000	250,000	15,950	159,250	1,000	73,800	0			
* 187 Beaverton additional Water Storage from 2 ML to 4.8 ML, Brock	605	EA	500,000	0	258,500	258,500	5,300	211,500	24,450	250	0			
* 188 Water Storage Facilities condition assessments and rehabilitation works		D,C	150,000	0	0	0	0	0	0	0	0	150,000		
* 189 Wellhead protection at Regional well sites	800	D,C	800,000	0	800,000	800,000	0	0	0	0	0	0		
* 190 Water Supply Plant - Asset Management Remediation and Rehabilitation works		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	0		
Sub-total			36,140,000	0	8,021,470	8,021,470	625,432	24,437,340	52,562	2,853,196	0	150,000		
<b>C MACHINERY AND EQUIPMENT</b>														
* 193 Rosebank Water Pumping Station - Upgrades, Pickering		D	150,000	0	150,000	150,000	0	0	0	0	0	0		
* 195 Cherrywood Water Pumping Station - Upgrades, Pickering		C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0		
Sub-total			2,150,000	0	2,150,000	2,150,000	0	0	0	0	0	0		
<b>D IT INFRASTRUCTURE</b>														
Sub-total			0	0	0	0	0	0	0	0	0	0		
<b>E ALLOWANCES AND OTHER PROVISIONS</b>														
* 221 Asset Condition Assessments-Report		D	300,000	0	0	0	0	0	0	0	0	300,000		
* 222 Asset Condition Assessment/Investigation transmission pipe		D	200,000	0	0	0	0	0	0	0	0	200,000		
224 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	0		
225 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0	0		
227 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	0		
228 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	0		
229 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0		
230 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0		
231 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460,000	0	0	0	39,420	1,281,880	5,840	132,860	0	0		
232 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400,000	0	0	0	10,800	351,200	1,600	36,400	0	0		
233 Well interference works		D,C	1,000,000	0	0	0	0	1,000,000	0	0	0	0		
Sub-total			3,975,000	0	615,000	615,000	50,220	2,633,080	7,440	169,260	0	500,000		
<b>Total Cost Attribution</b>			<b>84,729,000</b>	<b>0</b>	<b>32,186,470</b>	<b>32,186,470</b>	<b>1,038,212</b>	<b>41,506,900</b>	<b>76,482</b>	<b>4,686,936</b>	<b>0</b>	<b>5,234,000</b>		

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2027 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
* 6 R.R. 26 (Thickson Rd.) from Consumers Dr. to Dundas St., Whitby		C	2,500,000	0	2,500,000	2,500,000	0	0	0	0	0	0
Sub-total			2,500,000	0	2,500,000	2,500,000	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
23A City of Pickering Road Program		D,C	275,000	0	275,000	275,000	0	0	0	0	0	0
23B Town of Ajax Road Program		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
23C Town of Whitby Road Program		D,C	620,000	0	620,000	620,000	0	0	0	0	0	0
23D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
23E Municipality of Clarington Road Program		D,C	370,000	0	370,000	370,000	0	0	0	0	0	0
23F Township of Scugog Road Program		D,C	130,000	0	130,000	130,000	0	0	0	0	0	0
23G Township of Uxbridge Road Program		D,C	270,000	0	270,000	270,000	0	0	0	0	0	0
23H Township of Brock Road Program		D,C	250,000	0	250,000	250,000	0	0	0	0	0	0
23i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			3,415,000	0	3,415,000	3,415,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
24 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0
<b>Betterments/Replacement</b>												
26 Water works to rectify identified system deficiencies independent of road programs in various locations		D,C	800,000	0	800,000	800,000	0	0	0	0	0	0
27 Rehabilitation of existing watermain in various locations		D,C	3,000,000	0	3,000,000	3,000,000	0	0	0	0	0	0
* 54 Replacement of wm on Thornton Rd. from Bloor St. to under CNR, Oshawa		C	2,000,000	0	0	0	0	0	0	0	2,000,000	0
70 Replacement of watermain on Ansley Cr. fr Rossland Rd. to dead-end, Oshawa		D,C	320,000	0	0	0	0	0	0	0	0	320,000
73 Replacement of wm on Port Darlington Rd. from Lake Rd. to WSP, Bowmanville		D	2,100,000	0	0	0	0	0	0	0	0	2,100,000
99 Replacement of watermain in various locations		D,C	249,000	0	0	0	0	0	0	0	0	249,000
* 100 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			8,669,000	0	4,000,000	4,000,000	0	0	0	0	0	4,669,000
<b>System Expansion</b>												
* 103 Zone 1 FM on Bayly St. from Toy Ave. to Pickering Beach, Pickering/Ajax	103	C	18,200,000	3,805,620	0	0	314,860	12,608,960	14,560	1,456,000	0	0
* 109 Zone 1 West Whitby FM from Brock St./Victoria St. to Rossland Rd., Whitby	242	EA	600,000	0	30,600	30,600	12,540	498,600	540	57,720	0	0
* 117 Zone 4 FM on Columbus Rd. from Thickson Rd. to Ritson Rd., Oshawa	238	C	15,500,000	0	0	0	341,000	13,578,000	15,500	1,565,500	0	0
Sub-total			34,300,000	3,805,620	30,600	30,600	668,400	26,685,560	30,600	3,079,220	0	0
<b>Other Linear Infrastructure</b>												
138 Water Meter installation and replacement		C	3,100,000	0	3,100,000	3,100,000	0	0	0	0	0	0
140 Depots - Replacement of Lead service connections		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	0
141 Replacement of valves		C	360,000	0	360,000	360,000	0	0	0	0	0	0
142 Replacement of hydrants		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			8,660,000	0	8,660,000	8,660,000	0	0	0	0	0	0

## 2027 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>B BUILDINGS</b>												
* 155 Proposed Whitby Zone 5 Water Pumping Station and feedermain, Whitby	213	D	1,200,000	0	0	0	26,400	1,051,200	1,200	121,200	0	
* 184 Cannington New well and pumphouse with standby power, Brock	601	EA	1,000,000	0	500,000	500,000	31,900	318,500	2,000	147,600	0	
* 185 Cannington additional Water Storage Facility 1.4 ML to 3.0 ML, Brock	606	EA	500,000	0	283,000	283,000	4,800	190,000	200	22,000	0	
* 188 Water Storage Facilities condition assessments and rehabilitation works		D,C	150,000	0	0	0	0	0	0	0	150,000	
* 189 Wellhead protection at Regional well sites	800	D,C	800,000	0	800,000	800,000	0	0	0	0	0	
* 190 Water Supply Plant - Asset Management Remediation and Rehabilitation works		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	
Sub-total			8,650,000	0	6,583,000	6,583,000	63,100	1,559,700	3,400	290,800	150,000	
<b>C MACHINERY AND EQUIPMENT</b>												
* 193 Rosebank Water Pumping Station - Upgrades, Pickering		D	150,000	0	150,000	150,000	0	0	0	0	0	
* 201 Oshawa Water Supply Plant - Motor Control Center - replacement		D	240,000	0	240,000	240,000	0	0	0	0	0	
Sub-total			390,000	0	390,000	390,000	0	0	0	0	0	
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0	0	0	0	0	0	0	0	
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
* 219 Regional Water Supply Master Planning Study	701	D	800,000	0	0	0	21,600	702,400	3,200	72,800	0	
* 221 Asset Condition Assessments-Report		D	215,000	0	0	0	0	0	0	0	215,000	
* 222 Asset Condition Assessment/Investigation transmission pipe		D	200,000	0	0	0	0	0	0	0	200,000	
224 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	
225 Allowance for engineering studies		D	300,000	0	150,000	300,000	0	0	0	0	0	
* 226 Allowance for CTC Source Water Protection Plan		D	500,000	0	500,000	500,000	0	0	0	0	0	
227 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	
228 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	
229 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	
230 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	
231 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460,000	0	0	0	39,420	1,281,880	5,840	132,860	0	
232 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400,000	0	0	0	10,800	351,200	1,600	36,400	0	
233 Well interference works		D,C	1,000,000	0	0	0	0	1,000,000	0	0	0	
Sub-total			5,340,000	0	1,115,000	1,265,000	71,820	3,335,480	10,640	242,060	415,000	
<b>Total Cost Attribution</b>			<b>72,024,000</b>	<b>3,805,620</b>	<b>26,793,600</b>	<b>26,943,600</b>	<b>803,320</b>	<b>31,580,740</b>	<b>44,640</b>	<b>3,612,080</b>	<b>5,234,000</b>	

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2028 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund	
					Benefit to Existing	Total User Revenue						E
A	B	C	D	E	F	G	H	I				
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
22 Allowance for watermains in conjunction with Regional Roads		D,C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
Sub-total			2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
23A City of Pickering Road Program		D,C	275,000	0	275,000	275,000	0	0	0	0	0	0
23B Town of Ajax Road Program		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
23C Town of Whitby Road Program		D,C	620,000	0	620,000	620,000	0	0	0	0	0	0
23D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
23E Municipality of Clarington Road Program		D,C	370,000	0	370,000	370,000	0	0	0	0	0	0
23F Township of Scugog Road Program		D,C	130,000	0	130,000	130,000	0	0	0	0	0	0
23G Township of Uxbridge Road Program		D,C	270,000	0	270,000	270,000	0	0	0	0	0	0
23H Township of Brock Road Program		D,C	250,000	0	250,000	250,000	0	0	0	0	0	0
23i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			3,415,000	0	3,415,000	3,415,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
24 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0
<b>Betterments/Replacement</b>												
26 Water works to rectify identified system deficiencies independent of road programs in various locations		D,C	800,000	0	800,000	800,000	0	0	0	0	0	0
27 Rehabilitation of existing watermains in various locations		D,C	3,000,000	0	3,000,000	3,000,000	0	0	0	0	0	0
* 71 Replacement of wm on Beaupre Ave. from Lakefield Rd. to Tremblay St., Oshawa		D,C	420,000	0	0	0	0	0	0	0	0	420,000
* 99 Replacement of watermains in various locations		D,C	4,164,000	0	0	0	0	0	0	0	0	4,164,000
100 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			8,584,000	0	4,000,000	4,000,000	0	0	0	0	0	4,584,000
<b>System Expansion</b>												
* 132 Zone 1 FM on Baseline Rd. from Wharf St. to Mearns Ave., Bowmanville	306	D	500,000	0	0	0	11,000	438,000	500	50,500	0	0
Sub-total			500,000	0	0	0	11,000	438,000	500	50,500	0	0
<b>Other Linear Infrastructure</b>												
138 Water Meter installation and replacement		C	3,100,000	0	3,100,000	3,100,000	0	0	0	0	0	0
140 Depots - Replacement of Lead service connections		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	0
141 Replacement of valves		C	360,000	0	360,000	360,000	0	0	0	0	0	0
142 Replacement of hydrants		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			8,660,000	0	8,660,000	8,660,000	0	0	0	0	0	0
<b>B BUILDINGS</b>												
* 155 Proposed Whitby Zone 5 Water Pumping Station and feedermain, Whitby	213	C	11,100,000	0	0	0	244,200	9,723,600	11,100	1,121,100	0	0
* 173 Proposed Zone 2 Reservoir, Newcastle	314	C	5,200,000	0	738,400	738,400	97,760	3,910,400	4,160	449,280	0	0
* 174 Proposed Orono Water Storage Facility, Clarington	313	C	4,250,000	0	3,706,000	3,706,000	12,028	476,000	553	55,420	0	0
* 181 Sunderland New well and pumphouse with standby power, Brock	603	EA	1,500,000	0	750,000	750,000	47,850	477,750	3,000	221,400	0	0
* 182 Sunderland additional water storage from 1.4 ML to 3.0 ML, Brock	607	EA	500,000	0	283,000	283,000	4,800	190,000	200	22,000	0	0
* 187 Beaverton additional water storage 2 ML to 4.8 ML, Brock	605	D	500,000	0	258,500	258,500	5,300	211,500	24,450	250	0	0
* 188 Water Storage Facilities condition assessments and rehabilitation works		D,C	150,000	0	0	0	0	0	0	0	150,000	0
* 189 Wellhead protection at Regional well sites	800	D,C	800,000	0	800,000	800,000	0	0	0	0	0	0
* 190 Water Supply/ Plant - Asset Management Remediation and Rehabilitation works		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	0
Sub-total			29,000,000	0	11,535,900	11,535,900	411,938	14,989,250	43,463	1,869,450	150,000	0



## 2028 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund	
					Benefit to Existing	Total User Revenue						C
A	B	C	D	E	F	G	H	I				
<b>C MACHINERY AND EQUIPMENT</b>												
* 193 Rosebank Water Pumping Station - Upgrades, Pickering		C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
* 201 Oshawa Water Supply Plant - Motor Control Center - replacement		C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0	0
Sub-total			3,000,000	0	3,000,000	3,000,000	0	0	0	0	0	0
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0	0	0	0	0	0	0	0	0
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
* 221 Asset Condition Assessments-Report		D	300,000	0	0	0	0	0	0	0	0	300,000
* 222 Asset Condition Assessment/Investigation transmission pipe		D	200,000	0	0	0	0	0	0	0	0	200,000
224 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	0
225 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0	0
227 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	0
228 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	0
229 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
230 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
231 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460,000	0	0	0	39,420	1,281,880	5,840	132,860	0	0
232 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400,000	0	0	0	10,800	351,200	1,600	36,400	0	0
233 Well interference works		D,C	1,000,000	0	0	0	0	1,000,000	0	0	0	0
Sub-total			3,975,000	0	615,000	615,000	50,220	2,633,080	7,440	169,260	500,000	
<b>Total Cost Attribution</b>			<b>59,234,000</b>	<b>0</b>	<b>33,325,900</b>	<b>33,325,900</b>	<b>473,158</b>	<b>18,060,330</b>	<b>51,403</b>	<b>2,089,210</b>	<b>5,234,000</b>	

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2029 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
* 10 R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby		C	420,000	0	420,000	420,000	0	0	0	0	0	0
22 Allowance for water mains in conjunction with Regional Roads		D,C	1,600,000	0	1,600,000	1,600,000	0	0	0	0	0	0
Sub-total			2,020,000	0	2,020,000	2,020,000	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
23A City of Pickering Road Program		D,C	275,000	0	275,000	275,000	0	0	0	0	0	0
23B Town of Ajax Road Program		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
23C Town of Whitby Road Program		D,C	620,000	0	620,000	620,000	0	0	0	0	0	0
23D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
23E Municipality of Clarington Road Program		D,C	370,000	0	370,000	370,000	0	0	0	0	0	0
23F Township of Scugog Road Program		D,C	130,000	0	130,000	130,000	0	0	0	0	0	0
23G Township of Uxbridge Road Program		D,C	270,000	0	270,000	270,000	0	0	0	0	0	0
23H Township of Brock Road Program		D,C	250,000	0	250,000	250,000	0	0	0	0	0	0
23i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			3,415,000	0	3,415,000	3,415,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
* 24 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0
<b>Betterments/Replacement</b>												
Water works to rectify identified system deficiencies independent of road programs in various locations		D,C	800,000	0	800,000	800,000	0	0	0	0	0	0
27 Rehabilitation of existing water mains in various locations		D,C	3,000,000	0	3,000,000	3,000,000	0	0	0	0	0	0
48 Replacement of wm on Orchard Cr. from St. Lawrence St. to Orchard Cr., Whitby		D,C	315,000	0	0	0	0	0	0	0	0	315,000
49 Replacement of wm on Greenwood Cres. from McCullough Dr. N/L to S/L, Whitby		D,C	480,000	0	0	0	0	0	0	0	0	480,000
50 Replacement of wm on Byron St. from Willis Ave. to Starr Ave., Whitby		D,C	345,000	0	0	0	0	0	0	0	0	345,000
51 Replacement of wm on Bloor St. from Cubert St. to Oxford St., Oshawa		D,C	280,000	0	0	0	0	0	0	0	0	280,000
72 Replacement of wm on Wilson Rd. from Raleigh Ave. to Wentworth St., Oshawa		D,C	490,000	0	0	0	0	0	0	0	0	490,000
99 Replacement of water mains in various locations		D,C	2,674,000	0	0	0	0	0	0	0	0	2,674,000
100 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			8,584,000	0	4,000,000	4,000,000	0	0	0	0	0	4,584,000
<b>System Expansion</b>												
* 109 Zone 1 West Whitby FM from Brock St./Victoria St. to Rossland Rd., Whitby	242	D	600,000	0	30,600	30,600	12,540	498,600	540	57,720	0	0
Sub-total			600,000	0	30,600	30,600	12,540	498,600	540	57,720	0	0
<b>Other Linear Infrastructure</b>												
138 Water Meter installation and replacement		C	3,100,000	0	3,100,000	3,100,000	0	0	0	0	0	0
140 Depots - Replacement of Lead service connections		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	0
141 Replacement of valves		C	360,000	0	360,000	360,000	0	0	0	0	0	0
142 Replacement of hydrants		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			8,660,000	0	8,660,000	8,660,000	0	0	0	0	0	0

## 2029 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>B BUILDINGS</b>												
* 184 Cannington New well and pumphouse with standby power, Brock	601	D	500,000	0	250,000	250,000	15,950	159,250	1,000	73,800	0	
* 185 Cannington additional Water Storage Facility 1.4 ML to 3.0 ML, Brock	606	D	500,000	0	283,000	283,000	4,800	190,000	200	22,000	0	
* 188 Water Storage Facilities condition assessments and rehabilitation works		D,C	150,000	0	0	0	0	0	0	0	150,000	
* 189 Wellhead protection at Regional well sites	800	D,C	800,000	0	800,000	800,000	0	0	0	0	0	
* 190 Water Supply Plant - Asset Management Remediation and Rehabilitation works		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	
Sub-total			6,950,000	0	6,333,000	6,333,000	20,750	349,250	1,200	95,800	150,000	
<b>C MACHINERY AND EQUIPMENT</b>												
Sub-total			0	0	0	0	0	0	0	0	0	
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0	0	0	0	0	0	0	0	
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
* 221 Asset Condition Assessments-Report		D	300,000	0	0	0	0	0	0	0	300,000	
* 222 Asset Condition Assessment/Investigation transmission pipe		D	200,000	0	0	0	0	0	0	0	200,000	
223 Master Planning energy management		D	200,000	0	200,000	200,000	0	0	0	0	0	
224 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	
225 Allowance for engineering studies		D	300,000	0	300,000	300,000	0	0	0	0	0	
* 226 Allowance for CTC Source Water Protection Plan		D	500,000	0	500,000	500,000	0	0	0	0	0	
227 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	
228 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	
229 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	
230 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	
231 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460,000	0	0	0	39,420	1,281,880	5,840	132,860	0	
232 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400,000	0	0	0	10,800	351,200	1,600	36,400	0	
233 Well interference works		D,C	1,000,000	0	0	0	0	1,000,000	0	0	0	
Sub-total			4,825,000	0	1,465,000	1,465,000	50,220	2,633,080	7,440	169,260	500,000	
<b>Total Cost Attribution</b>			<b>35,154,000</b>	<b>0</b>	<b>26,023,600</b>	<b>26,023,600</b>	<b>83,510</b>	<b>3,480,930</b>	<b>9,180</b>	<b>322,780</b>	<b>5,234,000</b>	

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 5</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 26 (Thickson Rd.) from Wentworth St. to Canadian National Railway bridge, Whitby</p> <p>Project No.: R0710</p>
RELATED PROJECTS

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	25,000	0	0	0	0	0	25,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	190,000	0	0	0	0	190,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>25,000</b>	<b>190,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>215,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	25,000	190,000	0	0	0	0	215,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>25,000</b>	<b>190,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>215,000</b>

Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 7</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 28 (Rossland Rd.) from Ritson Rd. to Harmony Rd., Oshawa</p> <p>Project No.: R1811</p>
RELATED PROJECTS
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	200,000	0	0	0	0	200,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	0	2,000,000	0	2,000,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	200,000	0	0	2,000,000	0	2,200,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	200,000	0	0	2,000,000	0	2,200,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	200,000	0	0	2,000,000	0	2,200,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							


NEED/EXPLANATION OF PROJECT

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 8</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 29 (Liverpool Ave.) from Kingston Rd. (Highway No. 2) to Highway 401, Pickering</p> <p>Project No.: R1817</p>
<b>RELATED PROJECTS</b>
<p><i>City of Pickering</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	60,000	0	0	0	0	60,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	200,000	0	0	200,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>260,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	60,000	0	200,000	0	0	260,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>60,000</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>0</b>	<b>260,000</b>

Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.

<b>NEED/EXPLANATION OF PROJECT</b>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 9</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 31 (Westney Rd.) from Finley Rd. to Harwood Ave., Ajax</p> <p>Project No.: R1915</p>
RELATED PROJECTS
<p><i>Town of Ajax</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	200,000	0	0	0		200,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	1,000,000	0	0	1,000,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>1,200,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	200,000	0	1,000,000	0	0	1,200,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>1,200,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 14</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 53 (Stevenson Rd.) from Highway 401 to Bond St., Oshawa</p> <p>Project No.: R1819</p>
RELATED PROJECTS
<p>2020 Sanitary Sewerage Capital Budget Item No.: 7</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	150,000	0	0	0	0	150,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	1,200,000	0	0	1,200,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>1,200,000</b>	<b>0</b>	<b>0</b>	<b>1,350,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	150,000	0	1,200,000	0	0	1,350,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>150,000</b>	<b>0</b>	<b>1,200,000</b>	<b>0</b>	<b>0</b>	<b>1,350,000</b>
<p><small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small></p>							

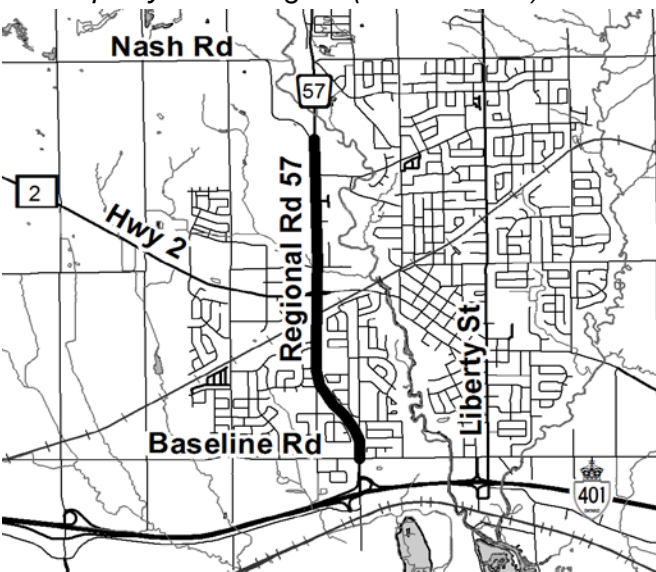
NEED/EXPLANATION OF PROJECT



<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p>ITEM NO. 15</p> <p>REGIONAL ROAD PROGRAM</p> <p>R.R. 53 (Stevenson Rd.) from Bond St. to Rossland Rd., Oshawa</p> <p>Project No.: R1820</p>
<b>RELATED PROJECTS</b>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	150,000	150,000	0	0	0	0	300,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	0	0	3,300,000	3,300,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	150,000	150,000	0	0	0	3,300,000	3,600,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	150,000	150,000	0	0	0	3,300,000	3,600,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	150,000	150,000	0	0	0	3,300,000	3,600,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 17</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 57 (Bowmanville Ave.) from Baseline Rd. to Nash Rd., Bowmanville</p> <p>Project No.: R1721</p>
<b>RELATED PROJECTS</b>
<p>2020 Sanitary Sewerage Capital Budget Item No.: 8</p>
<p><i>Municipality of Clarington (Bowmanville)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	25,000	60,000	0	0	0	0	85,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	325,000	170,000	0	0	0	495,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>25,000</b>	<b>385,000</b>	<b>170,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>580,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	25,000	385,000	170,000	0	0	0	580,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>25,000</b>	<b>385,000</b>	<b>170,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>580,000</b>
<p><small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small></p>							

NEED/EXPLANATION OF PROJECT

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 20</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R,R. 59 (Gibb St.)/Olive Ave. extension from Drew St. to Ritson Rd., Oshawa</p> <p>Project No.: R0116</p>
<b>RELATED PROJECTS</b>
<p>2020 Sanitary Sewerage Capital Budget Item No.: 10</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	100,000	0	0	0	0	100,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	0	0	350,000	350,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>350,000</b>	<b>450,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	100,000	0	0	0	350,000	450,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>350,000</b>	<b>450,000</b>
<p><small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small></p>							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 21</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 60 (Wentworth St.) from Cedar St. to Farewell St., Oshawa Rehabilitation</p> <p>Project No.: O1704</p>
RELATED PROJECTS

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	150,000	100,000	0	0	0	0	250,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	1,300,000	0	0	0	0	1,300,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	150,000	1,400,000	0	0	0	0	1,550,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	150,000	1,400,000	0	0	0	0	1,550,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	150,000	1,400,000	0	0	0	0	1,550,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																		
<p><b>ITEM NO. 23A</b></p> <p><u>Area Municipality Road Programs</u> CITY OF PICKERING ROAD PROGRAM (1 Project)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: P2099</p> <p>2020 Sanitary Sewerage Capital Budget Item No. 12A</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL												
			2021	2022	2023	2024													
	<p><b>EXPENDITURES:</b></p>																		
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	LAND ACQUISITION																		
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	<p><b>TOTAL EXPENDITURES</b></p>																		
	<p><b>ATTRIBUTION:</b></p>																		
	SUBSIDY/GRANTS																		
	RESIDENTIAL DEVELOPMENT CHARGES																		
	COMMERCIAL DEVELOPMENT CHARGES*																		
	USER REVENUES																		
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NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient water mains and/or construction of new works in conjunction with road reconstruction proposed by the City of Pickering.</p>

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p><b>ITEM NO. 23B</b></p> <p><u>Area Municipality Road Programs</u> TOWN OF AJAX ROAD PROGRAM (2 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: A2099</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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<p>2020 Sanitary Sewerage Capital Budget Item No. 12B</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>0</td> <td>120,000</td> <td>35,000</td> <td>35,000</td> <td>210,000</td> <td>35,000</td> <td>435,000</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td>0</td> <td>580,000</td> <td>165,000</td> <td>165,000</td> <td>1,440,000</td> <td>165,000</td> <td>2,515,000</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td><b>0</b></td> <td><b>700,000</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>1,650,000</b></td> <td><b>200,000</b></td> <td><b>2,950,000</b></td> </tr> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>USER REVENUES</td> <td>0</td> <td>700,000</td> <td>200,000</td> <td>200,000</td> <td>1,650,000</td> <td>200,000</td> <td>2,950,000</td> </tr> <tr> <td>DEBENTURES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td><b>0</b></td> <td><b>700,000</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>1,650,000</b></td> <td><b>200,000</b></td> <td><b>2,950,000</b></td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING	0	120,000	35,000	35,000	210,000	35,000	435,000	LAND ACQUISITION							0	UTILITY RELOCATION							0	CONSTRUCTION	0	580,000	165,000	165,000	1,440,000	165,000	2,515,000	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>700,000</b>	<b>200,000</b>	<b>200,000</b>	<b>1,650,000</b>	<b>200,000</b>	<b>2,950,000</b>	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES							0	COMMERCIAL DEVELOPMENT CHARGES*							0	USER REVENUES	0	700,000	200,000	200,000	1,650,000	200,000	2,950,000	DEBENTURES							0	OTHER							0	<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>700,000</b>	<b>200,000</b>	<b>200,000</b>	<b>1,650,000</b>	<b>200,000</b>	<b>2,950,000</b>
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NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient water mains and/or construction of new works in conjunction with road reconstruction proposed by the Town of Ajax</p>

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p><b>ITEM NO. 23C</b></p> <p><u>Area Municipality Road Programs</u> TOWN OF WHITBY ROAD PROGRAM (0 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: W2099</p>		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				
2020 Sanitary Sewerage Capital Budget Item No. 12C				2021	2022	2023	2024	TOTAL
<p>No new works proposed in 2020</p>	<b>EXPENDITURES:</b>							
	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING	0	60,000	116,000	116,000	116,000	116,000	524,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	0	504,000	504,000	504,000	504,000	2,016,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	60,000	620,000	620,000	620,000	620,000	2,540,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
	USER REVENUES	0	60,000	620,000	620,000	620,000	620,000	2,540,000
DEBENTURES							0	
OTHER							0	
<b>TOTAL ATTRIBUTION</b>	0	60,000	620,000	620,000	620,000	620,000	2,540,000	
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>								

NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient watermain and/or construction of new works in conjunction with road reconstruction proposed by the Town of Whitby.</p>

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p><b>ITEM NO. 23D</b></p> <p><u>Area Municipality Road Programs</u> CITY OF OSHAWA ROAD PROGRAM (0 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.:</p>		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
<p>2020 Sanitary Sewerage Capital Budget Item No. 12D</p>	<b>EXPENDITURES:</b>			2021	2022	2023	2024	
<p>No works proposed in 2020</p>	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING	0	0	152,000	152,000	152,000	152,000	608,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	0	948,000	948,000	948,000	948,000	3,792,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	0	1,100,000	1,100,000	1,100,000	1,100,000	4,400,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0	
COMMERCIAL DEVELOPMENT CHARGES*							0	
USER REVENUES	0	0	1,100,000	1,100,000	1,100,000	1,100,000	4,400,000	
DEBENTURES							0	
OTHER							0	
<b>TOTAL ATTRIBUTION</b>	0	0	1,100,000	1,100,000	1,100,000	1,100,000	4,400,000	
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>								

NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient water mains and/or construction of new works in conjunction with road reconstruction proposed by the City of Oshawa.</p>



PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p>ITEM NO. 23E</p> <p><b>Area Municipality Road Programs</b></p> <p>MUNICIPALITY OF CLARINGTON ROAD PROGRAM (1 Project)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: C2099</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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NEED/EXPLANATION OF PROJECT
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<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>0</b>	<b>270,000</b>	<b>270,000</b>	<b>270,000</b>	<b>270,000</b>	<b>1,080,000</b>																																																																																																																																								
<p>No Works proposed in 2020</p>	<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>																																																																																																																																														

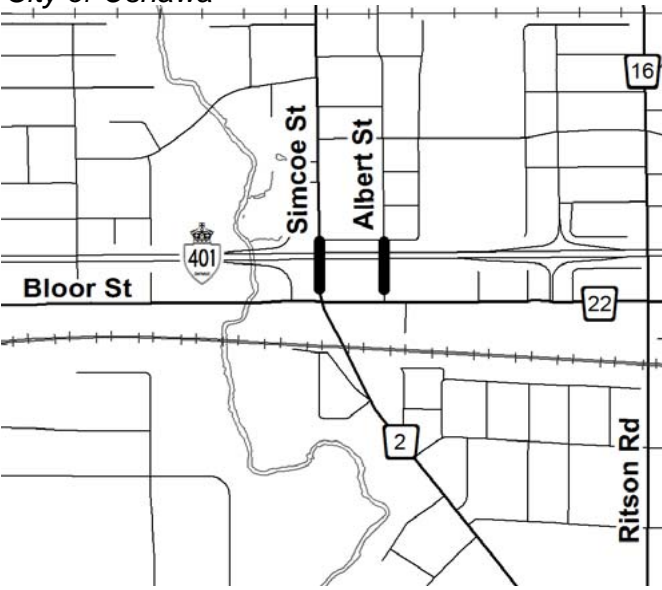
NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient water mains and/or construction of new works in conjunction with road reconstruction proposed by the Township of Uxbridge.</p>

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p><b>ITEM NO. 23H</b></p> <p><b>Area Municipality Road Programs</b></p> <p>TOWNSHIP OF BROCK ROAD PROGRAM (0 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: -</p>		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				
2020 Sanitary Sewerage Capital Budget Item No. 12H				2021	2022	2023	2024	TOTAL
No Works proposed in 2020	<b>EXPENDITURES:</b>							
	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING	0	0	38,000	38,000	38,000	38,000	152,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	0	212,000	212,000	212,000	212,000	848,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	0	250,000	250,000	250,000	250,000	1,000,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	0	250,000	250,000	250,000	250,000	1,000,000	
DEBENTURES							0	
OTHER							0	
<b>TOTAL ATTRIBUTION</b>	0	0	250,000	250,000	250,000	250,000	1,000,000	
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.								

NEED/EXPLANATION OF PROJECT
Replacement of deficient water mains and/or construction of new works in conjunction with road reconstruction proposed by the Township of Brock.

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p>ITEM NO. 23i</p> <p><b>Area Municipality Road Programs</b></p> <p>ALLOWANCE FOR UNKNOWN WATER SUPPLY REQUIREMENTS IN CONJUNCTION WITH AREA MUNICIPALITY ROAD PROGRAMS IN VARIOUS LOCATIONS</p> <p>Refer to Construction of Municipal Services summary for list of streets</p> <p>Project No.: M2003</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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<p>2020 Sanitary Sewerage Capital Budget Item No. 12i</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>0</td> <td>60,000</td> <td>25,000</td> <td>25,000</td> <td>25,000</td> <td>25,000</td> <td>160,000</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td>0</td> <td>240,000</td> <td>175,000</td> <td>175,000</td> <td>175,000</td> <td>175,000</td> <td>940,000</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td><b>0</b></td> <td><b>300,000</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>1,100,000</b></td> </tr> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>USER REVENUES</td> <td>0</td> <td>300,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>1,100,000</td> </tr> <tr> <td>DEBENTURES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td><b>0</b></td> <td><b>300,000</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>1,100,000</b></td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING	0	60,000	25,000	25,000	25,000	25,000	160,000	LAND ACQUISITION							0	UTILITY RELOCATION							0	CONSTRUCTION	0	240,000	175,000	175,000	175,000	175,000	940,000	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>300,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>1,100,000</b>	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES							0	COMMERCIAL DEVELOPMENT CHARGES*							0	USER REVENUES	0	300,000	200,000	200,000	200,000	200,000	1,100,000	DEBENTURES							0	OTHER							0	<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>300,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>1,100,000</b>
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NEED/EXPLANATION OF PROJECT
<p>This allowance is to provide for unanticipated watermain works in conjunction with area municipality road programs in various locations (Items 23A to 23H)</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 25</b></p> <p><u>MTO &amp; GO TRANSIT PROJECTS:</u></p> <p>Watermain replacement in conjunction with the MTO's bridge work at Simcoe St. and Albert St., Oshawa</p> <p>Project No.: D1801</p>
<p align="center"><b>RELATED PROJECTS</b></p> <p>2018 Water Supply Capital Budget Item No.: 20 2019 Water Supply Capital Budget Item No.: 20</p> <p><i>City of Oshawa</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	300,000	0	0	0	0	0	300,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	2,300,000	0	0	0	0	2,300,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	300,000	2,300,000	0	0	0	0	2,600,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	300,000	2,300,000	0	0	0	0	2,600,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	300,000	2,300,000	0	0	0	0	2,600,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 26</p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Water works to rectify identified system deficiencies independent of road programs in various locations</p> <p>Project No.: M2099</p>
<b>RELATED PROJECTS</b>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	150,000	150,000	150,000	150,000	150,000	750,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	650,000	650,000	650,000	650,000	650,000	3,250,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	800,000	800,000	800,000	800,000	800,000	4,000,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	800,000	800,000	800,000	800,000	800,000	4,000,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	800,000	800,000	800,000	800,000	800,000	4,000,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p>ITEM NO. 27</p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Rehabilitation of existing watermains in various locations</p> <p>Project No.: D2012</p>								
<b>RELATED PROJECTS</b>								
				Four Year Forecast				
		Budget Prior to 2020	2020 CAPITAL BUDGET	2021	2022	2023	2024	TOTAL
<b>EXPENDITURES:</b>								
ENVIRONMENTAL ASSESSMENT								0
ENGINEERING		0	200,000	250,000	250,000	250,000	250,000	1,200,000
LAND ACQUISITION								0
UTILITY RELOCATION								0
CONSTRUCTION		0	2,600,000	2,750,000	2,750,000	2,750,000	2,750,000	13,600,000
CONTINGENCY								0
OTHER								0
<b>TOTAL EXPENDITURES</b>		0	2,800,000	3,000,000	3,000,000	3,000,000	3,000,000	14,800,000
<b>ATTRIBUTION:</b>								
SUBSIDY/GRANTS								0
RESIDENTIAL DEVELOPMENT CHARGES								0
COMMERCIAL DEVELOPMENT CHARGES*								0
USER REVENUES		0	2,800,000	3,000,000	3,000,000	3,000,000	3,000,000	14,800,000
DEBENTURES								0
OTHER								0
<b>TOTAL ATTRIBUTION</b>			2,800,000	3,000,000	3,000,000	3,000,000	3,000,000	14,800,000
<p><small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small></p>								

NEED/EXPLANATION OF PROJECT
<p>Rehabilitation of watermains - lining in various locations.</p>



PROJECT LOCATION & DESCRIPTION
<p>ITEM NO.: 28</p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Kingston Rd. (Highway No. 2) from 240 m east of Delta Blvd. to Merritton Dr. &amp; Dixie Rd. to Liverpool Rd., Pickering                      Project No.: D1848</p>
<p><b>RELATED PROJECTS</b></p> <p>2019 Water Supply Capital Budget No.: 23</p>

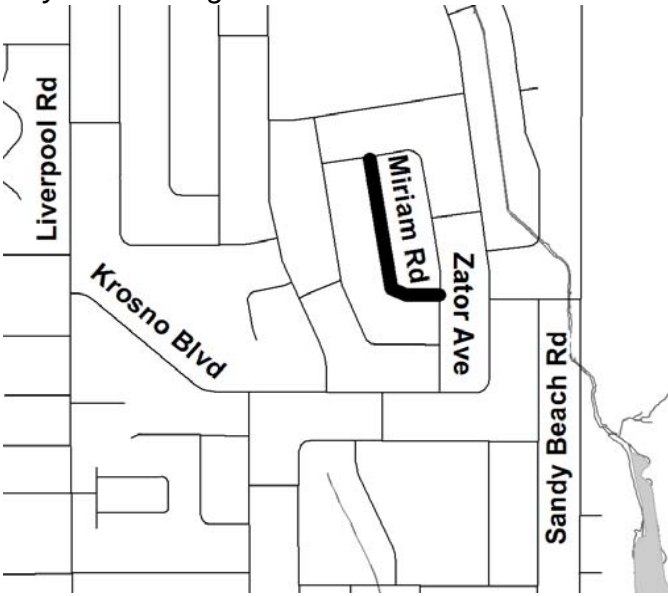
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	230,000	0	0	0	0	0	230,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	780,024	710,000	0	0	0	0	1,490,024
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>1,010,024</b>	<b>710,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,720,024</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	1,010,024	710,000	0	0	0	0	1,720,024
DEBENTURES							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>1,010,024</b>	<b>710,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,720,024</b>
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

NEED/EXPLANATION OF PROJECT
<p>Will be completed in conjunction with the Bus Rapid Transit (BRT).                      Watermain has reached the end of its useful service life.                      Phase 1 Delta Blvd. to Merritton Dr.                      Phase 2 Dixie Rd. to Liverpool Rd.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO.: 29</p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Zator Ave. from Bem Ave. to Kronso Blvd., Pickering</p> <p>Project No.: P1901</p>
RELATED PROJECTS
<p>City of Pickering</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	130,000	0	0	0	0	130,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	847,000	0	0	0	0	847,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>977,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>977,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND		977,000	0	0	0	0	977,000
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>977,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>977,000</b>
<small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p>ITEM NO.: 30</p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Miriam Rd. from Zator Ave. S/L to N/L, Pickering</p> <p>Project No.: P1902</p>
<b>RELATED PROJECTS</b>
<p><i>City of Pickering</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	60,000	0	0	0	0	60,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	470,000	0	0	0	0	470,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>530,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>530,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND		530,000	0	0	0	0	530,000
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>530,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>530,000</b>
<small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small>							

<b>NEED/EXPLANATION OF PROJECT</b>
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO.: 35</p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Krosno Blvd. from Liverpool Rd. to Fanshaw Place, Pickering</p> <p>Project No.: P2001</p>
RELATED PROJECTS

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	100,000	0	0	0	0	100,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	1,015,000	0	0	0	1,015,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>100,000</b>	<b>1,015,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,115,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	0	100,000	1,015,000	0	0	0	1,115,000
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>100,000</b>	<b>1,015,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,115,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 36</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Pickering Beach Rd. from Foord Rd. to Hewitt Cres., Ajax</p> <p>Project No.: A1906</p>
<p><b>RELATED PROJECTS</b></p> <p>2019 Water Supply Capital Budget No.: 29</p>
<p><i>Town of Ajax</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	80,000	0	0	0	0	0	80,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	40,000	470,000	0	0	0	0	510,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	120,000	470,000	0	0	0	0	590,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	120,000	470,000	0	0	0	0	590,000
DEBENTURES							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	120,000	470,000	0	0	0	0	590,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 37</p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Watermain extension on Achilles Rd. from Salem Rd. to 100 m west of Salem Rd., Ajax</p> <p>Project No.: A1903</p>
RELATED PROJECTS
<p>2019 Water Supply Capital Budget No.: 30</p>
<p>Town of Ajax</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	50,000	0	0	0	0	0	50,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	160,000	0	0	0	0	160,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>50,000</b>	<b>160,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>210,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	50,000	160,000	0	0	0	0	210,000
DEBENTURES							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>50,000</b>	<b>160,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>210,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Watermain extension required to provide looping and system security</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 38</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of a watermain on Cameron St. from Elizabeth St. to Windsor Dr., Ajax</p> <p>Project No.: A1801</p>
<p align="center"><b>RELATED PROJECTS</b></p> <p>2018 Water Supply Capital Budget No.: 27</p>
<p><i>Town of Ajax</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	70,000	0	0	0	0	0	70,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	330,000	50,000	0	0	0	0	380,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	400,000	50,000	0	0	0	0	450,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	400,000	50,000	0	0	0	0	450,000
<b>TOTAL ATTRIBUTION</b>	400,000	50,000	0	0	0	0	450,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 39</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of a watermain on Windsor Dr. from Old Kingston Rd. to Cameron St., Ajax</p> <p>Project No.: A1802</p>
<p align="center"><b>RELATED PROJECTS</b></p> <p>2018 Water Supply Capital Budget No.: 28 2019 Water Supply Capital Budget No.: 34</p>
<p><i>Town of Ajax</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	75,000	0	0	0	0	0	75,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	375,000	60,000	0	0	0	0	435,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	450,000	60,000	0	0	0	0	510,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	450,000	60,000	0	0	0	0	510,000
<b>TOTAL ATTRIBUTION</b>	450,000	60,000	0	0	0	0	510,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>



PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 40</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of a watermain on Linton Ave. from Kearney Dr. S. from Old Kingston Rd., Ajax</p> <p>Project No.: A1904</p>
RELATED PROJECTS
<p>2019 Water Supply Capital Budget No.: 31</p>
<p><i>Town of Ajax</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	40,000	15,000	0	0	0	0	55,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	410,000	0	0	0	0	410,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	40,000	425,000	0	0	0	0	465,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	40,000	425,000	0	0	0	0	465,000
<b>TOTAL ATTRIBUTION</b>	40,000	425,000	0	0	0	0	465,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 41</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of a watermain on Sherwood Rd. W. from Windsor Dr. to dead-end, Ajax</p> <p>Project No.: A1905</p>
<p align="center"><b>RELATED PROJECTS</b></p> <p>2019 Water Supply Capital Budget No.: 32</p>
<p>Town of Ajax</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	175,000	0	0	0	0	0	175,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	180,000	670,000	0	0	0	0	850,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	355,000	670,000	0	0	0	0	1,025,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	355,000	670,000	0	0	0	0	1,025,000
<b>TOTAL ATTRIBUTION</b>	355,000	670,000	0	0	0	0	1,025,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 52</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of the watermain on R.R. 22 (Bloor St.) from Wilson Rd. to Holland St., Oshawa</p> <p>Project No.: O2001</p>
RELATED PROJECTS
<p><i>City of Oshawa</i></p>


BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	60,000	0	0	0	0	60,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	340,000	0	0	0	0	340,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	400,000	0	0	0	0	400,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	0	400,000	0	0	0	0	400,000
<b>TOTAL ATTRIBUTION</b>	0	400,000	0	0	0	0	400,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 53</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of the watermain on Holland St. from Veterans Rd. to Bloor St., Oshawa</p> <p>Project No.: O2002</p>
<p align="center"><b>RELATED PROJECTS</b></p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	40,000	0	0	0	0	40,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	220,000	0	0	0	0	220,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	260,000	0	0	0	0	260,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND		260,000	0	0	0	0	260,000
<b>TOTAL ATTRIBUTION</b>	0	260,000	0	0	0	0	260,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 58</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of the watermain on Highland Ave. from Gliddon Ave. to Athol St., Oshawa</p> <p>Project No.: O1508</p>
<p><b>RELATED PROJECTS</b></p> <p>2015 Water Supply Capital Budget Item No.: 59 2020 Sanitary Sewerage Capital Budget Item No. 21</p> <p><i>City of Oshawa</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	80,000	0	0	0	0	0	80,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	320,000	90,000	0	0	0	0	410,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	400,000	90,000	0	0	0	0	490,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	400,000	90,000	0	0	0	0	490,000
<b>TOTAL ATTRIBUTION</b>	400,000	90,000	0	0	0	0	490,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 59</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Watermain replacement on Harmony Rd. N. from Adelaide Ave. to 200 m north of Adelaide Ave., Oshawa</p> <p>Project No.: O1901</p>
<p align="center"><b>RELATED PROJECTS</b></p> <p>2019 Water Supply Capital Budget No.: 43</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	50,000	0	0	0	0	0	50,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	150,000	110,000	0	0	0	0	260,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	200,000	110,000	0	0	0	0	310,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	200,000	110,000	0	0	0	0	310,000
DEBENTURES							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	200,000	110,000	0	0	0	0	310,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 63</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of a watermain on Olive Ave. from Simcoe St. S. to Drew St., Oshawa</p> <p>Project No.: O1903</p>
<p align="center"><b>RELATED PROJECTS</b></p> <p>2019 Sanitary Sewerage Capital Budget Item No.: 30 2019 Water Supply Capital Budget Item No.: 57</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	250,000	0	0	0	0	0	250,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	1,100,000	0	0	0	0	1,100,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	250,000	1,100,000	0	0	0	0	1,350,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	250,000	1,100,000	0	0	0	0	1,350,000
DEBENTURES							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	250,000	1,100,000	0	0	0	0	1,350,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>The watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 65</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Grassmere Ave. from west limits to Ritson Rd. S., Oshawa</p> <p>Project No.: O1905</p>
RELATED PROJECTS
<p>2019 Water Supply Capital Budget Item No.: 60</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	100,000	0	0	0	0	0	100,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	545,000	130,000	0	0	0	0	675,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	645,000	130,000	0	0	0	0	775,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	645,000	130,000	0	0	0	0	775,000
DEBENTURES							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	645,000	130,000	0	0	0	0	775,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

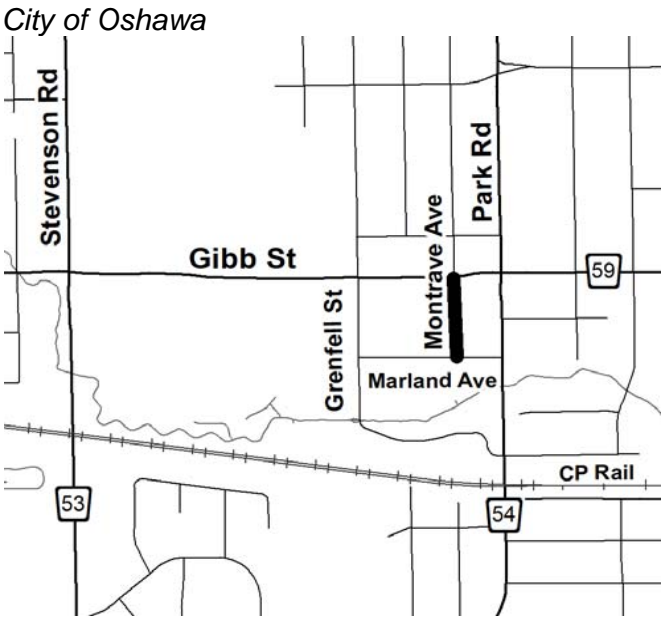
NEED/EXPLANATION OF PROJECT
<p>The watermain has reached the end of its useful service life.</p>



PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 66</p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Marland Ave. from Grenfell St. to Park Rd. S., Oshawa</p> <p>Project No.: O1907</p>
<p><b>RELATED PROJECTS</b></p> <p>2019 Water Supply Capital Budget Item No.: 65</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	60,000	0	0	0	0	0	60,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	340,000	130,000	0	0	0	0	470,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	400,000	130,000	0	0	0	0	530,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	400,000	130,000	0	0	0	0	530,000
DEBENTURES							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	400,000	130,000	0	0	0	0	530,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>The watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 67</p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Montrave Ave. from Marland Ave. to Gibb St., Oshawa</p> <p>Project No.: O2003</p>
RELATED PROJECTS
<p>City of Oshawa</p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	50,000	0	0	0	0	50,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	315,000	0	0	0	0	315,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	365,000	0	0	0	0	365,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	365,000	0	0	0	0	365,000
DEBENTURES							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	0	365,000	0	0	0	0	365,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>The watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 68</p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Ritson Rd. S. from Kawartha Ave. to Grassmere Ct., Oshawa</p> <p>Project No.: Q2004</p>
RELATED PROJECTS

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	150,000	0	0	0	0	150,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	750,000	0	0	750,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	150,000	0	750,000	0	0	900,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	0	150,000	0	750,000	0	0	900,000
<b>TOTAL ATTRIBUTION</b>	0	150,000	0	750,000	0	0	900,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 75</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on North St. from Wilmot St. to Concession Rd. 3, Newcastle</p> <p>Project No.: C1601</p>
<p align="center"><b>RELATED PROJECTS</b></p> <p>2016 Water Supply Capital Budget Item No.: 59 2017 Water Supply Capital Budget Item No.: 63</p>
<p><i>Municipality of Clarington (Newcastle)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	70,000	300,000	0	0	0	0	370,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	860,000	0	1,310,000	0	0	0	2,170,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	930,000	300,000	1,310,000	0	0	0	2,540,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	262,800	1,147,560	0	0	0	1,410,360
COMMERCIAL DEVELOPMENT CHARGES*	0	6,600	28,820	0	0	0	35,420
USER REVENUES	930,000	30,600	133,620	0	0	0	1,094,220
DEBENTURES							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	930,000	300,000	1,310,000	0	0	0	2,540,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Construction of watermain to service existing and new development. Timing of construction dependent on rate development</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 79</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Bigelow St. from 30 m north of Kellett St. to 100 m north of Kellett St., Port Perry</p> <p>Project No.: S1902</p>
RELATED PROJECTS
<p>2019 Water Supply Capital Budget Item No.: 73</p>
<p><i>Township of Scugog (Port Perry)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	25,000	0	0	0	0	0	25,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	50,000	100,000	0	0	0	0	150,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	75,000	100,000	0	0	0	0	175,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	75,000	100,000	0	0	0	0	175,000
<b>TOTAL ATTRIBUTION</b>	75,000	100,000	0	0	0	0	175,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 80</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Kellett St./Beech St. from Bigelow St. to 100 east of Kent St., Port Perry</p> <p>Project No.: S1903</p>
RELATED PROJECTS
<p><i>Township of Scugog (Port Perry)</i></p>

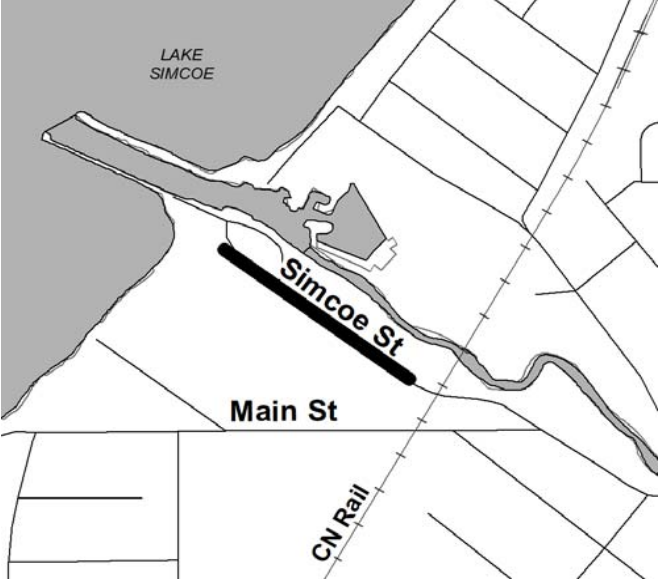
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	80,000	0	0	0	0	80,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	465,000	0	0	0	0	465,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	545,000	0	0	0	0	545,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	0	545,000	0	0	0	0	545,000
<b>TOTAL ATTRIBUTION</b>	0	545,000	0	0	0	0	545,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 95</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Simcoe St. from Canadian National Railway to John St., Beaverton</p> <p>Project No.: K2001</p>
RELATED PROJECTS
<p><i>Township of Brock (Beaverton)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	100,000	0	0	0	0	100,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	725,000	0	0	725,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	100,000	0	725,000	0	0	825,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	0	100,000	0	725,000	0	0	825,000
<b>TOTAL ATTRIBUTION</b>	0	100,000	0	725,000	0	0	825,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 96</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of watermain on Simcoe St. from Beaverton Water Supply Plant to 60 m west of Canadian National Railway, Beaverton</p> <p>Project No.: K2002</p>
<p><b>RELATED PROJECTS</b></p>
<p><i>Township of Brock (Beaverton)</i></p>  <p>The map shows the project location in Beaverton, Ontario. It features Lake Simcoe to the north, Simcoe St running diagonally from the northwest to the southeast, Main St running horizontally below Simcoe St, and the CN Rail line running diagonally from the southwest to the southeast. The project area is highlighted in black along Simcoe St.</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	100,000	0	0	0	0	100,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	722,000	0	0	722,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	100,000	0	722,000	0	0	822,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	0	100,000	0	722,000	0	0	822,000
<b>TOTAL ATTRIBUTION</b>	0	100,000	0	722,000	0	0	822,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the watermain has reached the end of its useful service life.</p>



PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 101</b></p> <p><u>CONSTRUCTION OF SERVICES IN UNSERVICED AREAS</u> <u>IN RESPONSE TO REQUESTS OR PETITIONS</u></p> <p>Watermain on Range Rd. from Holie Dr. to Lakeridge Rd., Lakeridge Rd. from Range Rd. to Ontoro Blvd., Ontoro Blvd. from west limit to Lake Range Rd., Ajax Project No.: A1805</p>
<p><b>RELATED PROJECTS</b></p>
<p>Town of Ajax</p> <p>Holie Dr</p> <p>Range Rd</p> <p>Lake Ridge Rd</p> <p>Ontoro Blvd</p> <p>LAKE ONTARIO</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	20,000	250,000	0	0	0	0	270,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	1,530,000	0	0	0	0	1,530,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	20,000	1,780,000	0	0	0	0	1,800,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS	0	1,428,000	0	0	0	0	1,428,000
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	20,000	352,000	0	0	0	0	372,000
DEBENTURES							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	20,000	1,780,000	0	0	0	0	1,800,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Construction of watermain in response to a petition.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 102</b></p> <p><u>CONSTRUCTION OF SERVICES IN UNSERVICED AREAS</u> <u>IN RESPONSE TO REQUESTS OR PETITIONS</u></p> <p>Watermain on Fielding Crt. from Westney Rd. to east limits, Ajax</p> <p>Project No.: A1907</p>
<b>RELATED PROJECTS</b>
<p>Town of Ajax</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	24,000	60,000	0	0	0	0	84,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	540,000	0	0	0	0	540,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	24,000	600,000	0	0	0	0	624,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS	0	436,000	0	0	0	0	436,000
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	24,000	164,000	0	0	0	0	188,000
DEBENTURES							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	24,000	600,000	0	0	0	0	624,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Construction of watermains in response to a petition.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 110</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Zone 1 feedermain on Bloor St. from Ritson Rd. to Wilson Rd., Oshawa (including new valve chamber east of Albert St.) Phase 3 Project No.: O1709</p>
<p><b>RELATED PROJECTS</b></p> <p>2018 Water Supply Capital Budget Item No. 77 2019 Water Supply Capital Budget Item No. 112</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	900,000	0	0	0	0	0	900,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	5,100,000	1,500,000	0	0	0	0	6,600,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	6,000,000	1,500,000	0	0	0	0	7,500,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	5,257,000	1,314,000	0	0	0	0	6,571,000
COMMERCIAL DEVELOPMENT CHARGES*	134,500	33,000	0	0	0	0	167,500
USER REVENUES	608,500	153,000	0	0	0	0	761,500
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	6,000,000	1,500,000	0	0	0	0	7,500,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Project to be completed in phases: Phase 1: Albert St. to Ritson Rd. - Completed Phase 2: Stevenson Rd. to Albert St. - Completed Phase 3: Ritson Rd. Wilson Rd. - Detailed design initiated</p>

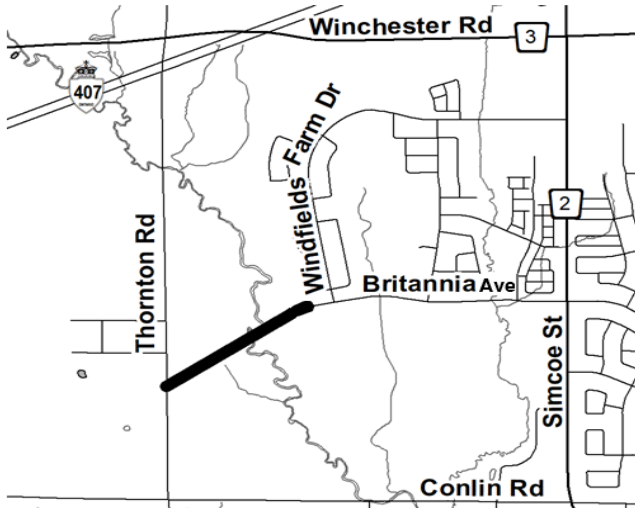
PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 111</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Zone 3 feedermain on Conlin Rd. from Anderson St. to Garrard Rd., Whitby</p> <p>Project No.: D1804</p>
<p align="center"><b>RELATED PROJECTS</b></p> <p>2018 Water Supply Capital Budget Item No. 69</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	500,000	150,000	0	0	0	0	650,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	4,000,000	0	0	0	0	4,000,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	500,000	4,150,000	0	0	0	0	4,650,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	439,000	3,635,400	0	0	0	0	4,074,400
COMMERCIAL DEVELOPMENT CHARGES*	13,500	91,300	0	0	0	0	104,800
USER REVENUES	47,500	423,300	0	0	0	0	470,800
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	500,000	4,150,000	0	0	0	0	4,650,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Construction of feedermain to service new development. Timing of construction dependent on rate of development.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 118</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Watermain on Britannia Ave. from Thornton Rd. to Windfields Farm Dr., Oshawa</p> <p>Project No.: D1614</p>
RELATED PROJECTS
<p>2016 Water Supply Capital Budget Item No. 80</p>
<p><i>City of Oshawa</i></p> 

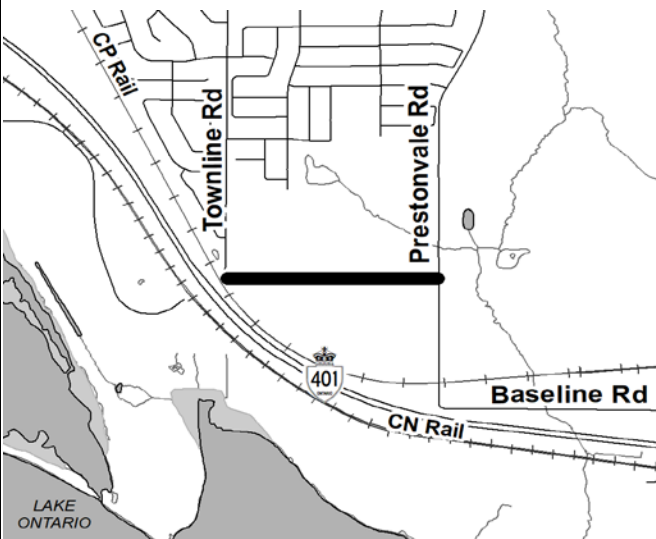
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	80,000	260,000	0	0	0	0	340,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	1,620,000	0	0	0	1,620,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>80,000</b>	<b>260,000</b>	<b>1,620,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,960,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	70,240	227,760	1,419,120	0	0	0	1,717,120
COMMERCIAL DEVELOPMENT CHARGES*	2,160	5,720	35,640	0	0	0	43,520
USER REVENUES	7,600	26,520	165,240	0	0	0	199,360
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>80,000</b>	<b>260,000</b>	<b>1,620,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,960,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Construction of watermain to service new development. Timing of construction dependent on rate of development.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO.: 123</p> <p>SYSTEM EXPANSION</p> <p>Zone 4 feedermain from proposed Zone 4 Pumping Station at Harmony Rd. Reservoir to proposed Oshawa Zone 4 Reservoir, Oshawa</p> <p>Project No.: D1908</p>
RELATED PROJECTS
<p>2019 Water Supply Capital Budget Item No. 120</p>
<p>City of Oshawa</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	1,000,000	1,200,000	0	0	0	0	2,200,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	14,300,000	0	0	0	14,300,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	1,000,000	1,200,000	14,300,000	0	0	0	16,500,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	876,000	1,051,200	12,526,800	0	0	0	14,454,000
COMMERCIAL DEVELOPMENT CHARGES*	22,000	26,400	314,600	0	0	0	363,000
USER REVENUES	102,000	122,400	1,458,600	0	0	0	1,683,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	1,000,000	1,200,000	14,300,000	0	0	0	16,500,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Construction of feedermain to service new development. Timing of construction dependent on rate of development.</p>

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p>ITEM NO. 128</p> <p><u>SYSTEM EXPANSION</u></p> <p>Zone 1 feedermain on easement from Townline Rd. to Prestonvale Rd., Courtice</p> <p>Project No.: D2005</p>
<b>RELATED PROJECTS</b>
<p><i>Municipality of Clarington (Courtice)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	500,000	0	0	0	0	500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	2,700,000	0	0	2,700,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>500,000</b>	<b>0</b>	<b>2,700,000</b>	<b>0</b>	<b>0</b>	<b>3,200,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	438,000	0	2,365,200	0	0	2,803,200
COMMERCIAL DEVELOPMENT CHARGES*	0	11,000	0	59,400	0	0	70,400
USER REVENUES	0	51,000	0	275,400	0	0	326,400
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>500,000</b>	<b>0</b>	<b>2,700,000</b>	<b>0</b>	<b>0</b>	<b>3,200,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

<b>NEED/EXPLANATION OF PROJECT</b>
<p>Construction of feedermain to service new development. Timing of construction dependent on rate of development.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 137</p> <p>SYSTEM EXPANSION</p> <p>Watermain on Grady Dr. from Whitehand Cres. to North St., Newcastle</p> <p>Project No.: D2008</p>
RELATED PROJECTS
<p><i>Municipality of Clarington (Newcastle)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	100,000	0	0	0	0	100,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	700,000	0	0	0	700,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	100,000	700,000	0	0	0	800,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	100,000	700,000	0	0	0	800,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	100,000	700,000	0	0	0	800,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>To provide looping and security to the existing system.</p>



**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p><b>ITEM NO. 138</b></p> <p><u>OTHER LINEAR INFRASTRUCTURE</u></p> <p>Replacement of meters</p> <p>Project No.: D2006</p>								
<b>RELATED PROJECTS</b>								
		<b>Budget Prior to 2020</b>	<b>2020 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
	<b>EXPENDITURES:</b>			<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	
	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING							0
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	15,500,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>15,500,000</b>
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
	USER REVENUES	0	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	15,500,000
	DEBENTURES							0
	OTHER							0
	<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>3,100,000</b>	<b>15,500,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>								

NEED/EXPLANATION OF PROJECT
<p>New installation and replacement of meters that have reached the end of their service life.</p>

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION						
<p>ITEM NO.: 139</p> <p><u>OTHER LINEAR INFRASTRUCTURE</u></p> <p>Depot - Replacement of polybutylene service connections in various locations</p> <p>Project No.: M2025</p>							
<b>RELATED PROJECTS</b>							
			Four Year Forecast				
	Budget Prior to 2020	2020 CAPITAL BUDGET	2021	2022	2023	2024	TOTAL
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING							0
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	100,000	0	0	0	0	100,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	100,000	0	0	0	0	100,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	100,000	0	0	0	0	100,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	100,000	0	0	0	0	100,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p>ITEM NO.: 140</p> <p>OTHER LINEAR INFRASTRUCTURE</p> <p>Replacement of lead service connections in various locations</p> <p>Project No.: M2032</p>								
<b>RELATED PROJECTS</b>								
		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
				2021	2022	2023	2024	
	<b>EXPENDITURES:</b>							
	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING	0	100,000	100,000	100,000	100,000	100,000	500,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	900,000	900,000	900,000	900,000	900,000	4,500,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
	USER REVENUES	0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
	DEBENTURES							0
	OTHER							0
	<b>TOTAL ATTRIBUTION</b>	0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>								

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p>ITEM NO. 141</p> <p>OTHER LINEAR INFRASTRUCTURE</p> <p>Replacement of valves</p> <p>Project No. M2026</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
ITEM NO. 142  OTHER LINEAR INFRASTRUCTURE  Replacement of hydrants  Project No. M2027								
<b>RELATED PROJECTS</b>								
		<b>Budget Prior to 2020</b>	<b>2020 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
	<b>EXPENDITURES:</b>							
	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING							0
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	200,000	200,000	200,000	200,000	200,000	1,000,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	200,000	200,000	200,000	200,000	200,000	1,000,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
	USER REVENUES	0	200,000	200,000	200,000	200,000	200,000	1,000,000
	DEBENTURES							0
	OTHER							0
	<b>TOTAL ATTRIBUTION</b>	0	200,000	200,000	200,000	200,000	200,000	1,000,000
	Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION						
<p>ITEM NO. 143</p> <p>OTHER LINEAR INFRASTRUCTURE</p> <p>Smart City Initiative - water distribution system pilot</p> <p>Project No. D2023</p>							
<b>RELATED PROJECTS</b>							
			Four Year Forecast				
	Budget Prior to 2020	2020 CAPITAL BUDGET	2021	2022	2023	2024	TOTAL
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	500,000	0	0	0	0	500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	500,000	0	0	0	0	500,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	500,000	0	0	0	0	500,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	500,000	0	0	0	0	500,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

**PROJECT LOCATION & DESCRIPTION**

ITEM NO. 144

BUILDINGS

Seaton Zone 4 Reservoir and Zone 5 Water Pumping Station, Pickering

Project No.: D1701

**RELATED PROJECTS**

2017 Water Supply Capital Budget Item No. 122  
2018 Water Supply Capital Budget Item No. 110

*City of Pickering*

Highway 7

Whitevale Rd

Sideline 26

Seaton Z4 Reservoir and Z5 PS

407 EIR

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	2,900,000	0	0	0	0	0	2,900,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	17,100,000	6,700,000	0	0	0	0	23,800,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	20,000,000	6,700,000	0	0	0	0	26,700,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	300,000	0	0	0	0	0	300,000
DEBENTURES							0
OTHER - DEVELOPER	19,700,000	6,700,000	0	0	0	0	26,400,000
<b>TOTAL ATTRIBUTION</b>	20,000,000	6,700,000	0	0	0	0	26,700,000

Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.

**NEED/EXPLANATION OF PROJECT**

Durham to oversee the detailed design and construction of vertical infrastructure required for the development of the Seaton Community.

**PROJECT LOCATION & DESCRIPTION**

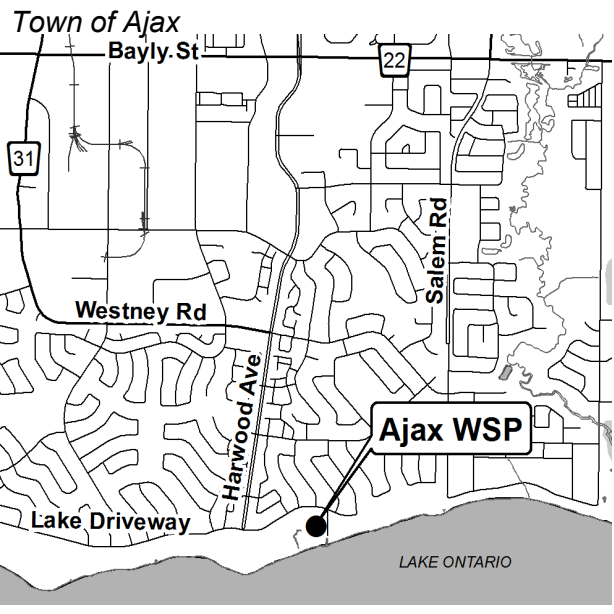
**ITEM NO. 145**

**BUILDINGS**

Expansion of the Ajax Water Supply Plant from 163.6 MLD to 327 MLD, Ajax

Project No.: D2010

**RELATED PROJECTS**



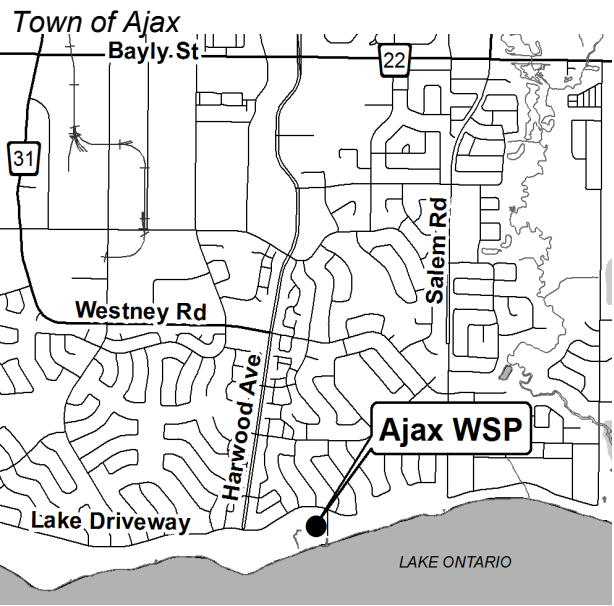
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	0	1,500,000	0	0	0	0	1,500,000
ENGINEERING	0	0	0	4,500,000	0	8,000,000	12,500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	0	0	97,500,000	97,500,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>1,500,000</b>	<b>0</b>	<b>4,500,000</b>	<b>0</b>	<b>105,500,000</b>	<b>111,500,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	105,150	0	315,450	0	29,582,200	30,002,800
COMMERCIAL DEVELOPMENT CHARGES*	0	10,530	0	31,590	0	2,958,220	3,000,340
USER REVENUES	0	544,320	0	1,632,960	0	13,879,580	16,056,860
DEBENTURES							0
OTHER	0	840,000	0	2,520,000	0	59,080,000	62,440,000
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>1,500,000</b>	<b>0</b>	<b>4,500,000</b>	<b>0</b>	<b>105,500,000</b>	<b>111,500,000</b>

Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.

**NEED/EXPLANATION OF PROJECT**

Construction of future expansion required to accommodate new development. Timing of construction dependent on the rate of development.



PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 146</b></p> <p><u>BUILDINGS</u></p> <p>Ajax Water Supply Plant - expansion joint rehabilitation work</p> <p>Project No.: D1850</p>
RELATED PROJECTS
<p>2019 Water Supply Capital Budget Item No. 143</p>


BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	400,000	0	0	0	0	0	400,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	2,100,000	0	0	0	0	2,100,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	400,000	2,100,000	0	0	0	0	2,500,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	400,000	2,100,000	0	0	0	0	2,500,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	400,000	2,100,000	0	0	0	0	2,500,000

Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.

NEED/EXPLANATION OF PROJECT

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p>ITEM NO. 147</p> <p><u>BUILDINGS</u></p> <p>Proposed Ajax Zone 1 water storage facility - 11 ML, Ajax</p> <p>Project No.: D1911</p>
<b>RELATED PROJECTS</b>
<p>2019 Water Supply Capital Budget Item No. 144</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	0	600,000	0	0	0	0	600,000
ENGINEERING	200,000	0	0	600,000	0	0	800,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	0	0	11,100,000	11,100,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>200,000</b>	<b>600,000</b>	<b>0</b>	<b>600,000</b>	<b>0</b>	<b>11,100,000</b>	<b>12,500,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	175,200	525,600	0	525,600	0	9,723,600	10,950,000
COMMERCIAL DEVELOPMENT CHARGES*	4,400	13,200	0	13,200	0	244,200	275,000
USER REVENUES	20,400	61,200	0	61,200	0	1,132,200	1,275,000
DEBENTURE							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>200,000</b>	<b>600,000</b>	<b>0</b>	<b>600,000</b>	<b>0</b>	<b>11,100,000</b>	<b>12,500,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

<b>NEED/EXPLANATION OF PROJECT</b>
<p>Construction of water storage facility to service new development. Timing of construction dependent on rate of development.</p>

**PROJECT LOCATION & DESCRIPTION**

**ITEM NO.: 148**

**BUILDINGS**

Expansion of the Whitby Water Supply Plant from 109 MLD to 218 MLD, Whitby

Project No.: D9944

2014 Water Supply Capital Budget Item No. 82  
2015 Water Supply Capital Budget Item No. 122  
2016 Water Supply Capital Budget Item No. 121

*Town of Whitby*

**Whitby WSP**

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	7,350,000	500,000	0	12,000,000	0	0	19,850,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	2,000,000	0	137,000,000	0	0	139,000,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>7,350,000</b>	<b>2,500,000</b>	<b>0</b>	<b>149,000,000</b>	<b>0</b>	<b>0</b>	<b>158,850,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	4,957,297	1,500,000	0	89,400,000	0	0	95,857,297
COMMERCIAL DEVELOPMENT CHARGES*	601,405	150,500	0	8,969,800	0	0	9,721,705
USER REVENUES	1,791,298	849,500	0	50,630,200	0	0	53,270,998
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>7,350,000</b>	<b>2,500,000</b>	<b>0</b>	<b>149,000,000</b>	<b>0</b>	<b>0</b>	<b>158,850,000</b>

Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.

**NEED/EXPLANATION OF PROJECT**

Preliminary and detailed design has been initiated.  
Construction to commence in 2022

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO.: 152</b></p> <p><u>BUILDINGS</u></p> <p>Thickson Rd. Zone 3 Water Pumping Station Expansion to 22 MLD, Whitby</p> <p>Project No.: D2022</p>
RELATED PROJECTS

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	1,600,000	0	0	0	0	1,600,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	10,900,000	0	0	0	10,900,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>1,600,000</b>	<b>10,900,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,500,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	1,217,600	8,294,900	0	0	0	9,512,500
COMMERCIAL DEVELOPMENT CHARGES*	0	30,560	208,190	0	0	0	238,750
USER REVENUES	0	351,840	2,396,910	0	0	0	2,748,750
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>1,600,000</b>	<b>10,900,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12,500,000</b>
<p><small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small></p>							

NEED/EXPLANATION OF PROJECT
<p>Expansion of pumping station required to accommodate new development.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO.: 154</p> <p><u>BUILDINGS</u></p> <p>Proposed Whitby Zone 4 Storage Facility - 13 ML</p> <p>Project No.: D1505</p>
<p><b>RELATED PROJECTS</b></p> <p>2015 Water Supply Capital Budget Item No. 126 2019 Water Supply Capital Budget Item No. 151</p>
<p><i>Town of Whitby</i></p> <p>Myrtle Rd</p> <p>Duffs Rd</p> <p>Brawley Rd</p> <p>Columbus Rd</p> <p>Baldwin St</p> <p>Thicketson Rd</p> <p>Proposed Zone 4 Storage Facility</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	1,000,000	500,000	0	0	0	0	1,500,000
ENGINEERING	0	1,200,000	0	0	0	0	1,200,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	11,200,000	0	0	0	11,200,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	1,000,000	1,700,000	11,200,000	0	0	0	13,900,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	824,500	1,310,700	8,635,200	0	0	0	10,770,400
COMMERCIAL DEVELOPMENT CHARGES*	23,150	32,810	216,160	0	0	0	272,120
USER REVENUES	152,350	356,490	2,348,640	0	0	0	2,857,480
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	1,000,000	1,700,000	11,200,000	0	0	0	13,900,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO.: 156</b></p> <p><u>BUILDINGS</u></p> <p>Oshawa Water Supply Plant - break wall modifications</p> <p>Project No.: D2025</p>
RELATED PROJECTS

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	100,000	0	0	0	0	100,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	1,000,000	0	0	0	1,000,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>100,000</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,100,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	100,000	1,000,000	0	0	0	1,100,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>100,000</b>	<b>1,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,100,000</b>
<p><small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small></p>							

NEED/EXPLANATION OF PROJECT
<p>Modifications are required to the break wall at the back of the plant due to the reoccurrence of high lake water levels.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO.: 160</p> <p><u>BUILDINGS</u></p> <p>Taunton Rd. Zone 4 Water Pumping Station - additional pumps for interim solution</p> <p>Project No.: D1933</p>
<b>RELATED PROJECTS</b>
<p>City of Oshawa</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	130,000	0	0	0	0	0	130,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	120,000	750,000	0	0	0	0	870,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>250,000</b>	<b>750,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	189,750	657,000	0	0	0	0	846,750
COMMERCIAL DEVELOPMENT CHARGES*	4,775	16,500	0	0	0	0	21,275
USER REVENUES	55,475	76,500	0	0	0	0	131,975
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>250,000</b>	<b>750,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Additional pumping capacity for Zone 4 development. This is an interim solution until the infrastructure in Zone 4 has been constructed.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 162</b></p> <p><u>BUILDINGS</u></p> <p>Proposed Zone 4 Pumping Station at the Harmony Rd. Reservoir Oshawa</p> <p>Project No. D1507</p>
<b>RELATED PROJECTS</b>
<p>2015 Water Supply Capital Budget Item No. 129</p> <p>2019 Water Supply Capital Budget Item No. 157</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	500,000	0	0	0	0	0	500,000
ENGINEERING	250,000	250,000	0	0	0	0	500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	6,700,000	0	0	0	6,700,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>750,000</b>	<b>250,000</b>	<b>6,700,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,700,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	628,750	189,750	5,085,300	0	0	0	5,903,800
COMMERCIAL DEVELOPMENT CHARGES*	18,275	4,775	127,970	0	0	0	151,020
USER REVENUES	102,975	55,475	1,486,730	0	0	0	1,645,180
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>750,000</b>	<b>250,000</b>	<b>6,700,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,700,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Construction of pumping station required to accommodate new development.</p>



PROJECT LOCATION & DESCRIPTION
<p>ITEM NO.: 163</p> <p><u>BUILDINGS</u></p> <p>Proposed Oshawa Zone 4 Storage Facility - 16 ML</p> <p>Project No.: D1609</p>
<p><b>RELATED PROJECTS</b></p> <p>2016 Water Supply Capital Budget Item No. 132 2019 Water Supply Capital Budget Item No. 158</p>
<p>City of Oshawa</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	1,000,000	1,000,000	0	0	0	0	2,000,000
ENGINEERING	0	2,200,000	0	0	0	0	2,200,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	10,700,000	0	0	10,700,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>1,000,000</b>	<b>3,200,000</b>	<b>0</b>	<b>10,700,000</b>	<b>0</b>	<b>0</b>	<b>14,900,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	802,500	2,326,400	0	7,778,900	0	0	10,907,800
COMMERCIAL DEVELOPMENT CHARGES*	22,615	58,336	0	195,061	0	0	276,012
USER REVENUES	174,885	815,264	0	2,726,039	0	0	3,716,188
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>1,000,000</b>	<b>3,200,000</b>	<b>0</b>	<b>10,700,000</b>	<b>0</b>	<b>0</b>	<b>14,900,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Timing of expansion dependent on rate of development.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO.: 164</p> <p><u>BUILDINGS</u></p> <p>Proposed Zone 5 Pumping Station at Harmony Rd. Reservoir and feedermain, Oshawa</p> <p>Project No.: D2013</p>
<b>RELATED PROJECTS</b>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	0	500,000	0	0	0	0	500,000
ENGINEERING	0	500,000	0	0	0	0	500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	9,000,000	0	0	9,000,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	1,000,000	0	9,000,000	0	0	10,000,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	876,000	0	7,884,000	0	0	8,760,000
COMMERCIAL DEVELOPMENT CHARGES*	0	22,000	0	198,000	0	0	220,000
USER REVENUES	0	102,000	0	918,000	0	0	1,020,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	1,000,000	0	9,000,000	0	0	10,000,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Construction of pumping station required to accommodate new development.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO.: 165</p> <p><u>BUILDINGS</u></p> <p>Hortop Water Pumping Station - pumping station replacement, Oshawa</p> <p>Project No.: D2015</p>
<b>RELATED PROJECTS</b>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	0	100,000	0	0	0	0	100,000
ENGINEERING	0	0	1,000,000	0	0	0	1,000,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	9,300,000	0	0	9,300,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	100,000	1,000,000	9,300,000	0	0	10,400,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	100,000	1,000,000	9,300,000	0	0	10,400,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	100,000	1,000,000	9,300,000	0	0	10,400,000

Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.

NEED/EXPLANATION OF PROJECT
<p>The pumping station has reached the end of its useful life. A pumpage needs study to be completed first to assess the pumpage needs of the station.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO.: 166</p> <p><u>BUILDINGS</u></p> <p>Bowmanville Water Supply Plant Expansion from 36 MLD to 55 MLD</p> <p>Project No.: D2017</p>
<b>RELATED PROJECTS</b>
<p><i>Municipality of Clarington (Bowmanville)</i></p> <p>LAKE ONTARIO</p>

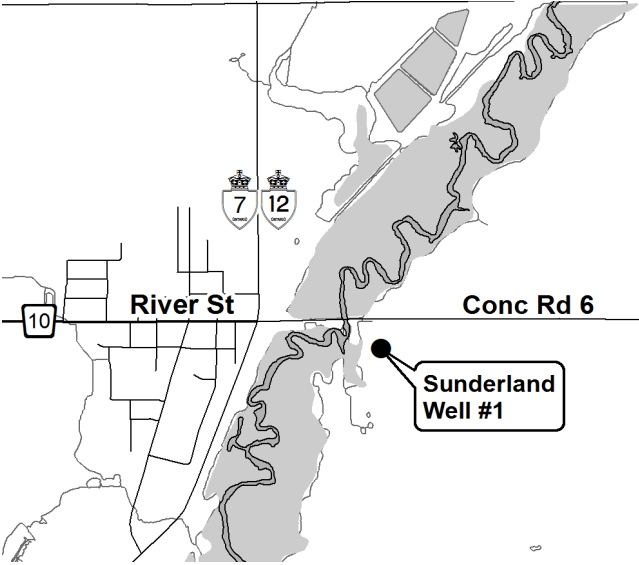
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	0	500,000	0	0	0	0	500,000
ENGINEERING	0	0	0	0	1,500,000	0	1,500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	500,000	0	0	1,500,000	0	2,000,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	294,500	0	0	883,500	0	1,178,000
COMMERCIAL DEVELOPMENT CHARGES*	0	29,550	0	0	88,650	0	118,200
USER REVENUES	0	175,950	0	0	527,850	0	703,800
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	500,000	0	0	1,500,000	0	2,000,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Timing of expansion dependent on rate of development.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO.: 171</p> <p><u>BUILDINGS</u></p> <p>Proposed Zone 1 Reservoir 11 ML and feedermain</p> <p>Project No.: D1202</p>
<p><b>RELATED PROJECTS</b></p> <p>2012 Water Supply Capital Budget Item No. 84 2019 Water Supply Capital Budget Item No. 167</p>
<p><i>Municipality of Clarington (Newcastle)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	1,200,000	0	0	0	0	0	1,200,000
ENGINEERING	0	3,000,000	0	0	0	0	3,000,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	8,410,000	0	0	0	8,410,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	1,200,000	3,000,000	8,410,000	0	0	0	12,610,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	1,018,800	2,487,000	6,971,890	0	0	0	10,477,690
COMMERCIAL DEVELOPMENT CHARGES*	28,230	62,100	174,087	0	0	0	264,417
USER REVENUES	152,970	450,900	1,264,023	0	0	0	1,867,893
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	1,200,000	3,000,000	8,410,000	0	0	0	12,610,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Construction of future reservoir required to accommodate new development. Timing of construction dependent on rate of development.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 180</b></p> <p><u>BUILDINGS</u></p> <p>Sunderland WSS - New Well and Pumphouse with Standby power</p> <p>Project No. K0601</p>
<p align="center"><b>RELATED PROJECTS</b></p> <p>2006 Water Supply Capital Budget Item No. 66                  2010 Water Supply Capital Budget Item No. 86                  2019 Water Supply Capital Budget Item No. 176</p>
<p><i>Township of Brock (Sunderland)</i></p>  <p>The map shows the location of Sunderland Well #1 in the Township of Brock, Ontario. It is situated near the intersection of River St and Conc Rd 6. The map also shows Highway 7 and Highway 12 nearby.</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	1,250,000	490,000	0	0	0	0	1,740,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	510,000	0	3,500,000	0	0	4,010,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	1,250,000	1,000,000	0	3,500,000	0	0	5,750,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	538,500	124,000	0	434,000	0	0	1,096,500
COMMERCIAL DEVELOPMENT CHARGES*	71,800	12,500	0	43,750	0	0	128,050
USER REVENUES	639,700	863,500	0	3,022,250	0	0	4,525,450
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	1,250,000	1,000,000	0	3,500,000	0	0	5,750,000

Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.

NEED/EXPLANATION OF PROJECT
<p>Required to provide system security and capacity for new development.</p>

**PROJECT LOCATION & DESCRIPTION**

**ITEM NO.: 183**

BUILDINGS

Cannington WSS - New Municipal Well and Pumphouse

Project No.: K0701

**RELATED PROJECTS**

2010 Water Supply Capital Budget Item No. 87  
 2013 Water Supply Capital Budget Item No. 91  
 2014 Water Supply Capital Budget Item No. 124

*Township of Brock (Cannington)*

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	500,000	0	0	0	0	0	500,000
ENGINEERING	500,000	0	0	0	0	0	500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	750,000	5,000,000	0	0	0	0	5,750,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>1,750,000</b>	<b>5,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,750,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	1,004,220	50,000	0	0	0	0	1,054,220
COMMERCIAL DEVELOPMENT CHARGES*	139,160	4,500	0	0	0	0	143,660
USER REVENUES	606,620	4,945,500	0	0	0	0	5,552,120
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>1,750,000</b>	<b>5,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,750,000</b>

Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.

**NEED/EXPLANATION OF PROJECT**

Required to provide security to the system and capacity for new development.  
 Environmental Assessment completed  
 Detailed Design has commenced.

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p><b>ITEM NO. 188</b></p> <p><u>BUILDINGS</u></p> <p>Water Storage Facilities condition assessment and rehabilitation works</p> <p>Project No. D1918</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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2019 Water Supply Capital Budget Item No. 184	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>30,000</td> <td>70,000</td> <td>30,000</td> <td>30,000</td> <td>30,000</td> <td>30,000</td> <td>220,000</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td>120,000</td> <td>395,000</td> <td>120,000</td> <td>120,000</td> <td>120,000</td> <td>120,000</td> <td>995,000</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td>150,000</td> <td>465,000</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>1,215,000</td> </tr> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>USER REVENUES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>DEBENTURES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ASSET MGMT RESERVE FUND</td> <td>150,000</td> <td>465,000</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>1,215,000</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td>150,000</td> <td>465,000</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>1,215,000</td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING	30,000	70,000	30,000	30,000	30,000	30,000	220,000	LAND ACQUISITION							0	UTILITY RELOCATION							0	CONSTRUCTION	120,000	395,000	120,000	120,000	120,000	120,000	995,000	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	150,000	465,000	150,000	150,000	150,000	150,000	1,215,000	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES							0	COMMERCIAL DEVELOPMENT CHARGES*							0	USER REVENUES							0	DEBENTURES							0	ASSET MGMT RESERVE FUND	150,000	465,000	150,000	150,000	150,000	150,000	1,215,000	<b>TOTAL ATTRIBUTION</b>	150,000	465,000	150,000	150,000	150,000	150,000	1,215,000
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NEED/EXPLANATION OF PROJECT
Asset Management Project - Water Storage facility condition assessments and rehabilitation works



PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																																						
ITEM NO. 189  <u>BUILDINGS</u>  Wellhead protection at Regional well sites  Project No. M0101	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																																				
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NEED/EXPLANATION OF PROJECT
Monitoring and studies required to identify aquifer protection zones for the existing and future well systems operated by the Region. Implementation of some Wellhead Protection Study findings. Includes Permit to Take Water requirements.

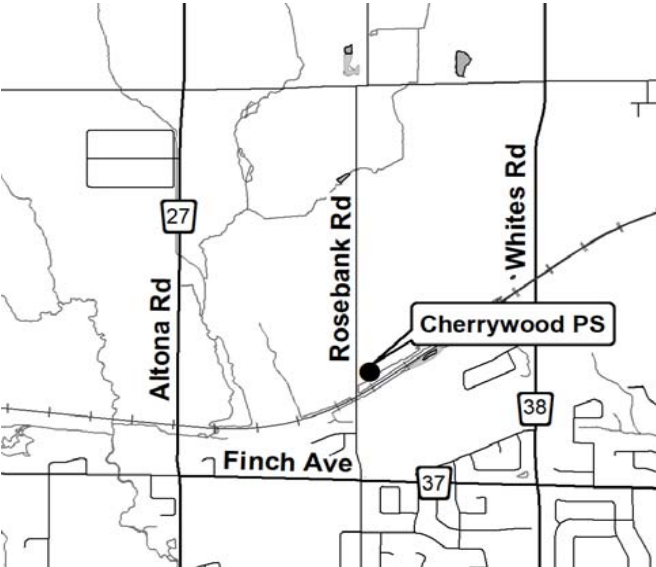
PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 191</b></p> <p><b>MACHINERY AND EQUIPMENT</b></p> <p>Regional Environmental Laboratory Upgrades and ventilation associated works, Pickering Project No.: Y1602</p>
<p><b>RELATED PROJECTS</b></p> <p>2016 Water Supply Capital Budget Item No. 116 2017 Water Supply Capital Budget Item No. 121 2019 Water Supply Capital Budget Item No. 186 2020 Sanitary Sewerage Capital Budget Item No. 98</p>
<p><i>City of Pickering</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	600,000	0	0	0	0	0	600,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	3,600,000	450,000	0	0	0	0	4,050,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>4,200,000</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,650,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	1,843,800	197,550	0	0	0	0	2,041,350
COMMERCIAL DEVELOPMENT CHARGES*	56,700	6,075	0	0	0	0	62,775
USER REVENUES	199,500	21,375	0	0	0	0	220,875
DEBENTURES							0
OTHER - YORK	2,100,000	225,000	0	0	0	0	2,325,000
<b>TOTAL ATTRIBUTION</b>	<b>4,200,000</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,650,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Cost sharing with York Region</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

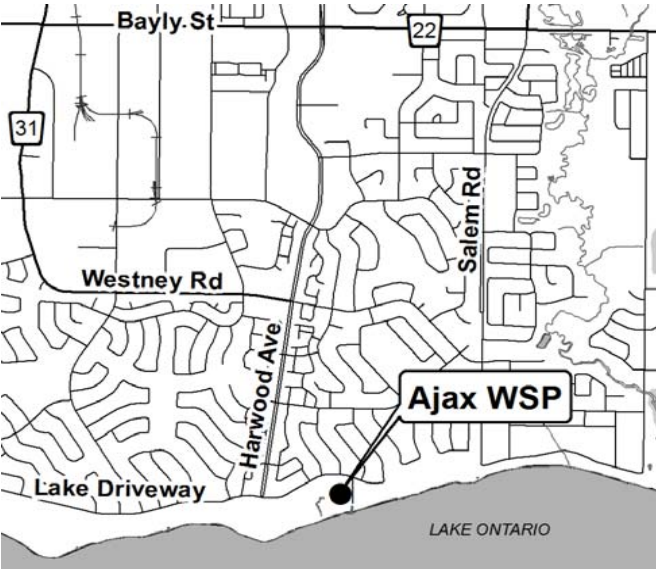
**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p>ITEM NO. 194</p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Cherrywood Pumping Station upgrades - pumps and feedermain, Pickering</p> <p>Project No.: D2018</p>		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				
<p><b>RELATED PROJECTS</b></p>				2021	2022	2023	2024	TOTAL
<p><i>City of Pickering</i></p> 	ENVIRONMENTAL ASSESSMENT	0	300,000	0	0	0	0	300,000
	ENGINEERING	0	0	0	1,500,000	0	0	1,500,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	0	0	1,500,000	0	0	1,500,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	300,000	0	1,500,000	0	0	1,800,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
	USER REVENUES	0	300,000	0	1,500,000	0	0	1,800,000
	DEBENTURES							0
	OTHER							0
	<b>TOTAL ATTRIBUTION</b>	0	300,000	0	1,500,000	0	0	1,800,000
	<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>System upgrades will help meet average day demand during maintenance works and provide system secure and backup.</p>

REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL

WATER SUPPLY SYSTEM

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																																						
<p>ITEM NO. 196</p> <p>MACHINERY AND EQUIPMENT</p> <p>Ajax Water Supply Plant - Chlorine line replacement</p> <p>Project No.: D2019</p>	<table border="1"> <thead> <tr> <th></th> <th>Budget Prior to 2020</th> <th>2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th>TOTAL</th> </tr> <tr> <th>EXPENDITURES:</th> <th></th> <th></th> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> <th></th> </tr> </thead> <tbody> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td data-bbox="1354 496 1482 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EXPENDITURES</b>	<b>0</b>	<b>460,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>460,000</b>	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES							0	COMMERCIAL DEVELOPMENT CHARGES*							0	USER REVENUES	0	460,000	0	0	0	0	460,000	DEBENTURES							0	OTHER							0	<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>460,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>460,000</b>
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<p>Town of Ajax</p> 	<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>																																																																																																																																																						
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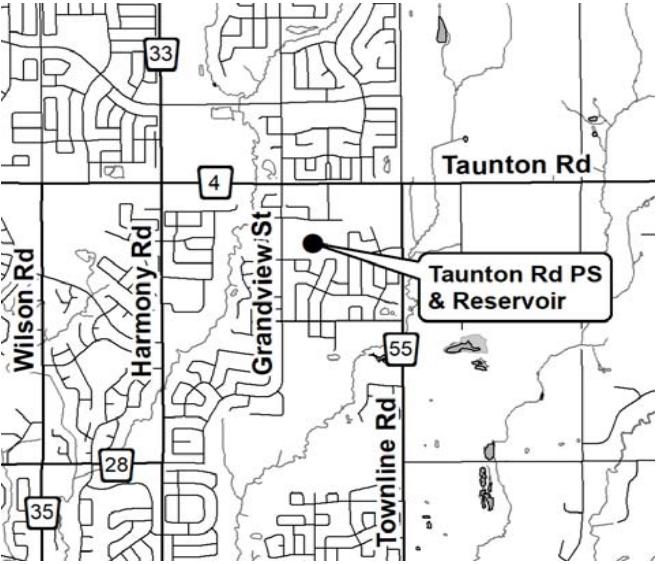
PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 197</p> <p>MACHINERY AND EQUIPMENT</p> <p>Whitby Water Supply Plant - Chlorine line replacement</p> <p>Project No.: D2020</p>
<b>RELATED PROJECTS</b>
<p>Town of Whitby</p>


BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	60,000	0	0	0	0	60,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	400,000	0	0	0	0	400,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	460,000	0	0	0	0	460,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	460,000	0	0	0	0	460,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	460,000	0	0	0	0	460,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

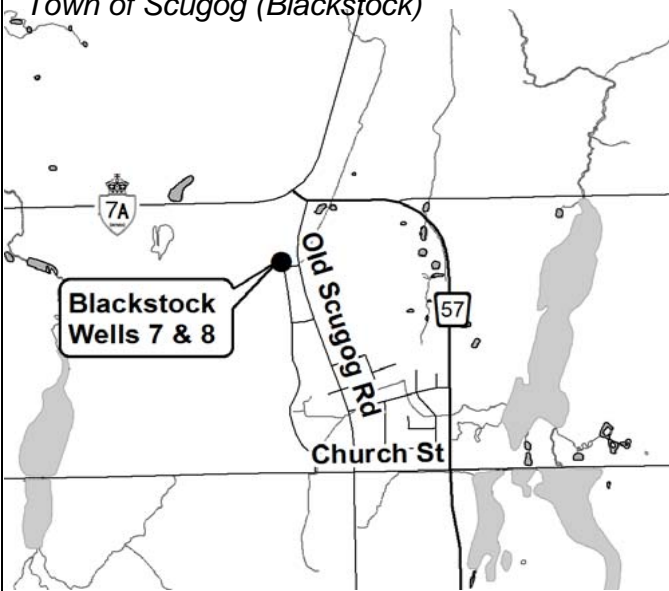
NEED/EXPLANATION OF PROJECT
<p>The chlorine line has reached the end of it's useful life and require replacement.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																														
<p><b>ITEM NO. 204</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Taunton Rd. Water Pumping Station and Reservoir - station improvements and replacements</p> <p>Project No.: D2021</p>	<table border="1"> <thead> <tr> <th></th> <th>Budget Prior to 2020</th> <th>2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th></th> </tr> <tr> <th></th> <th></th> <th></th> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> <th>TOTAL</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast								2021	2022	2023	2024	TOTAL																																																								
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<p>Based on the completed condition assessment.</p>																																																																															

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																						
<p><b>ITEM NO. 205</b>  <b>MACHINERY AND EQUIPMENT</b>                      Bowmanville Water Supply Plant - Disinfection upgrades                      Project No.: D1927</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																				
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<p><i>Municipality of Clarington (Bowmanville)</i></p> 	<table border="1"> <tbody> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>USER REVENUES</td> <td>100,000</td> <td>700,000</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>800,000</td> </tr> <tr> <td>DEBENTURES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td><b>100,000</b></td> <td><b>700,000</b></td> <td><b>0</b></td> <td><b>0</b></td> <td><b>0</b></td> <td><b>0</b></td> <td><b>800,000</b></td> </tr> </tbody> </table>							<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES							0	COMMERCIAL DEVELOPMENT CHARGES*							0	USER REVENUES	100,000	700,000	0	0	0	0	800,000	DEBENTURES							0	OTHER							0	<b>TOTAL ATTRIBUTION</b>	<b>100,000</b>	<b>700,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>800,000</b>
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<p><b>NEED/EXPLANATION OF PROJECT</b></p>																																																																							
<p>Disinfection improvements to comply with new chlorine contact times.</p>																																																																							

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION								
<p><b>ITEM NO. 213</b>  <b>MACHINERY AND EQUIPMENT</b>                      Blackstock Groundwater Supply System - upgrades to Municipal Well No. 7                      Project No.: D1838</p>		<p><b>Budget Prior to 2020</b></p>	<p><b>2020 CAPITAL BUDGET</b></p>	<p><b>Four Year Forecast</b></p>					
<p><b>RELATED PROJECTS</b></p>	<p><b>EXPENDITURES:</b></p>			<p><b>2021</b></p>	<p><b>2022</b></p>	<p><b>2023</b></p>	<p><b>2024</b></p>	<p><b>TOTAL</b></p>	
<p>2018 Water Supply Capital Budget Item No. 144</p>	<p>ENVIRONMENTAL ASSESSMENT</p>							<p>0</p>	
<p><i>Town of Scugog (Blackstock)</i></p>	<p>ENGINEERING</p>	<p>300,000</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>300,000</p>	
	<p>LAND ACQUISITION</p>							<p>0</p>	
	<p>UTILITY RELOCATION</p>							<p>0</p>	
	<p>CONSTRUCTION</p>	<p>1,200,000</p>	<p>700,000</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>1,900,000</p>	
	<p>CONTINGENCY</p>								<p>0</p>
	<p>OTHER</p>								<p>0</p>
	<p><b>TOTAL EXPENDITURES</b></p>	<p>1,500,000</p>	<p>700,000</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>2,200,000</p>	
	<p><b>ATTRIBUTION:</b></p>								
	<p>SUBSIDY/GRANTS</p>							<p>0</p>	
	<p>RESIDENTIAL DEVELOPMENT CHARGES</p>							<p>0</p>	
	<p>COMMERCIAL DEVELOPMENT CHARGES*</p>							<p>0</p>	
<p>USER REVENUES</p>	<p>1,500,000</p>	<p>700,000</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>2,200,000</p>		
<p>DEBENTURES</p>							<p>0</p>		
<p>OTHER</p>							<p>0</p>		
<p><b>TOTAL ATTRIBUTION</b></p>	<p>1,500,000</p>	<p>700,000</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>2,200,000</p>		
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>									

NEED/EXPLANATION OF PROJECT
<p>Works to be completed in phases.                      Phase 1: Rehabilitation works on Municipal Well No. 7                      Phase 2: Rehabilitation works on the pumphouse, electrical upgrades and replacement of process piping and header.</p>



**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p><b>ITEM NO. 216</b>  <u>MACHINERY AND EQUIPMENT</u>                      Automatic Bulk Water Dispensing System                      Project No.: D1717</p>		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				
<p><b>RELATED PROJECTS</b>                      2017 Water Supply Capital Budget Item No. 169                      2018 Water Supply Capital Budget Item No. 174                      2019 Water Supply Capital Budget Item No. 215</p>				2021	2022	2023	2024	TOTAL
	<b>EXPENDITURES:</b>							
	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING	240,000	500,000	500,000	200,000	200,000	0	1,640,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	1,100,000	2,700,000	3,600,000	1,900,000	3,900,000	2,000,000	15,200,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	1,340,000	3,200,000	4,100,000	2,100,000	4,100,000	2,000,000	16,840,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
	USER REVENUES	1,340,000	3,200,000	4,100,000	2,100,000	4,100,000	2,000,000	16,840,000
	DEBENTURES							0
	OTHER							0
	<b>TOTAL ATTRIBUTION</b>	1,340,000	3,200,000	4,100,000	2,100,000	4,100,000	2,000,000	16,840,000
	Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

NEED/EXPLANATION OF PROJECT
Required to provide a secure, efficient and accessible method of supplying bulk water to customers.

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 221</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Asset Condition Assessments - Reports for the Vertical Assets</p> <p>Project No.: D1419</p>
<b>RELATED PROJECTS</b>
<p>2014 Water Supply Capital Budget Item No. 140</p> <p>2015 Water Supply Capital Budget Item No. 165</p> <p>2020 Sanitary Sewerage Budget Item No. 119</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	801,000	112,000	200,000	300,000	300,000	300,000	2,013,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	801,000	112,000	200,000	300,000	300,000	300,000	2,013,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	801,000	112,000	200,000	300,000	300,000	300,000	2,013,000
<b>TOTAL ATTRIBUTION</b>	801,000	112,000	200,000	300,000	300,000	300,000	2,013,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Provincial requirement to assess conditions of all assets and develop a rehabilitation strategy.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 222</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Asset Condition/Investigation on transmission pipe
Project No.: D1420
<b>RELATED PROJECTS</b>
2014 Water Supply Capital Budget Item No. 141
2015 Water Supply Capital Budget Item No. 166
2020 Sanitary Sewerage Budget Item No. 120

<b>BUDGET PROVISION AND COST ATTRIBUTION</b>							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	600,000	100,000	100,000	150,000	200,000	200,000	1,350,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	600,000	100,000	100,000	150,000	200,000	200,000	1,350,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
ASSET MGMT RESERVE FUND	600,000	100,000	100,000	150,000	200,000	200,000	1,350,000
<b>TOTAL ATTRIBUTION</b>	600,000	100,000	100,000	150,000	200,000	200,000	1,350,000
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

<b>NEED/EXPLANATION OF PROJECT</b>
Allowance for assessments on large transmission pipe

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 224</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for acquisition of easements
Project No. M2001
<b>RELATED PROJECTS</b>
2020 Sanitary Sewerage Budget Item No. 122

<b>BUDGET PROVISION AND COST ATTRIBUTION</b>							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING							0
LAND ACQUISITION	0	150,000	150,000	150,000	150,000	150,000	750,000
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	150,000	150,000	150,000	150,000	150,000	750,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	150,000	150,000	150,000	150,000	150,000	750,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	150,000	150,000	150,000	150,000	150,000	750,000
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

<b>NEED/EXPLANATION OF PROJECT</b>
A number of watermains are located on easements to which the Region does not have a clear title. This allowance is for acquisition of easement for existing watermains in various locations.

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 225</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for engineering studies
Project No.: M2007
<b>RELATED PROJECTS</b>
2020 Sanitary Sewerage Budget Item No. 123

<b>BUDGET PROVISION AND COST ATTRIBUTION</b>							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	150,000	300,000	150,000	300,000	150,000	1,050,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	150,000	300,000	150,000	300,000	150,000	1,050,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	150,000	300,000	150,000	300,000	150,000	1,050,000
DEBENTURE							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	150,000	300,000	150,000	300,000	150,000	1,050,000
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

<b>NEED/EXPLANATION OF PROJECT</b>
Allowance for miscellaneous engineering studies

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 226</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Allowance for CTC Source Water Protection Plan related to the Lake Ontario Collaborative</p> <p>Project No.: D1718</p>
<b>RELATED PROJECTS</b>

<b>BUDGET PROVISION AND COST ATTRIBUTION</b>							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	300,000	300,000	300,000	3,400,000	0	0	4,300,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	300,000	300,000	300,000	3,400,000	0	0	4,300,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	300,000	300,000	300,000	3,400,000	0	0	4,300,000
DEBENTURE							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	300,000	300,000	300,000	3,400,000	0	0	4,300,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

<b>NEED/EXPLANATION OF PROJECT</b>
<p>Required to implement the policies related to the approved CTC Source Protection Plan. Terms of reference and implementation plan under development.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION
ITEM NO. 227
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Preliminary Engineering
Project No. 66143
<b>RELATED PROJECTS</b>
2020 Sanitary Sewerage Budget Item No. 125

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	100,000	100,000	100,000	100,000	100,000	500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	100,000	100,000	100,000	100,000	100,000	500,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	100,000	100,000	100,000	100,000	100,000	500,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	100,000	100,000	100,000	100,000	100,000	500,000
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

NEED/EXPLANATION OF PROJECT
Allowance for preliminary engineering carried out in advance of budget provision.

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 228</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for sundry extensions as per Council policy
Project No. M2008
<b>RELATED PROJECTS</b>
2019 Sanitary Sewerage Budget Item No. 126

<b>BUDGET PROVISION AND COST ATTRIBUTION</b>							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	15,000	15,000	15,000	15,000	15,000	75,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	15,000	15,000	15,000	15,000	15,000	75,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	15,000	15,000	15,000	15,000	15,000	75,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	15,000	15,000	15,000	15,000	15,000	75,000
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

<b>NEED/EXPLANATION OF PROJECT</b>
Regional share for sundry extensions.



**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 229</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for unknown requirements
Project No. M2009
<b>RELATED PROJECTS</b>
2020 Sanitary Sewerage Budget Item No. 127

<b>BUDGET PROVISION AND COST ATTRIBUTION</b>							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	100,000	100,000	100,000	100,000	100,000	500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	100,000	100,000	100,000	100,000	100,000	500,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	100,000	100,000	100,000	100,000	100,000	500,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	100,000	100,000	100,000	100,000	100,000	500,000

Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.

<b>NEED/EXPLANATION OF PROJECT</b>
Allowance for unanticipated works.

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 230</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for land severance review and drawing requirements
Project No. M2062
<b>RELATED PROJECTS</b>
2020 Sanitary Sewerage Budget Item No. 128

<b>BUDGET PROVISION AND COST ATTRIBUTION</b>							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	100,000	100,000	100,000	100,000	100,000	500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	100,000	100,000	100,000	100,000	100,000	500,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	100,000	100,000	100,000	100,000	100,000	500,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	0	100,000	100,000	100,000	100,000	100,000	500,000
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

<b>NEED/EXPLANATION OF PROJECT</b>
Allowance for works required to product drawings for the location of stubbed services in the field.

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 231</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for Regional share for works in conjunction with residential subdivision development.
Project No. M2010
<b>RELATED PROJECTS</b>
2020 Sanitary Sewerage Budget Item No. 129

<b>BUDGET PROVISION AND COST ATTRIBUTION</b>							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	200,000	200,000	200,000	200,000	200,000	1,000,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	1,260,000	1,260,000	1,260,000	1,260,000	1,260,000	6,300,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>7,300,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	1,281,880	1,281,880	1,281,880	1,281,880	1,281,880	6,409,400
COMMERCIAL DEVELOPMENT CHARGES*	0	39,420	39,420	39,420	39,420	39,420	197,100
USER REVENUES	0	138,700	138,700	138,700	138,700	138,700	693,500
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>7,300,000</b>
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

<b>NEED/EXPLANATION OF PROJECT</b>
Regional share for watermains related to existing, new residential and new non-residential development, in conjunction with new residential subdivisions.

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 232</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for Regional share for works in conjunction with non residential development.
Project No. M2011
<b>RELATED PROJECTS</b>
2020 Sanitary Sewerage Budget Item No. 130

<b>BUDGET PROVISION AND COST ATTRIBUTION</b>							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	57,200	57,200	57,200	57,200	57,200	286,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	342,800	342,800	342,800	342,800	342,800	1,714,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>2,000,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	351,200	351,200	351,200	351,200	351,200	1,756,000
COMMERCIAL DEVELOPMENT CHARGES*	0	10,800	10,800	10,800	10,800	10,800	54,000
USER REVENUES	0	38,000	38,000	38,000	38,000	38,000	190,000
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>2,000,000</b>
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

<b>NEED/EXPLANATION OF PROJECT</b>
Allowance for possible Regional share in design and construction of watermains for non-residential development.

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 233</b> <u>ALLOWANCES AND OTHER PROVISIONS</u> Well interference works  Project No. M2014
<b>RELATED PROJECTS</b>

<b>BUDGET PROVISION AND COST ATTRIBUTION</b>							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	65,000	65,000	65,000	65,000	110,000	370,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	335,000	335,000	335,000	335,000	890,000	2,230,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>1,000,000</b>	<b>2,600,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	400,000	400,000	400,000	400,000	1,000,000	2,600,000
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
DEBENTURES							0
OTHER							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>1,000,000</b>	<b>2,600,000</b>
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

<b>NEED/EXPLANATION OF PROJECT</b>
Allowance for construction of well interference works in accordance with Regional policy.

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
<b>CONSTRUCTION OF MUNICIPAL SERVICES</b>															
<b>ROAD RELATED PROJECTS</b>															
<b>A</b>	<b>LINEAR INFRASTRUCTURE</b>														
	<b>Regional Road Program</b>														
1	R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville Detailed Design Construction Total	R0503	200,000											200,000 1,550,000 1,750,000	Replacement of deficient water mains and/or construction of required works in conjunction with the Regional Road Program.
2	R.R. 14 (Liberty St.) from Longworth Ave. to Concession Rd. 3, Bowmanville Detailed Design Construction Total				20,000 80,000								20,000 80,000 100,000		
3	R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington Detailed Design Construction Total					200,000		650,000					200,000 650,000 850,000		
4	R.R.22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax Detailed Design Construction Total					200,000		1,600,000					200,000 1,600,000 1,800,000		
5	R.R. 26 (Thickson Rd.) from Wentworth St. to Canadian National Railway bridge, Whitby Detailed Design Construction Total	R0710	25,000	190,000									25,000 190,000 215,000		
6	R.R. 26 (Thickson Rd.) from Consumers Dr. to Dundas St., Whitby Detailed Design Construction Total							400,000			2,500,000		400,000 2,500,000 2,900,000		

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
7	R.R. 28 (Rossland Rd.) from Ritson Rd. to Harmony Rd., Oshawa Detailed Design Construction Total	R1811		200,000			2,000,000							200,000 2,000,000 2,200,000	
8	R.R. 29 (Liverpool Rd.) from Kingston Rd. (Highway No. 2) to Highway 401, Pickering Detailed Design Construction Total	R1817		60,000		200,000								60,000 200,000 260,000	
9	R.R. 31 (Westney Rd.) from Finley Ave. to Harwood Ave., Ajax Detailed Design Construction Total	R1915		200,000		1,000,000								200,000 1,000,000 1,200,000	
10	R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby Detailed Design Construction Total					100,000				125,000			420,000	100,000 545,000 645,000	Phase 1 the overpass Phase 2 Consumers to Dundas
11	R.R. 37 (Finch Ave.) from Altona Rd. to Brock Rd., Pickering Detailed Design Construction Total						500,000			5,100,000				500,000 5,100,000 5,600,000	
12	R.R. 38 (Whites Rd.) from Kingston Rd. (Highway 2) to Finch Ave., Pickering Detailed Design Construction Total					400,000		2,000,000						400,000 2,000,000 2,400,000	
13	R.R. 52 (Thornton Rd.) from King St. to Stellar Dr., Oshawa Detailed Design Construction Total					225,000		1,100,000						225,000 1,100,000 1,325,000	
14	R.R. 53 (Stevenson Rd.) from Highway 401 to Bond St., Oshawa Detailed Design Construction Total	R1819		150,000		1,200,000								150,000 1,200,000 1,350,000	

CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
15	R.R. 53 (Stevenson Rd.) from Bond St. to Rossland Rd., Oshawa Detailed Design Construction Total	R1820	150,000	150,000				3,300,000						300,000 3,300,000 3,600,000	
16	R.R.56 (Farewell St.) from Harbour Rd. to Bloor St., Oshawa Detailed Design Construction Total	R1720	200,000		460,000									200,000 460,000 660,000	
17	R.R.57 (Bowmanville Ave.) from Baseline Rd. to Nash Rd., Bowmanville Detailed Design Construction Total	R1309 R1721	25,000	60,000 325,000	170,000									85,000 495,000 580,000	Phase 1 - Intersection improvements Hwy 2 and Stevens Rd. (R1309) Phase 2 - Baseline Rd. to Hwy No. 2 (R1721)
18	R.R. 58 Manning Rd./Adelaide Ave. interconnection from Garrard Rd. to Thornton Rd., Whitby and Oshawa Detailed Design Construction Total	R0517	100,000			830,000								100,000 830,000 930,000	Looping required for system security, fire protection and to maintain the Region's standard of water quality.
19	R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa Detailed Design Construction Total	R0604	100,000		1,750,000									100,000 1,750,000 1,850,000	
20	R.R. 59 (Gibb St.)/Olive Ave. Extension from Drew St. to Ritson Rd., Oshawa Detailed Design Construction Total	R0116		100,000			350,000							100,000 350,000 450,000	
21	R.R. 60 (Wentworth St.) from Cedar St. to Farewell St., Oshawa (Rehabilitation) Preliminary Work Detailed Design Construction Total	O1704	20,000 130,000	100,000 1,300,000										20,000 230,000 1,300,000 1,550,000	



**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
22	Allowance for water mains in conjunction with the Regional Road Program									1,600,000			2,000,000	1,600,000	5,200,000	
	Sub-total Regional road program		950,000	2,835,000	2,480,000	5,905,000	2,000,000	9,500,000	2,000,000	5,225,000	2,500,000	2,000,000	2,020,000	37,415,000		
23	<b>Area Municipality Road Programs</b>  The repair and replacement of deficient water mains are proposed to be carried out both in conjunction with area municipality road programs (Item No.'s 23A to 23I), 5 projects and independent of road programs in various locations including watermain re-lining program (Item No. 26 & 27) 5 projects. Total 10 projects.															
23A	<b>City of Pickering Road Program (1 Project)</b>  Sandy Beach Rd. from 300 m north of Alyssum St. to 210 m south of Alyssum St.  Works forecast for 2021 to 2029	P2099		100,000										100,000	2,475,000	Replacement of deficient water mains and/or construction of required works in conjunction with the City of Pickering road program.
23B	<b>Town of Ajax Road Program (2 Projects)</b>  Admiral Rd. from Roosevelt Ave. to Parry Rd. Fuller Rd. from Westney Rd. to Clements Rd.  Works forecast for 2021 to 2029	A2099		700,000										700,000	3,250,000	Replacement of deficient water mains and/or construction of required works in conjunction with the Town of Ajax road program.
23C	<b>Town of Whitby Road Program (0 Projects)</b>  Works forecast for 2021 to 2029	W2099		60,000										60,000	5,580,000	Replacement of deficient water mains and/or construction of required works in conjunction with the Town of Whitby

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Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
23D	<u>City of Oshawa Road Program</u> <b>(0 Projects)</b>														0	Replacement of deficient water mains and/or construction of required works in conjunction with the City of Oshawa road program.
	Works forecast for 2021 to 2029				1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	9,900,000		
23E	<u>Municipality of Clarington Road Program</u> <b>(1 Project)</b>	C2099		50,000										50,000		Replacement of deficient water mains and/or construction of required works in conjunction with the Municipality of Clarington road program.
	Brown St. from Queen St. to Victoria St. (detailed design only)															
	Works forecast for 2021 to 2029				370,000	370,000	370,000	370,000	370,000	370,000	370,000	370,000	370,000	3,330,000		
23F	<u>Township of Scugog Road Program</u> <b>(1 Project)</b>	S2099		260,000												Replacement of deficient water mains and/or construction of required works in conjunction with the Township of Scugog road program.
	Major St. from Union Ave. to Earl Cuddle Blvd.															
	Works forecast for 2021 to 2029				130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	1,170,000		
23G	<u>Township of Uxbridge Road Program</u> <b>(0 Projects)</b>														0	Replacement of deficient water mains and/or construction of required works in conjunction with the Township of Uxbridge road program.
	Works forecast for 2021 to 2029				270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	2,430,000		
23H	<u>Township of Brock Road Program</u> <b>(0 Projects)</b>															Replacement of deficient water mains and/or construction of required works in conjunction with the Township of Brock road program.
	Works forecast for 2021 to 2029				250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,250,000		

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Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
23i	Allowance for unknown Water Supply requirements in conjunction with area municipality road programs in various locations	M2003		300,000											300,000	Allowance to provide for unanticipated watermain works in conjunction with area municipality road programs in various locations (Items No. 23A to 23H).
					200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,800,000	
	Sub-total works to rectify identified deficiencies and/or construction of required works(Items 23A to 23i)			1,470,000	3,415,000	3,415,000	4,865,000	3,415,000	3,415,000	3,415,000	3,415,000	3,415,000	3,415,000	3,415,000	33,655,000	
24	<b><u>MTO &amp; Go Transit projects:</u></b> Allowance for watermains in conjunction with the MTO & Go Transit projects				100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	900,000	
25	Watermain replacement in various locations in conjunction with the MTO's bridge work at Simcoe St., Albert St. and Highway 401, Oshawa	D1801	300,000	2,300,000											2,600,000	Works in conjunction with the MTO for the replacement and/or realignment of watermains.
	<b>Sub-total works in conjunction with the MTO and GO Transit projects</b>		300,000	2,300,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	3,500,000	
26	<b>Betterments/Replacement</b> Water works to rectify identified system deficiencies independent of road programs in various locations (4 Projects)	M2099		800,000											800,000	Provision for replacement and/or rehabilitation of deficient watermains independent of road programs in various locations.
	Erosion protection for watermains in various locations	M2015														
	Allowance for final restoration for remedial works constructed in prior years	M2016														
	Remedial works in various locations (Locations and priorities under review)	M2018														
	Preliminary engineering/surveys for future construction of remedial works	M2017														
	Future remedial works in various locations				800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	7,200,000	
27	Rehabilitation of existing watermains in various locations	D2012		2,800,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	29,800,000	Rehabilitation of watermains - lining in various locations.

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
	<b>PICKERING/ AJAX SYSTEM</b>														
28	Replacement of watermain on Kingston Rd. (Highway No. 2) from 240 m east of Delta Blvd. to Merritton Dr. and Dixie Rd. to Liverpool Rd., Pickering Detailed Design Construction Total	D1848	230,000 780,024	710,000										230,000 1,490,024 1,720,024	Will be completed in conjunction with the Bus Rapid Transit. Watermain has reached the end of its useful service life. Phase 1: Delta Blvd. to Merritton Dr. Phase 2: Dixie Rd. to Liverpool Rd.
29	Replacement of a watermain on Zator Ave. from Bem Ave. to Kronso Blvd., Pickering Detailed Design Construction Total	P1901		130,000 847,000										130,000 847,000 977,000	Asset Management Project - watermain has reached the end of its useful service life.
30	Replacement of a watermain on Miriam Rd. from Zator Ave. S/L to Zator Ave. N/L, Pickering Detailed Design Construction Total	P1902		60,000 470,000										60,000 470,000 530,000	Asset Management Project - watermain has reached the end of its useful service life.
31	Replacement of a watermain on Rougemount Dr. from Kingston Rd. to approx. 100 m South, Pickering						155,000							155,000	Asset Management Project - watermain has reached the end of its useful service life.
32	Replacement of a watermain on Brock Rd. from Feldspar Crt. to Clements Rd., Pickering									515,000				515,000	Asset Management Project - watermain has reached the end of its useful service life.
33	Replacement of a watermain on Notion Rd. from Kingston Rd. to approx. 230 m South, Pickering							315,000						315,000	Asset Management Project - watermain has reached the end of its useful service life.
34	Replacement of a watermain on Alliance Rd. from 20 m North of Bayly St. S. to dead-end, Pickering								475,000					475,000	Asset Management Project - watermain has reached the end of its useful service life.
35	Replacement of watermain on Krosno Blvd. from Liverpool Rd. E. to Fanshaw Place, Pickering Detailed Design Construction Total	P2001		100,000		1,015,000								100,000 1,015,000 1,115,000	Asset Management Project - watermain has reached the end of its useful service life.

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Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
36	Replacement of watermain on Pickering Beach Rd. from Foord Rd. to Hewitt Cres., Ajax Detailed Design Construction Total	A1906	80,000 40,000	470,000										80,000 510,000 590,000	Asset Management Project - watermain has reached the end of its useful service life.
37	Watermain extension on Achilles Rd. from Salem Rd. to 100 west of Salem Rd., Ajax Detailed Design Construction Total	A1903	50,000	160,000										50,000 160,000 210,000	Watermain extension required to provide looping and system security
38	Replacement of watermain on Cameron St. from Elizabeth St. to Windsor Dr., Ajax Detailed Design Construction Total	A1801	70,000 330,000	50,000										70,000 380,000 450,000	Asset Management Project - watermain has reached the end of its useful service life.
39	Replacement of watermain on Windsor Dr. from Old Kingston Rd. to Cameron St., Ajax Detailed Design Construction Total	A1802	75,000 375,000	60,000										75,000 435,000 510,000	Asset Management Project - watermain has reached the end of its useful service life.
40	Replacement of watermain on Linton Ave. from Kearney Dr. S. to Old Kingston Rd., Ajax Detailed Design Construction Total	A1904	40,000	15,000 410,000										55,000 410,000 465,000	Asset Management Project - watermain has reached the end of its useful service life.
41	Replacement of watermain on Sherwood Rd. W. from Windsor Dr. to dead-end, Ajax Detailed Design Construction Total	A1905	175,000 180,000	670,000										175,000 850,000 1,025,000	Asset Management Project - watermain has reached the end of its useful service life.
42	Replacement of a watermain on Dowty Rd. from Thomson St. to Hunt St., Ajax							720,000						720,000	Asset Management Project - watermain has reached the end of its useful service life.
43	Replacement of a watermain on Cedar St. from Tudor Ave. W. to Beatty Rd., Ajax								460,000					460,000	Asset Management Project - watermain has reached the end of its useful service life.

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2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
44	Replacement of a watermain on Clements Rd. E. from Burcher Rd. E. to Dryer Dr., Ajax Detailed Design Construction Total						200,000	1,250,000							200,000 1,250,000 1,450,000	Asset Management Project - watermain has reached the end of its useful service life.
<b><u>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</u></b>																
45	Replacement of watermain on Consumers Dr. from 140 m west of Thicksen Rd. S to 110 m east of Sunray St., Whitby								670,000						670,000	Asset Management Project - watermain has reached the end of its useful service life.
46	Replacement of watermain on Centre St. N. from Palmerston Ave. to Rossland Rd. W., Whitby										490,000				490,000	Asset Management Project - watermain has reached the end of its useful service life.
47	Replacement of a watermain on Maria St. from Annes St. to Frances St., Whitby							515,000							515,000	Asset Management Project - watermain has reached the end of its useful service life.
48	Replacement of a watermain on Orchard Cr. from St. Lawrence St. to Orchard Cr., Whitby												315,000		315,000	Asset Management Project - feedermain has reached the end of its useful service life.
49	Replacement of watermain on Greenwood Cres. from McCullough Dr. N/L to McCullough Dr. S/L, Whitby												480,000		480,000	Asset Management Project - feedermain has reached the end of its useful service life.
50	Replacement of watermain on Byron St. North from Willis Ave. to Starr Ave., Whitby												345,000		345,000	Asset Management Project - feedermain has reached the end of its useful service life.
51	Replacement of a feedermain on R.R. 22 (Bloor St.) from Cubert St. to Oxford St., Oshawa												280,000		280,000	Asset Management Project - feedermain has reached the end of its useful service life.
52	Replacement of watermain on R.R. 22 (Bloor St.) from Wilson Rd. to Holland St., Oshawa Detailed Design Construction Total	O2001		60,000 340,000											60,000 340,000 400,000	Asset Management Project - watermain has reached the end of its useful service life.

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Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
53	Replacement of watermain on Holland St. from Veterans Rd. to Bloor St., Oshawa Detailed Design Construction Total	O2002		40,000 220,000										40,000 220,000 260,000	Asset Management Project - watermain has reached the end of its useful service life.
54	Replacement of watermain on R.R. 52 (Thornton Rd.) from South of Bloor St. under the Canadian National Railway, Oshawa									400,000	2,000,000			2,400,000	Asset Management Project - watermain has reached the end of its useful service life.
55	Replacement of watermain on Highway No. 2 (King St. W.) from Garrard Rd. to Thornton Rd., Oshawa							155,000						155,000	Asset Management Project - watermain has reached the end of its useful service life.
56	Replacement of watermain on Highway No. 2 (King St. W.) from Midtown Dr. to Queen St., Oshawa						465,000							465,000	Asset Management Project - watermain has reached the end of its useful service life.
57	Replacement of watermain on Highway No. 2 (King St. E.) from Wilson Rd. to 30 m east of Harmony Creek, Oshawa						850,000							850,000	Asset Management Project - watermain has reached the end of its useful service life.
58	Replacement of a watermain on Highland Ave. from Gliddon Ave. to Athol St., Oshawa Detailed Design Construction Total	O1508	80,000 320,000	90,000										80,000 410,000 490,000	Asset Management Project - watermain has reached the end of its useful service life.
59	Replacement of watermain on Harmony Rd. N. from Adelaide Ave. to 200 m north of Adelaide Ave., Oshawa Detailed Design Construction Total	O1901	50,000 150,000	110,000										50,000 260,000 310,000	
60	Replacement of watermain on Highway No. 2 (King St. E.) from Harmony Rd. to Kingsway College, Oshawa						271,000	1,789,000						2,060,000	Asset Management Project - watermain has reached the end of its useful service life.
61	Replacement of watermain on RR 56 (Farewell St.) from Canadian National Railway to Bloor St., Oshawa Detailed Design Construction Total	O1701	120,000 350,000		150,000									120,000 500,000 620,000	Asset Management Project - watermain has reached the end of its useful service life.

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Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
62	Replacement of watermain on Valencia Rd. from Oxford St. to dead-end, Oshawa				320,000									320,000	Asset Management Project - watermain has reached the end of its useful service life.
63	Replacement of watermain on Olive Ave. from Simcoe St. S. to Drew St., Oshawa Detailed Design Construction Total	O1903	250,000	1,100,000										250,000 1,100,000 1,350,000	Watermain has reached the end of its useful service life.
64	Replacement of feedermain on Ritson Rd. from Oshawa Water Supply Plant Valve Chamber to Kawartha Ave., Oshawa Preliminary Works/Detailed Design Construction Total	O1904	500,000		3,650,000									500,000 3,650,000 4,150,000	Feedermain replacement to be completed in conjunction with valve chamber upgrades.
65	Replacement of a watermain on Grassmere Ave. from West limits to Ritson Rd. S., Oshawa Detailed Design Construction Total	O1905	100,000 545,000	130,000										100,000 675,000 775,000	Watermain has reached the end of its useful service life.
66	Replacement of a watermain on Marland Ave. from Grenfell St. to Park Rd., Oshawa Detailed Design Construction Total	O1907	60,000 340,000	130,000										60,000 470,000 530,000	Watermain has reached the end of its useful service life.
67	Replacement of watermain on Montrave Ave. from Marland Ave. to Gibb St., Oshawa Detailed Design Construction Total	O2003		50,000 315,000										50,000 315,000 365,000	Watermain has reached the end of its useful service life.
68	Replacement of a watermain on Ritson Rd. S. from Kawartha Ave. to Grassmere Ct., Oshawa Detailed Design Construction Total	O2004		150,000		750,000								150,000 750,000 900,000	Asset Management Project - watermain has reached the end of its useful service life.
69	Replacement of a watermain on Oxford St. from Malaga Rd. to Porter St. and Porter St. from Oxford St. to Glen St., Oshawa						620,000							620,000	Asset Management Project - watermain has reached the end of its useful service life.
70	Replacement of a watermain on Ansley Crt. from Rossland Rd. to dead-end, Oshawa										320,000			320,000	Asset Management Project - watermain has reached the end of its useful service life.



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					2021	2022	2023	2024	2025	2026	2027	2028	2029		
71	Replacement of a watermain on Beaupre Ave. from Lakefield St. to Tremblay St., Oshawa												420,000	420,000	Asset Management Project - watermain has reached the end of its useful service life.
72	Replacement of a watermain on Wilson Rd. from Raleigh Ave. to Wentworth St., Oshawa													490,000	Asset Management Project - watermain has reached the end of its useful service life.
<b><u>CLARINGTON (BOWMANVILLE) SYSTEM</u></b>															
73	Replacement of watermain on Port Darlington Rd. from Lake Rd. to Bowmanville Water Supply Plant, Bowmanville														Asset Management Project - watermain has reached the end of its useful service life. Replacement to be completed in conjunction with
	Detailed Design											2,100,000		2,100,000	feedermain works. Construction beyond forecast.
	Total														
74	Replacement of watermain on Baseline Rd. East from Liberty St. to Mearns Ave., Bowmanville														Asset Management Project - watermain has reached the end of its useful service life. Replacement to be completed in conjunction with
	Detailed Design						200,000							200,000	feedermain works.
	Construction								1,050,000					1,050,000	
	Total													1,250,000	
<b><u>CLARINGTON (NEWCASTLE) SYSTEM</u></b>															
75	Replacement of watermain on North St. from Wilmot St. to Concession Rd. 3, Newcastle	C1601													Construction of watermain to service existing and new development. Timing of construction dependent on rate development
	Detailed Design		70,000	300,000										370,000	
	Construction		860,000											2,170,000	
	Total				1,310,000									2,540,000	
76	Replacement of watermain on Amos St. from Toronto St. to Highway 401, Newcastle													260,000	Asset Management Project - watermain has reached the end of its useful service life.
<b><u>UXBRIDGE (UXBRIDGE) SYSTEM</u></b>															
77	Replacement of watermain on First Ave. from Brock St. to Dominion St., Uxbridge													290,000	Asset Management Project - watermain has reached the end of its useful service life.

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					2021	2022	2023	2024	2025	2026	2027	2028	2029		
<b>SCUGOG (PORT PERRY) SYSTEM</b>															
78	Replacement of watermain on Rosa St. from Paxton St. to dead-end, Port Perry						675,000							675,000	Asset Management Project - watermain has reached the end of its useful service life.
79	Replacement of watermain on Bigelow St. from 30 m north of Kellett St. to 100 m north of Kellett St., Port Perry Detailed Design Construction Total	S1902	25,000 50,000	100,000										25,000 150,000 175,000	Asset Management Project - watermain has reached the end of its useful service life.
80	Replacement of watermain on Kellett St./Beech St. from Bigelow St. to 100 m east of Kent St., Port Perry Detailed Design Construction Total	S1903		80,000 465,000										80,000 465,000 545,000	Asset Management Project - watermain has reached the end of its useful service life.
81	Replacement of watermain on Ottawa St. from Queen St. to MacDonald St., Port Perry						310,000							310,000	Asset Management Project - watermain has reached the end of its useful service life.
82	Replacement of watermain on Bay St. from Old Simcoe St. to Bigelow St., Port Perry Detailed Design Construction Total						58,000	385,000						58,000 385,000 443,000	Asset Management Project - watermain has reached the end of its useful service life.
83	Replacement of watermain on Perry St. from North St. to Paxton St., Port Perry								210,000					210,000	Asset Management Project - watermain has reached the end of its useful service life.
<b>BROCK (SUNDERLAND) SYSTEM</b>															
84	Replacement of watermain on Jane St. from Ida St. to 220 m north of Ida St., Sunderland						450,000							450,000	Asset Management Project - watermain has reached the end of its useful service life.
85	Replacement of watermain on Maple St. W. from River St. to dead-end, Sunderland						129,000							129,000	Asset Management Project - watermain has reached the end of its useful service life.

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Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
<b><u>BROCK (CANNINGTON) SYSTEM</u></b>																
86	Replacement of watermain on Cameron St. from 215 m east of McRae St. to 750 m west of R.R. 2 (Simcoe St.), Cannington									250,000	780,000				1,030,000	Asset Management Project - watermain has reached the end of its useful service life.
87	Replacement of watermain on Laidlaw St. from Cameron St. to Park St., Cannington										485,000				485,000	Asset Management Project - watermain has reached the end of its useful service life.
<b><u>BROCK (BEAVERTON) SYSTEM</u></b>																
88	Replacement of watermain on Simcoe St. from Union St. to 480 m south of Union St., Beaverton Detailed Design Construction Total	K1901	100,000		680,000										100,000 680,000 780,000	Asset Management Project - watermain has reached the end of its useful service life.
89	Replacement of watermain on Centre St. from Mara Rd. to James St., Beaverton						495,000								495,000	Asset Management Project - watermain has reached the end of its useful service life.
90	Replacement of watermain on Bay St. from Union St. to Osborne St., Beaverton Detailed Design Construction Total	K1902	80,000		500,000										80,000 500,000 580,000	Asset Management Project - watermain has reached the end of its useful service life.
91	Replacement of watermain on Bay St. from Osborne St. to Mill St., Beaverton Detailed Design Construction Total	K1903	60,000		325,000										60,000 325,000 385,000	Asset Management Project - watermain has reached the end of its useful service life.
92	Replacement of watermain on Church St. from Osborne St. to Mill St., Beaverton Detailed Design Construction Total	K1904	70,000		450,000										70,000 450,000 520,000	Asset Management Project - watermain has reached the end of its useful service life.
93	Replacement of watermain on Mill St. from Church St. to Bay St., Beaverton Detailed Design Construction Total	K1905	60,000		310,000										60,000 310,000 370,000	Asset Management Project - watermain has reached the end of its useful service life.

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS		
					2021	2022	2023	2024	2025	2026	2027	2028	2029				
94	Replacement of watermain on Bay St. from Mill St. to Main St., Beaverton Detailed Design Construction Total	K1906	70,000		500,000										70,000 500,000 570,000	Asset Management Project - watermain has reached the end of its useful service life.	
95	Replacement of watermain on Simcoe St. from Canadian National Railway to John St., Beaverton Detailed Design Construction Total	K2001		100,000		725,000									100,000 725,000 825,000	Asset Management Project - watermain has reached the end of its useful service life.	
96	Replacement of watermain on Simcoe St. from Beaverton Water Supply Plant to 60 m west of Canadian National Railway, Beaverton Detailed Design Construction Total	K2002		100,000		722,000									100,000 722,000 822,000	Asset Management Project - watermain has reached the end of its useful service life.	
97	Replacement of watermain on James St. from Main St. to Centre St./Highland Crt., Beaverton				310,000										310,000	Asset Management Project - watermain has reached the end of its useful service life.	
98	Replacement of watermain on King St. from Mara Rd. to dead-end, Beaverton Detailed Design Construction Total				104,000 120,000	320,000									104,000 440,000 544,000	Asset Management Project - watermain has reached the end of its useful service life.	
99	Allowance for replacement of watermains in various locations						1,059,000	1,048,000		1,654,000	249,000	4,164,000	2,674,000	10,848,000		Asset Management Allowance for replacement of watermains that have reached the end of its useful service life.	
<b><u>CONSTRUCTION OF SERVICES IN UNSERVICED AREAS IN RESPONSE TO REQUESTS OR PETITIONS</u></b>																	
100	Allowance for construction of services in unserviced areas in response to requests or petitions				200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,800,000		Allowance for construction of watermains in unserviced areas in response to requests or petitions.

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
101	Watermain on Range Rd from Hoile Dr. to Lakeridge Rd. , Lakeridge Rd. from Range Rd. to Ontoro Blvd., Ontoro Blvd. from west limit to Lake Range Rd., Ajax Detailed Design Construction Total	A1805	20,000	250,000 1,530,000										270,000 1,530,000 1,800,000	Construction of watermains in response to a petition.
102	Watermain on Fielding Crt. from Westney Rd. to Detailed Design Construction Total	A1907	24,000	60,000 540,000										84,000 540,000 624,000	Construction of watermains in response to a
	Sub-total construction of services in unserviced areas		44,000	2,380,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	4,224,000	
	<b>Sub-total Betterments/Replacement</b>		6,779,024	14,012,000	13,744,000	8,634,000	8,584,000	8,584,000	8,234,000	8,584,000	8,669,000	8,584,000	8,584,000	102,992,024	
	<b>System Expansion</b> <b>PICKERING / AJAX SYSTEM</b>														
103	Zone 1 feedermain on Bayly St. from Toy Ave. to Pickering Beach Rd., Pickering/Ajax Detailed Design Construction Total								1,000,000			18,200,000		1,000,000 18,200,000 19,200,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
104	Zone 2 feedermain on Taunton Rd. from Westney Rd. to 200 m west of Harwood Ave., Ajax Detailed Design Construction Total						300,000	2,600,000						300,000 2,600,000 2,900,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
105	Zone 2 feedermain on William Jackson Dr. & Taunton Rd. from Earl Grey Ave. to Ravenscroft Rd., Pickering/ Ajax Preliminary works/Detailed Design Construction Total	D1904	400,000		500,000									900,000 5,300,000 6,200,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
106	Zone 2 feedermain on Church St. from south side of the hydro right of way to Taunton Rd., Ajax Detailed Design Construction Total						600,000	3,000,000						600,000 3,000,000 3,600,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development. Phase 1: Rossland Rd. to Hydro Right of way Phase 2: Hydro Right of way to Taunton Rd.

CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
<b>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</b>															
107	Zone 1 feedermain from Whitby Water Supply Plant to Thornton Rd., Whitby/Oshawa	W1001													Construction of feedermain to service new development. Timing of construction dependent on the rate of development. Phase 1: Victoria St. from 400 m west of Thickson Rd. Phase 2: Victoria St./Bloor St. from Thickson Rd. to Thornton Rd. Phase 3: Whitby WSP to 400 m west of Thickson Rd.
	Conceptual Planning - Corridor Study		100,000												100,000
	Detailed Design		1,600,000		4,500,000	4,500,000									10,600,000
	Construction		3,000,000		8,000,000	26,600,000									37,600,000
	Total														48,300,000
108	Zone 1 feedermain on Manning Rd. from Anderson St. to Hydro corridor., Whitby							400,000	1,550,000						400,000 1,550,000 1,950,000
	Detailed Design														400,000
	Construction														1,550,000
	Total														1,950,000
109	Zone 1 West Whitby feedermain on Brock St./Victoria St. to Rossland Rd., Whitby											600,000			600,000 600,000 1,200,000
	Environmental Assessment														600,000
	Detailed Design														600,000
	Total														1,200,000
110	Zone 1 feedermain on Bloor St. from Ritson Rd. to Wilson Rd., Oshawa Phase 3 (including new valve chamber east Albert St.)	O1709													Final phase of the Bloor St. feedermain. Phase 1: Albert St. to Ritson Rd., completed Phase 2: Stevenson Rd. to Albert St., completed Phase 3: Ritson Rd. to Wilson Rd., construction to commence
	Detailed Design		900,000												900,000
	Construction		5,100,000	1,500,000											6,600,000
	Total														7,500,000
111	Zone 3 feedermain on Conlin Rd. from Anderson St. to Garrard Rd., Whitby	D1804													Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
	Detailed Design		500,000	150,000											650,000
	Construction			4,000,000											4,000,000
	Total														4,650,000
112	Zone 3 feedermain on Anderson St. from Conlin Rd. to Clair Ave., Whitby														Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
	Detailed Design				500,000										500,000
	Construction					4,700,000									4,700,000
	Total														5,200,000

CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
113	Zone 3 feedermain on Anderson St. and Watford St. from Clair Ave. to Carnwith Dr., Whitby Detailed Design Construction Total						600,000	6,800,000							600,000 6,800,000 7,400,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
114	Zone 4 feedermain from Thickson Rd. Zone 4 water pumping station to Zone 4 Reservoir, Whitby Detailed Design Construction Total	D1905	1,600,000		16,400,000										1,600,000 16,400,000 18,000,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
115	Zone 4 feedermain on Brawley Rd. from Ashburn Rd. to Duffs Rd., Whitby Detailed Design Construction Total	D1907	600,000		5,500,000										600,000 5,500,000 6,100,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
116	Zone 4 feedermain on Ashburn Rd. from Brawley Rd. to Columbus Rd., Whitby Detailed Design Construction Total					700,000		7,100,000							700,000 7,100,000 7,800,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
117	Zone 4 feedermain on Columbus Rd. from Thickson Rd. to Ritson Rd., Whitby/Oshawa Detailed Design Construction Total							1,500,000			15,500,000				1,500,000 15,500,000 17,000,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
118	Watermain on Britannia Ave. from Thornton Rd. to Windfields Farm Dr., Oshawa Detailed Design Construction Total	D1614	80,000	260,000	1,620,000										340,000 1,620,000 1,960,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
119	Watermain modifications in conjunction with the twinning of northwest branch of Harmony Creek sub-trunk sanitary sewer from 200 m south of Beatrice St. to Ritson Rd., Oshawa				150,000										150,000	Allowance for relocation of existing watermain in conjunction with the construction of the sanitary sewer.
120	Zone 3 feedermain on Conlin Rd. from Ritson Rd. to Wilson Rd., Oshawa Detailed Design Construction Total	D1405	300,000				3,925,000								300,000 3,925,000 4,225,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.

CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
121	Zone 4 feedermain on Conlin Rd. from Harmony Rd. to Grandview St., Oshawa Detailed Design Construction Total					300,000	1,300,000								300,000 1,300,000 1,600,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
122	Zone 4 feedermain on Harmony Rd. from Conlin Rd. to New Zone 4 Water Pumping Station, Oshawa Detailed Design Construction Total					900,000	3,750,000								900,000 3,750,000 4,650,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
123	Zone 4 feedermain from Proposed Zone 4 Water Pumping Station at Harmony Reservoir to Proposed Oshawa Zone 4 Reservoir, Oshawa Detailed Design Construction Total	D1908	1,000,000	1,200,000		14,300,000									2,200,000 14,300,000 16,500,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
124	Zone 4 feedermain on Ritson Rd. from Columbus Rd. to Winchester Rd., Oshawa Detailed Design Construction Total							600,000		6,200,000					600,000 6,200,000 6,800,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
125	Zone 4 feedermain on Winchester Rd. from Ritson Rd. to Harmony Rd., Oshawa Detailed Design Construction Total							600,000		5,900,000					600,000 5,900,000 6,500,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
126	Zone 1 feedermain on Baseline Rd. from Prestonvale Rd. to Trulls Rd., Courtice Detailed Design Construction Total	D1805	150,000			2,900,000									150,000 2,900,000 3,050,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
127	Zone 1 feedermain on Prestonvale Rd. from Baseline Rd. to 950 m North of Baseline Rd., Courtice Detailed Design Construction Total	D1909	350,000			1,550,000									350,000 1,550,000 1,900,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.



CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
128	Zone 1 feedermain on easement from Townline Rd. to Prestonvale Rd., Courtice Detailed Design Construction Total	D2005		500,000		2,700,000									500,000 2,700,000 3,200,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
<b><u>CLARINGTON (BOWMANVILLE) SYSTEM</u></b>																
129	Zone 1 feedermain on Lambs Rd. from Hwy No. 2 (King St.) to Zone 1 Liberty Street Reservoir, Bowmanville Environmental Assessment & Detailed Design Construction Total	C1202	3,820,500 11,179,505		12,700,000										3,820,500 23,879,505 27,700,005	Required to accommodate new development. Construction to be completed in conjunction with Liberty St. Zone 1 Reservoir. Feedermain will be completed in phases. Phase 1: Hwy No. 2 to Concession St. Phase 2: Concession St. to reservoir
130	Zone 1 feedermain on Baseline Rd. from R.R. 57 (Martin Rd.) to Liberty St., Bowmanville Detailed Design Construction Total	D1807	400,000		4,650,000										400,000 4,650,000 5,050,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
131	Zone 1 feedermain from Bowmanville Water Supply Plant to Baseline Rd., Bowmanville Environmental Assessment Detailed Design Construction Total					500,000		500,000		8,960,000					500,000 500,000 8,960,000 9,960,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
132	Zone 1 feedermain on Baseline Rd. from Wharf St. to Mearns Ave., Bowmanville Environmental Assessment Detailed Design									520,000		500,000			520,000 500,000 1,020,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development. Construction beyond forecast
133	Zone 2 feedermain on Liberty St. from Concession 3 and Concession 4 to Zone 2 Reservoir, Bowmanville Detailed Design Construction Total						600,000			7,000,000					600,000 7,000,000 7,600,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.

CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
<b>CLARINGTON (NEWCASTLE) SYSTEM</b>															
134	Zone 1 feedermain from Arthur Street reservoir to future Zone 1 water storage facility, Newcastle Detailed Design Construction Total	C1203	250,000		2,650,000									250,000 2,650,000 2,900,000	Feedermain required to connect the proposed reservoir to the water supply system.
135	Zone 1 feedermain on King Ave. (Highway No. 2) from Rudell Rd. to 200 m west of North St., Newcastle Detailed Design Construction Total	D1406	200,000			1,350,000								200,000 1,350,000 1,550,000	To provide looping and security to the existing system.
136	Zone 2 feedermain on Arthur St. from the Zone 2 pumping station to existing Andrew St. pumping station, Newcastle Detailed Design Construction Total	D1605	180,000 120,000		4,100,000									180,000 4,220,000 4,400,000	Construction of feedermain to service new development. Timing of construction dependent on the rate of development.
137	Watermain on Grady Dr. from Whitehand Cres. to North St., Newcastle Detailed Design Construction Total	D2008		100,000	700,000									100,000 700,000 800,000	To provide looping and security to the existing system.
<b>Sub-total System Expansion</b>			31,830,005	7,710,000	81,920,000	52,200,000	17,925,000	3,350,000	21,700,000	16,480,000	34,300,000	500,000	600,000	268,515,005	
<b>Other Linear Infrastructure</b>															
138	Water Meter installation and replacement	D2006		3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	3,100,000	31,000,000	New installation and replacement of meters that have reached the end of their service life.
139	Depots - Replacement of polybutylene service connections in various locations	M2025		100,000										100,000	
140	Replacement of lead service connection in various locations	M2032		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	30,000,000	
141	Replacement of valves	M2026		360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	360,000	3,600,000	
142	Replacement of hydrants	M2027		200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,000,000	
143	Smart City Initiative - water distribution system pilot	D2023		500,000										500,000	
<b>Sub-total Other Linear Infrastructure</b>				5,260,000	4,660,000	4,660,000	4,660,000	4,660,000	8,660,000	8,660,000	8,660,000	8,660,000	8,660,000	67,200,000	

**CONSTRUCTION OF MUNICIPAL SERVICES  
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Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
<b>B</b>	<b>BUILDINGS</b>														
	<u>PICKERING / AJAX SYSTEM</u>														
144	Seaton Zone 4 Reservoir and Zone 5 Water Pumping Station, Pickering Detailed Design Construction Total	D1701	2,900,000 17,100,000	6,700,000										2,900,000 23,800,000 26,700,000	Durham to oversee the detailed design and construction of vertical infrastructure required for the development of the Seaton Community.
145	Expansion of the Ajax Water Supply Plant from 163.6 MLD to 327 MLD, Ajax Environmental Assessment Detailed Design Construction Total	D2010		1,500,000		4,500,000		8,000,000 97,500,000						1,500,000 12,500,000 97,500,000 111,500,000	Construction of future expansion required to accommodate new development. Timing of construction dependent on the rate of development.
146	Ajax Water Supply Plant - expansion joint rehabilitation work Study/Preliminary work/Detailed design Construction Total	D1850	400,000	2,100,000										400,000 2,100,000 2,500,000	
147	Proposed Ajax Zone 1 Water Storage facility - 11 ML, Ajax Transient Study Environmental Assessment Detailed Design Construction Total	D1911	200,000	600,000		600,000		11,100,000						200,000 600,000 600,000 11,100,000 12,500,000	Construction of water storage facility to service new development. Timing of construction dependent on rate of development.
	<u>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</u>														
148	Expansion of the Whitby Water Supply Plant from 109 MLD to 218 MLD, Whitby Preliminary work/ Detailed Design Construction Total	D9944	7,350,000	500,000 2,000,000			12,000,000 137,000,000							19,850,000 139,000,000 158,850,000	Preliminary and detailed design has been initiated. Construction to commence in 2022

**CONSTRUCTION OF MUNICIPAL SERVICES  
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Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
149	Whitby Water Supply Plant - Plant 1 Upgrades and Rehabilitation Works Proposed works to include but not limit to building envelope improvements, filter treatment process upgrades, rehabilitation works for electrical, mechanical and process systems Detailed Design Construction Total						4,900,000			18,000,000					4,900,000 18,000,000 22,900,000	Rehabilitation works to optimize the performance of the asset and service life of the plant.
150	Garrard Rd. Zone 1 Reservoir Expansion from 31 ML to 50 ML and Zone 2 pumping station expansion, Whitby Environmental Assessment and Detailed Design Construction Total				3,800,000			13,350,000							3,800,000 13,350,000 17,150,000	Construction of water storage facility to service new development. Timing of construction dependent on rate of development.
151	Garrard Rd. Zone 3 Water Pumping Station - upgrades, Whitby Detailed Design Construction Total	D1915	260,000		1,200,000										260,000 1,200,000 1,460,000	Upgrades at the pumping are required to receive increased flows from the water supply system.
152	Thickson Rd. Zone 3 Water Pumping Station Expansion to 22.7 MLD, Whitby Detailed Design Construction Total	D2022		1,600,000	10,900,000										1,600,000 10,900,000 12,500,000	Expansion of pumping station required to accommodate new development.
153	Proposed Zone 4 Pumping Station at the Thickson Rd. Reservoir, Whitby Environmental Assessment Detailed Design Construction Total	D1608	350,000 500,000		6,850,000										350,000 500,000 6,850,000 7,700,000	Construction of pumping station to service new development. Timing of construction dependent on rate of development
154	Proposed Whitby Zone 4 Storage Facility - 13 ML, Whitby Environmental Assessment Detailed Design Construction Total	D1505	1,000,000	500,000 1,200,000	11,200,000										1,500,000 1,200,000 11,200,000 13,900,000	

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Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
155	Proposed Whitby Zone 4 & 5 Pumping Station at Duffs Rd. Reservoir and feedermain, Whitby Environmental Assessment Detailed Design Construction Total									500,000	1,200,000		11,100,000	500,000 1,200,000 11,100,000 12,800,000	Construction of pumping station and feedermain to service new development. Timing of construction dependent on rate of development
156	Oshawa Water Supply Plant - break wall modifications  Preliminary works/Detailed Design Construction Total	D2024		100,000	1,000,000									100,000 1,000,000 1,100,000	Modifications are required to the break wall at the back of the plant due to the reoccurrence of high lake water levels.
157	Taunton Rd. Zone 2 Reservoir Expansion from 13 ML to 27 ML, Oshawa Environmental Assessment Detailed Design Construction Total					500,000		1,200,000			11,100,000			500,000 1,200,000 11,100,000 12,800,000	Construction of reservoir required to accommodate new development.
158	Grandview Zone 2 Pumping Station Expansion, Oshawa Environmental Assessment Detailed Design Construction Total					500,000		600,000		5,500,000				500,000 600,000 5,500,000 6,600,000	Pumping station expansion required to accommodate new development.
159	Taunton Rd. Zone 3 Water Pumping Station Expansion from 27 ML to 75 ML, Oshawa Environmental Assessment Detailed Design Total							500,000			690,000			500,000 690,000 1,190,000	Pumping station expansion required to accommodate new development. Construction beyond forecast.
160	Taunton Rd. Zone 4 Water Pumping Station - additional pumps for interim solution Detailed Design Construction Total	D1933	130,000 120,000	750,000										130,000 870,000 1,000,000	Additional pumping capacity for Zone 4 development. This is an interim solution until the infrastructure in Zone 4 has been constructed.
161	Harmony Rd. Zone 3 Reservoir Expansion, Oshawa Environmental Assessment Detailed Design Construction						500,000		500,000	3,550,000				500,000 500,000 3,550,000 4,550,000	Construction of reservoir required to accommodate new development.

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Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
162	Proposed Zone 4 Pumping Station at the Harmony Rd. Reservoir, Oshawa	D1507													Construction of pumping station required to accommodate new development.
	Environmental Assessment		500,000											500,000	
	Detailed Design		250,000	250,000										500,000	
	Construction				6,700,000									6,700,000	
	Total													7,700,000	
163	Proposed Oshawa Zone 4 Water Storage Facility - 16 ML, Oshawa	D1609													Timing of expansion dependent on rate of development.
	Environmental Assessment		1,000,000	1,000,000										2,000,000	
	Detailed Design			2,200,000										2,200,000	
	Construction					10,700,000								10,700,000	
	Total													14,900,000	
164	Proposed Zone 5 Pumping Station at Harmony Rd. Reservoir and feedermain, Oshawa	D2013													Construction of pumping station required to accommodate new development.
	Environmental Assessment			500,000										500,000	
	Detailed Design			500,000										500,000	
	Construction					9,000,000								9,000,000	
	Total													10,000,000	
165	Hortop Water Pumping Station - pumping station replacement, Oshawa	D2015													The pumping station has reached the end of it's
	Preliminary works - study to assess pumping station needs in Oshawa			100,000										100,000	useful life.
	Detailed Design				1,000,000									1,000,000	A pumpage needs study to be completed
	Construction					9,300,000								9,300,000	first to assess the
	Total													10,300,000	pumpage needs of the station.
<b><u>CLARINGTON (BOWMANVILLE) SYSTEM</u></b>															
166	Bowmanville Water Supply Plant Expansion from 36 MLD to 55 MLD	D2017													Timing of expansion dependent on rate of development.
	Environmental Assessment			500,000										500,000	
	Detailed Design						1,500,000							1,500,000	
	Construction							39,200,000						39,200,000	
	Total													41,200,000	
167	Proposed Liberty Street Zone 1 Reservoir 11 ML and demolition of the existing elevated tank	D1106													Construction of future reservoir required to accommodate new development. Upon completion the existing elevated tank will be decommissioned.
	Update Environmental Assessment and Detailed Design		1,200,000											1,200,000	
	Construction				11,900,000									11,900,000	
	Total													13,100,000	

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
168	Concession St. Water Pumping Station Expansion - increasing pump capacity Detailed design Construction Total	D1916	600,000			5,200,000									600,000 5,200,000 5,800,000	Pumping capacity upgrade to accommodate future water supply demands.
169	Proposed Zone 2 Pumping Station at the Zone 1 Reservoir Detailed Design Construction Total	D1917	550,000			8,260,000									550,000 8,260,000 8,810,000	Construction of pumping station required to accommodate development.
170	Bowmanville Zone 2 reservoir expansion Environmental Assessment Detailed Design Construction Total						600,000		1,000,000		6,750,000				600,000 1,000,000 6,750,000 8,350,000	Timing of expansion dependent on rate of development.
<b><u>CLARINGTON (NEWCASTLE) SYSTEM</u></b>																
171	Proposed Zone 1 Reservoir 11 ML and feedermain Environmental Assessment Detailed Design Construction Total	D1202	1,200,000	3,000,000		8,410,000									1,200,000 3,000,000 8,410,000 12,610,000	Construction of future reservoir required to accommodate new development. Timing of construction dependent on rate of development.
172	Proposed Zone 2 Water Pumping Station Environmental Assessment Detailed Design Construction Total	D1610	500,000 500,000			6,950,000									500,000 500,000 6,950,000 7,950,000	
173	Proposed Zone 2 reservoir Environmental Assessment Detailed Design Construction Total							1,500,000			600,000		5,200,000		1,500,000 600,000 5,200,000 7,300,000	Construction of future reservoir required to accommodate new development. Timing of construction dependent on rate of development.
<b><u>CLARINGTON (ORONO) SYSTEM</u></b>																
174	Proposed Zone 1 Orono Storage Facility (1 ML) Environmental Assessment Detailed Design Construction Total							900,000			500,000		4,250,000		900,000 500,000 4,250,000 5,650,000	Construction of future water storage facility required to accommodate new development. Timing of construction dependent on rate of development.

CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
<b><u>SCUGOG (PORT PERRY) SYSTEM</u></b>															
175	Alternative Water Supply Source Environmental Assessment and Detailed Design Construction Total	S0102	4,530,000			18,900,000								4,530,000 18,900,000 23,430,000	Environmental Assessment and engineering required to identify a new water supply source to provide improved water quality.
176	Port Perry Water Storage Facility - additional capacity 2.8 ML Detailed Design Construction Total				1,000,000		11,450,000							1,000,000 11,450,000 12,450,000	New Reservoir to provide increased system security and capacity for new development
<b><u>SCUGOG (GREENBANK) SYSTEM</u></b>															
177	Greenbank Water Supply System - Replacement of Municipal Well 1 Detailed Design Construction Total				300,000		1,000,000							300,000 1,000,000 1,300,000	
<b><u>UXBRIDGE (UXBRIDGE) SYSTEM</u></b>															
178	New Well and Pumphouse, Uxbridge Environmental Assessment Detailed Design Construction Total	D1508	500,000		1,750,000	3,000,000								500,000 1,750,000 3,000,000 5,250,000	Provision for the commencement of the Class Environmental Assessment future construction of a new well and pumphouse.
179	Expansion of Quaker Hill Reservoir from 2.8 ML to 5.2 ML Detailed Design Construction				500,000	3,450,000								500,000 3,450,000 3,950,000	Required to provide storage capacity for new development.
<b><u>BROCK (SUNDERLAND) SYSTEM</u></b>															
180	New Well and Pumphouse with standby power Study/Environmental Assessment/ Detailed Design Construction Total	K0601	1,250,000	490,000 510,000		3,500,000								1,740,000 4,010,000 5,750,000	Required to provide system security and capacity for new development.
181	New Well and Pumphouse with standby power Environmental Assessment and Detailed Design Total										1,500,000			1,500,000	Required to provide system security and capacity for new development. Construction beyond forecast.



**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
182	Additional Water Storage from 1.4 ML to 3.0 ML Environmental Assessment												500,000	500,000	Required to provide system security and capacity for new development. Detailed design and construction beyond forecast.
	<b><u>BROCK (CANNINGTON) SYSTEM</u></b>														
183	New Well and Pumphouse Environmental Assessment and Detailed Design Construction Total	K0701	1,000,000 750,000	5,000,000										1,000,000 5,750,000 6,750,000	Required to provide security to the system and capacity for new development. Environmental Assessment completed. Detailed Design has commenced.
184	New Well and Pumphouse with standby power Environmental Assessment and Detailed Design Total										1,000,000		500,000	1,500,000	Required to provide security to the system and capacity for new development. Construction beyond forecast.
185	Additional Water Storage from 1.4 ML to 3.0 ML Environmental Assessment and Detailed Design											500,000	500,000	1,000,000	Required to provide security to the system and capacity for new development. Construction beyond forecast.
	<b><u>BROCK (BEAVERTON) SYSTEM</u></b>														
186	Beaverton Water Supply Plant Expansion Environmental Assessment									500,000				500,000	Timing of expansion dependent on rate of development. Detailed design and construction beyond forecast.
187	Additional Water Storage from 2 ML to 4.8 ML Environmental Assessment Detailed Design Total									500,000		500,000		500,000 500,000 1,000,000	Required to provide security to the system and capacity for new development. Construction beyond forecast.
	<b><u>REGION WIDE</u></b>														
188	Water Storage Facilities inspections, condition assessment and rehabilitation works	D1918	150,000	465,000	150,000	150,000	150,000	150,000	150,000	500,000	150,000	150,000	150,000	2,315,000	Asset Management Project - Water storage facility condition assessments and rehabilitation works
189	Wellhead protection at Regional well sites	M0101		800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	8,000,000	Monitoring and studies required to identify aquifer protection zones for the existing and future well systems operated by the Region. Implementation of some Wellhead Protection Study findings. Includes Permit to Take Water requirements.

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
190	Water Supply Plants - Asset Management Remediation and Rehabilitation works						5,000,000			5,000,000	5,000,000	5,000,000	5,000,000	25,000,000	Allowance for the future remediation and rehabilitation of assets at the water supply plants.
	<b>Sub-total Buildings</b>		44,790,000	32,865,000	87,870,000	219,400,000	33,250,000	123,750,000	59,000,000	36,140,000	8,650,000	29,000,000	6,950,000	681,665,000	
<b>C</b>	<b>MACHINERY AND EQUIPMENT</b>														
	<b>PICKERING / AJAX SYSTEM</b>														
191	Regional Environmental Laboratory Upgrades and ventilation associated works, Pickering	Y1602													
	Preliminary /Detailed Design		600,000											600,000	
	Construction		3,600,000	450,000										4,050,000	
	Total													4,650,000	
	York Region's Share		2,100,000	225,000											
	Durham Region's Share		2,100,000	225,000											
	Total		4,200,000	450,000											
192	Finch Ave. Elevated Water Storage Tank - Recoating	D1919													
	Detailed Design		120,000											120,000	Preventative maintenance work
	Construction				500,000									500,000	
	Total													620,000	
193	Rosebank Rd. Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power														
	Preliminary Works/Detailed Design									150,000	150,000			300,000	Preventative maintenance work Emergency control and power supply systems required to operate systems during communications and electrical power failures.
	Construction											2,000,000		2,000,000	
	Total													2,300,000	
194	Cherrywood Water Pumping Station upgrades - pumps and feedermain, Pickering	D2018													
	Detailed Design			300,000										300,000	System upgrades will help meet average day demand during maintenance works and provide system secure and backup.
	Construction					1,500,000								1,500,000	
	Total													1,800,000	

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS		
					2021	2022	2023	2024	2025	2026	2027	2028	2029				
195	Cherrywood Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power Preliminary Works/Detailed Design Construction Total								150,000	150,000		2,000,000				300,000 2,000,000 2,300,000	Preventative maintenance work Emergency control and power supply systems required to operate systems during communications and electrical power failures.
196	Ajax Water Supply Plant - Chlorine line replacement Detailed Design Construction Total	D2019		60,000 400,000												60,000 400,000 460,000	The chlorine line has reached the end of it's useful life and require replacement.
<b><u>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</u></b>																	
197	Whitby Water Supply Plant - Chlorine line replacement Detailed Design Construction Total	D2020		60,000 400,000												60,000 400,000 460,000	The chlorine line has reached the end of it's useful life and require replacement.
198	Grandview Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power Preliminary Works/Detailed Design Construction Total	D1809	100,000		150,000											250,000 2,100,000 2,350,000	Emergency control and power supply systems required to operate systems during communications and electrical power failures.
199	Oshawa Water Supply Plant - Valve Chamber Upgrades Detailed Design Construction Total	D1923	100,000		600,000											100,000 600,000 700,000	Valve replacement and interconnection capability.
200	Oshawa Water Supply Plant -Header & Backwash valve replacement and associated piping rehabilitation/replacement Detailed Design Construction Total	D1924	400,000		1,700,000											400,000 1,700,000 2,100,000	The backwash valves have reached the end of their useful life and require replacement.

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
201	Oshawa Water Supply Plant - Replacement of the Motor Control Centre Detailed Design Construction Total											240,000	1,000,000	240,000 1,000,000 1,240,000	The motor control centres have reached the end of their useful life and require replacement.
202	Oshawa Water Supply Plant - upgrading the uninterrupted power supply (UPS) Detailed Design Construction Total	D1811	150,000 150,000		730,000									150,000 880,000 1,030,000	Emergency control and power supply systems required to operate systems during communications and electrical power failures.
203	Waverly Rd. Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power Preliminary Works/Detailed Design Construction Total	D1837	100,000		200,000	2,000,000								300,000 2,000,000 2,300,000	Preventative maintenance work Emergency control and power supply systems required to operate systems during communications and electrical power failures.
204	Taunton Rd. Water Pumping Station and Reservoir - station improvements and replacement Preliminary works/Detailed Design Construction Total	D2021		100,000		700,000								100,000 700,000 800,000	Based on the completed condition assessment.
<b>CLARINGTON (BOWMANVILLE) SYSTEM</b>															
205	Bowmanville Water Supply Plant - disinfection upgrades Detailed Design Construction Total	D1927	100,000	700,000										100,000 700,000 800,000	Disinfection improvements to comply with new chlorine contact times.
206	Bowmanville Water Supply Plant - replacement of the standby power and upgrading the uninterrupted power supply (UPS) Detailed Design/UPS upgrades Construction Total	D1814	850,000		1,700,000									850,000 1,700,000 2,550,000	Emergency control and power supply systems required to operate systems during communications and electrical power failures.
207	Concession St. Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power Preliminary Works/Detailed Design Construction Total	D1816	100,000		200,000	2,000,000								300,000 2,000,000 2,300,000	Emergency control and power supply systems required to operate systems during communications and electrical power failures.

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
	<b><u>CLARINGTON (NEWCASTLE) SYSTEM</u></b>															
208	Newtonville Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power Preliminary Works/Detailed Design Construction Total						150,000	150,000	2,000,000						300,000 2,000,000 2,300,000	Emergency control and power supply systems required to operate systems during communications and electrical power failures.
	<b><u>CLARINGTON (ORONO) SYSTEM</u></b>															
209	Orono Water Supply System - upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch, Standby power and uninterrupted power supply (UPS) Preliminary Works/Detailed Design Construction Total				150,000	150,000		2,500,000							300,000 2,500,000 2,800,000	Emergency control and power supply systems required to operate systems during communications and electrical power failures.
210	Mill St. Water Pumping Station - Station upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power Preliminary Works/Detailed Design Construction Total					150,000	150,000	2,000,000							300,000 2,000,000 2,300,000	Emergency control and power supply systems required to operate systems during communications and electrical power failures.
	<b><u>SCUGOG (GREENBANK) SYSTEM</u></b>															
211	Greenbank Water Supply System - upgrades to the uninterrupted power supply (UPS) Preliminary works/Detailed design						500,000								500,000	Emergency control and power supply systems required to operate systems during communications and electrical power failures.
	<b><u>SCUGOG (PORT PERRY) SYSTEM</u></b>															
212	Port Perry Groundwater Supply System Municipal Well No. 6 - Upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch and Standby power Preliminary Works/Detailed Design Construction Total	D1818	250,000		2,300,000										250,000 2,300,000 2,550,000	Emergency control and power supply systems required to operate systems during communications and electrical power failures.

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
<b><u>SCUGOG (BLACKSTOCK) SYSTEM</u></b>															
213	Blackstock Water Supply System - upgrades to Municipal Well No. 7	D1838													Works to be completed in phases. Phase 1: Rehabilitation works on Municipal Well No. 7 Phase 2: Rehabilitation works on the pumphouse, electrical upgrades and replacement of process piping and header.
	Detailed Design		300,000											300,000	
	Construction		1,200,000	700,000										1,900,000	
	Total													2,200,000	
<b><u>BROCK (SUNDERLAND) SYSTEM</u></b>															
214	Sunderland Standpipe Water Storage Tank - Recoating	D1839													Preventative maintenance work
	Detailed Design		100,000											100,000	
	Construction				650,000									650,000	
	Total													750,000	
<b><u>BROCK (BEAVERTON) SYSTEM</u></b>															
215	Beaverton Water Supply Plant - upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch, Standby power and uninterrupted power supply (UPS)	D1819													Emergency control and power supply systems required to operate systems during communications and electrical power failures.
	Preliminary Works/Detailed Design		250,000											250,000	
	Construction				2,600,000									2,600,000	
	Total													2,850,000	
<b><u>REGION WIDE</u></b>															
216	Automatic Bulk Water Dispensing System	D1717													Required to provide a secure, efficient and accessible method of supplying bulk water to customers.
	Detailed Design		240,000	500,000	500,000	200,000	200,000							1,640,000	
	Construction		1,100,000	2,700,000	3,600,000	1,900,000	3,900,000	2,000,000						15,200,000	
	Total													16,840,000	
217	Fuel Tank Compliance Inspection/Detailed Design	D1613													Upgrades to the diesel generators and tanks to meet regulatory requirements.
	Construction		350,000		100,000									350,000	
	Total		2,050,000											2,150,000	
														2,500,000	
<b>Sub-Total Machinery and Equipment</b>			12,210,000	6,370,000	15,030,000	12,000,000	6,900,000	6,150,000	150,000	2,150,000	390,000	3,000,000	0	64,350,000	

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
<b>D</b>	<b>IT INFRASTRUCTURE</b>														
218	Plant SCADA system projects, to link plants north and plants east to the Ajax Water Supply Plant SCADA system	D0502	21,480,000			5,000,000		5,000,000						31,480,000	Implementation of a single centralized SCADA system for all WSP's to improve operational efficiency and monitor MOECC compliance requirements.
	<b>Sub-total IT Infrastructure</b>		21,480,000	0	0	5,000,000	0	5,000,000	0	0	0	0	0	31,480,000	
<b>E</b>	<b>ALLOWANCES AND OTHER PROVISIONS</b>														
219	Regional Water Supply Master Planning Study for the Regional Official Plan Review	D1421	900,000				800,000					800,000		2,500,000	Required to review and identify water supply infrastructure requirements to service new development as identified in the review of the Regional Official Plan.
220	Emergency Planning Updating Requirements	D1307	175,000		100,000									275,000	Allowance for updating required to ensure optimal performance during an emergency.
221	Asset Condition Assessments - Reports for the Vertical Assets	D1419	801,000	112,000	200,000	300,000	300,000	300,000	300,000	300,000	215,000	300,000	300,000	3,428,000	Provincial requirement to assess conditions of all assets and develop a rehabilitation strategy.
222	Asset Condition Assessment/ investigation on transmission pipe	D1420	600,000	100,000	100,000	150,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,350,000	Allowance for assessments on large transmission pipes.
223	Master planning energy management				200,000				200,000				200,000	600,000	Study to identify a long term strategy for implementation of an efficient and effective energy policy.
224	Allowance for acquisition of easements	M2001		150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,500,000	Allowance for acquisition of easements for existing water mains.
225	Allowance for engineering studies	M2007		150,000	300,000	150,000	300,000	150,000	300,000	150,000	300,000	150,000	300,000	2,250,000	Allowance for miscellaneous engineering studies
226	Allowance for CTC Source Water Protection Plan related to the Lake Ontario Collaborative	D1718	300,000	300,000	300,000	3,400,000			300,000		500,000		500,000	5,600,000	Required to implement the policies related to the approved CTC Source Protection Plan. Terms of reference and implementation plan under development.

**CONSTRUCTION OF MUNICIPAL SERVICES  
2020 CAPITAL BUDGET AND NINE YEAR FORECAST**

Item No.	PROJECT DESCRIPTION	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
227	Preliminary engineering	66143		100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	Allowance for preliminary engineering carried out in advance of budget provision.
228	Allowance for sundry extensions as per Council policy	M2008		15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	150,000	Regional share for sundry extensions.
229	Allowance for unknown requirements	M2009		100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	Allowance for unanticipated works.
230	Allowance for land severance review and drawing requirements	M2062		100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	Allowance for works required to produce drawings for the location of stubbed services in the field.
231	Allowance for Regional share for works in conjunction with residential subdivision development	M2010		1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	14,600,000	Regional share for watermain related to existing, new residential and new non-residential development, in conjunction with new residential subdivisions.
232	Allowance for Regional share for works in conjunction with non-residential development	M2011		400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	4,000,000	Allowance for possible Regional share in design and construction of watermain for non-residential development.
233	Well interference works	M2014		400,000	400,000	400,000	400,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	7,600,000	Allowance for construction of well interference works in accordance with Regional policy.
	Sub-total Allowances and Other Provisions		2,776,000	3,387,000	3,925,000	7,525,000	3,525,000	3,975,000	4,625,000	3,975,000	5,340,000	3,975,000	4,825,000	47,853,000	
	TOTAL GROSS EXPENDITURE		121,115,029	76,209,000	213,144,000	318,839,000	81,809,000	168,484,000	107,884,000	84,729,000	72,024,000	59,234,000	35,154,000	1,338,625,029	



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**2020 Business Plan**

**Works - Sanitary Sewerage System**

**Major Services & Activities**

**Sanitary Sewerage System Maintenance**

- ◆ Maintain and operate the Region's Sewage Collection Systems to ensure safe and efficient treatment of effluent.
- ◆ Prevent public health hazards and inconvenience through uninterrupted services.
- ◆ Installation and servicing (cleaning and repairing) of sanitary sewer service connections and maintenance holes.
- ◆ Maintain all programs for compliance with Ministry of the Environment, Conservation and Parks Acts and Regulations.
- ◆ Enforcement of the Sewer-Use By-law 55-2013.

**Water Pollution Control Plants - Treatment and Services**

- ◆ Plan, design and construct sanitary sewerage infrastructure.
- ◆ Protect the water environment.
- ◆ Operate and maintain all water pollution control plants and pumping stations for the Region, and treatment of sanitary sewage ensuring effluent meets or exceeds all Ministry of the Environment, Conservation and Parks and regulatory discharge requirements.
- ◆ Operate and maintain the Regional Environmental Laboratory for the water and wastewater monitoring needs of the Regions of Durham and York, area municipalities and private clients.
- ◆ Operate and maintain the Duffin Creek WPCP for Durham and York Regions.

**The following information highlights the Department's focus on the Durham Region Strategic Plan:**

**Strategic Goal C.2 - Protect, enhance and where appropriate restore significant water resources, agricultural land, natural heritage and environmentally sensitive areas.**

<b>Key Deliverables</b>	<b>Responsibility - Co-Lead</b>
◆ Continue to protect the Region's drinking water supply (source water protection)	



**2020 Business Plan**

**Works - Sanitary Sewerage System**

**Strategic Goal C.4 - Demonstrate leadership in sustainable asset management and environmentally friendly municipal practices.**

<b>Key Deliverables</b>	<b>Responsibility - Co-Lead</b>
<ul style="list-style-type: none"> <li>◆ Plan, forecast and manage provision, operation, maintenance and capital costs for existing and new infrastructure</li> </ul>	

<b>Performance Targets</b>
<ul style="list-style-type: none"> <li>◆ Condition indices</li> <li>◆ Annual investment as a percentage of inventory value</li> <li>◆ Quantity and quality of available serviced land</li> <li>◆ Life cycle indicators</li> <li>◆ Non-revenue water as a percentage of total water treated</li> </ul>

**Strategic Goal C.5 - Work more closely with local municipalities and other partners to manage growth through effective, progressive and integrated long-term planning.**

<b>Key Deliverables</b>	<b>Responsibility - Co-Lead</b>
<ul style="list-style-type: none"> <li>◆ Identify opportunities to improve the planning and approval process to promote alignment and integration with area municipalities</li> <li>◆ Continue to offer planning support to local municipalities to ensure compliance with Regional and Provincial plans</li> </ul>	

**Strategic Goals**

<b>Goal</b>	<b>Description</b>	<b>Responsibility - Support</b>
<b>A.1</b>	Propel the business and investment climate forward in Durham Region to enable more local employment.	
<b>B.3</b>	Cultivate strong, safe and secure communities and healthy workplaces.	
<b>C.1</b>	Invest in efforts to mitigate and adapt to climate change to build resiliency across the region.	
<b>C.5</b>	Works more closely with local municipalities and other partners to manage growth through effective, progressive and integrated long-term planning.	
<b>D.1</b>	Deliver Regional services in a financially prudent and sustainable manner.	
<b>D.2</b>	Foster awareness of Regional programs and services.	
<b>D.3</b>	Improve communication and collaboration across the Region and in particular with local municipalities.	
<b>D.4</b>	Promote a culture of openness and encourage public engagement in governance and decision making.	
<b>D.5</b>	Demonstrate accountability and transparency by measuring performance and reporting on results.	
<b>D.6</b>	Invest in the organization by attracting and retaining a skilled and diverse workforce.	
<b>D.7</b>	Focus resources on continuous improvement and innovation.	

## PROGRAM SUMMARY



### 2020 Business Plan

### Works - Sanitary Sewerage System

By Program	2019		2020		
(\$,000's)	Estimated	Approved	Base	Program	Approved
	Actuals	Budget	Budget	Change	Budget
<b>Expense Programs</b>	\$	\$	\$	\$	\$
<b>OPERATIONS:</b>					
1 Cleaning, Repairs and Maintenance Holes	2,183	2,112	1,957	77	2,034
2 Sewer Connections	2,394	2,363	2,143	356	2,499
3 Depot Operations	2,972	3,177	2,965	242	3,207
<b>Subtotal</b>	<b>7,549</b>	<b>7,652</b>	<b>7,065</b>	<b>675</b>	<b>7,740</b>
<b>PLANTS:</b>					
4 WPCPs and Pumping Stations	22,459	23,039	22,954	802	23,756
5 Duffin Creek WPCP					
(a) Management Committee	2,779	2,904	2,822	-	2,822
(b) Duffin Creek Plant	25,703	26,241	25,369	1,793	27,162
(c) Duffin Creek Tech Support	260	219	216	2	218
(d) Duffin Creek Administration	2,762	2,762	2,846	-	2,846
(e) Duffin Creek Facility	2,124	1,595	1,635	684	2,319
(f) York Contributions	(27,176)	(27,109)	(26,418)	(2,026)	(28,444)
Total Duffin Creek WPCP	6,452	6,612	6,470	453	6,923
<b>Subtotal</b>	<b>28,911</b>	<b>29,651</b>	<b>29,424</b>	<b>1,255</b>	<b>30,679</b>
<b>COMMON SERVICES:</b>					
6 Regional Environmental Laboratory	59	-	-	168	168
7 Engineering and Staff Support	5,056	5,831	5,808	148	5,956
8 Facilities Management	7,088	7,070	6,894	1,374	8,268
9 Administration	318	318	320	2	322
10 Headquarters Shared Cost	1,073	1,073	1,100	-	1,100
<b>Subtotal</b>	<b>13,594</b>	<b>14,292</b>	<b>14,122</b>	<b>1,692</b>	<b>15,814</b>
<b>Total Operating Program Expenses</b>	<b>50,054</b>	<b>51,595</b>	<b>50,611</b>	<b>3,622</b>	<b>54,233</b>

**PROGRAM SUMMARY**



**2020 Business Plan**

**Works - Sanitary Sewerage System**

By Program (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>11 Tangible Capital Assets:</b>					
1S Duffin Creek WPCP - New	585	585	-	7	7
2S - Replacement	895	895	940	-	940
3S Environmental Lab - New	12	12	-	-	-
4S - Replacement	160	160	586	-	586
5S Facilities Management - New	110	110	-	514	514
6S - Replacement	1,058	1,058	476	2,399	2,875
7S Fleet/Equipment - New	570	570	-	1,086	1,086
8S - Replacement	661	661	492	661	1,153
9S Construction of Municipal Services	21,584	21,584	21,584	867	22,451
<b>Tangible Capital Assets Subtotal</b>	<b>25,635</b>	<b>25,635</b>	<b>24,078</b>	<b>5,534</b>	<b>29,612</b>
<b>Tangible Capital Assets Revenue &amp; Recoveries:</b>					
10S Duffin Creek WPCP TCA Revenue from York	(1,113)	(1,113)	(742)	(5)	(747)
11S Environmental Lab - TCA Revenue from York	(19)	(19)	(293)	-	(293)
12S Environmental Lab - Recovery Reserve/Reserve Fund	(135)	(135)	-	-	-
13S Facilities Management - Recovery Reserve / Reserve Fund	-	-	-	(702)	(702)
<b>Tangible Capital Assets Revenue &amp; Recoveries Subtotal</b>	<b>(1,267)</b>	<b>(1,267)</b>	<b>(1,035)</b>	<b>(707)</b>	<b>(1,742)</b>
<b>Net Tangible Capital Assets</b>	<b>24,368</b>	<b>24,368</b>	<b>23,043</b>	<b>4,827</b>	<b>27,870</b>
<b>Net Program Expenses</b>	<b>74,422</b>	<b>75,963</b>	<b>73,654</b>	<b>8,449</b>	<b>82,103</b>
<b>Summary of Increase (Decrease)</b>			<b>(\$2,309)</b>	<b>-3.04%</b>	<b>\$6,140</b> <b>8.08%</b>



**2020 Business Plan**

**Works - Sanitary Sewerage System**

**Summary of Base Budget Changes**

	\$	Comments
Salaries & Benefits	84	Economic increases
Salaries & Benefits	128	Annualization (2.286 positions)
Salaries & Benefits	57	2020 Position upgrades (3.49 positions)
Operating Expenses	(38)	Remove one-time items
Operating Expenses	43	Utility increases
Operating Expenses	(58)	Property tax decreases
Operating Expenses	74	Inflationary adjustments
Various	(920)	Line-by-Line review
Fees & Service Charges	14	Remove one-time funding
Minor Assets & Equipment	62	Add one-time items (various)
Major Repairs & Renovations	(430)	Remove one-time items (various)
Tangible Capital Assets	(1,325)	Remove one-time items (various)
	<u>(2,309)</u>	

## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Works - Sanitary Sewerage System

\$ 000's

#### Maintenance Operations

##### Cleaning, Repairs and Maintenance Holes

- ◆ Increases to reflect actual costs and forecasted requirements related to maintenance hole repairs (\$35k), sewer cleaning by hydrojet (\$33k) and various other cleaning, repairs and maintenance hole activities (\$9k) 77

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**77**

##### Sewer Connections

- ◆ Adjustments to reflect actual costs and forecasted requirements related to connection repairs (\$351k) and connection cleaning (\$5k) 356

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**356**

##### Depot Operations

- ◆ Proposed new position representing 0.330 FTEs, to start July 1st, 2020:
  - ◆ One (1) Vehicle and Equipment Trainer to support the expanded role in providing training to vehicle and equipment operators in all Regional departments and divisions. This position is shared with General Tax and Water Supply (Annualized impact is \$42k) (0.330 FTE) 21
- ◆ Increase in temporary pay to address peak workload demands 29
- ◆ One-time increase for consulting related to Workforce Scheduling implementation 50
- ◆ Increase in complaint investigation to reflect actual costs and forecasted requirements 20
- ◆ Increase in technical training based on forecasted requirements 25
- ◆ Increase in telephone hardware (\$5k) and network upgrades (\$5k) related to the implementation of the Enterprise Maintenance Management System 10
- ◆ Increase in visual maintenance hole inspections to reflect actual costs and forecasted requirements 36
- ◆ Adjustments to reflect actuals costs and forecasted requirements in various accounts related to Depot Operations activities 51

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**242**

#### Water Pollution Control Plants and Pumping Stations

##### Newcastle WPCP

- ◆ Increase in allocation for SCADA systems support 11
- ◆ Increase in minor assets and major repairs and renovations for new chemical flow meters 16
- ◆ Adjustments to reflect actual costs and forecasted requirements in various accounts 5

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**32**

##### Courtice WPCP

- ◆ Increase in sludge haulage and disposal costs due to flow diversion from Harmony Creek WPCP during construction 192
- ◆ Increase in allocation for SCADA systems support 4
- ◆ Increase in disinfection chemicals due to increased disinfection required resulting from wet weather events 14
- ◆ Increase in minor assets and major repairs and renovations for new chemical flow meters 62
- ◆ Adjustments to reflect actual costs and forecasted requirements in various accounts (4)

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**268**



## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Works - Sanitary Sewerage System

\$ 000's

#### Water Pollution Control Plants and Pumping Stations (continued)

##### Harmony Creek WPCP

◆ Increase in coagulation chemicals and water usage due to changes in treatment processes	75
◆ Increase in allocation for SCADA systems support	6
◆ Adjustments to reflect actual costs and forecasted requirements in various accounts	4
	<b>85</b>

##### Corbett Creek WPCP

◆ Increase in sewage dumping fees due to the end of construction activities on site	(53)
◆ Decrease in sludge disposal costs based on review of forecasted requirements	(50)
◆ Increase in allocation for SCADA systems support	12
◆ Increase in allocation of biosolids to Corbett Creek based on review of plant's share of costs	8
◆ Increase in minor assets and major repairs and renovations for new chemical flow meters	48
◆ Adjustments to various other accounts to reflect actual costs and forecasted requirements	5
	<b>(30)</b>

##### Uxbridge, Scugog, Brock WPCP

◆ Increase in sludge disposal and haulage costs as part of odour reduction requirements on Lake Simcoe	123
◆ Decrease in coagulation chemical requirements for one plant and two lagoons due to process enhancements	(40)
◆ Increase in allocation for SCADA systems support	8
◆ Increase in allocation of biosolids to Corbett Creek based on review of plant's share of costs	11
◆ Increase in minor assets and major repairs and renovations for clarifier gearbox replacement (\$47k) and sand filter cleaning (\$80k)	127
◆ Adjustments to various accounts to reflect actual costs and forecasted requirements	31
	<b>260</b>

##### Port Darlington WPCP

◆ Increase in sludge disposal and biosolids costs due to end of plant expansion construction, resulting in increased waste	36
◆ Increase in program materials and supplies based on review of historical actuals and forecasted requirements	24
◆ Increase in allocation for SCADA systems support	13
◆ Increase in disinfection chemicals based on review of historical actuals and forecasted requirements	11
◆ Adjustments to various accounts to reflect actual costs and forecasted requirements	13
	<b>97</b>

##### Pumping Stations

◆ Increase in overtime costs resulting from an increase in wet weather events requiring additional flow monitoring, and to maintain station operations	44
◆ Increase in communications requirements related to SCADA	8
◆ Increase in allocation for SCADA systems support	2
◆ Increase in fuel oil requirements for generators based on historical actuals	7
◆ Increase in program materials and supplies for the re-building of pumps	25
◆ Adjustments to various accounts to reflect actual costs and forecasted requirements	4
	<b>90</b>

<b>Total Water Pollution Control Plants and Pumping Stations</b>	<b>802</b>
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## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Works - Sanitary Sewerage System

\$ 000's

#### Duffin Creek WPCP

<ul style="list-style-type: none"> <li>◆ Removal of full-time gapping due to reductions to vacancies</li> <li>◆ Increase in temporary pay and overtime based on review of actuals and forecasted requirements</li> <li>◆ Increase in program materials required for increased usage of incinerator reactors (\$150k) and increased volume of lab supplies (\$35k)</li> <li>◆ Increase in coagulation chemicals due to higher costs for new ferric chloride chemical</li> <li>◆ Decrease in waste disposal costs due to process improvements</li> <li>◆ Decrease in Laboratory costs due to efficiencies and end of the Phosphorus Reduction Action Plan (PRAP) study sampling</li> <li>◆ Increase in sludge disposal recovery due to increased volumes from other WPCPs</li> <li>◆ Increase in facility maintenance costs based on review of historical actuals and forecasted requirements, including electrical materials, pest control services, elevator maintenance and other facility requirements</li> <li>◆ Increase in equipment maintenance repairs for the Influent Pumping Station based on review of actual costs to repair and inspect the pumps</li> <li>◆ Increase in minor asset costs, including: anti-virus software and HMI programming related to SCADA (\$50k), asset inventory update and audit (\$40k), and digester cleanout and repairs (\$350k).</li> <li>◆ Increase in major repairs and renovations, including: Lighting retrofits and repairs required to maintain facility (\$554k), and plant repairs for incineration reactor #2 (\$200k), yard hydrants (\$100k) and gallery gate (\$50k).</li> <li>◆ Increase in allocation for SCADA systems support</li> <li>◆ Adjustments to various accounts to reflect actual costs and forecasted requirements</li> <li>◆ Increase in recovery from York Region due to increase in operating expenses</li> </ul>	<p>160</p> <p>82</p> <p>185</p> <p>850</p> <p>(150)</p> <p>(150)</p> <p>(104)</p> <p>130</p> <p>75</p> <p>440</p> <p>904</p> <p>51</p> <p>6</p> <p>(2,026)</p> <hr style="border: 1px solid black;"/> <p><b>453</b></p>
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#### Regional Environmental Laboratory

<ul style="list-style-type: none"> <li>◆ Re-allocation of a portion of one (1) position to Technical Support (-0.140 FTEs)</li> <li>◆ Decrease in external revenues and recoveries from Durham plants based on historical actuals and forecasted testing activities</li> <li>◆ Increase in software maintenance costs for Laboratory Information Management System (LIMS)</li> <li>◆ Increase in technical materials and supplies due to increase in volume of samples</li> <li>◆ Increase in equipment maintenance repairs based on historical actuals and forecasted requirements</li> <li>◆ Adjustments to various accounts to reflect actual costs and forecasted requirements</li> <li>◆ Increase in recovery from York Region due to increase in net operating costs</li> </ul>	<p>(24)</p> <p>290</p> <p>15</p> <p>25</p> <p>15</p> <p>15</p> <p>(168)</p> <hr style="border: 1px solid black;"/> <p><b>168</b></p>
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## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Works - Sanitary Sewerage System

\$ 000's

#### Engineering and Staff Support

<ul style="list-style-type: none"> <li>◆ Proposed new positions representing 0.514 FTE, to start July 1st, 2020:                             <ul style="list-style-type: none"> <li>◆ Two (2) SWAT Labourers in Construction Management Services to aid with watermain disinfection, sampling and pressure testing for all subdivisions and regional capital construction. This position will be shared with General Tax and Water Supply (Annualized impact is \$50k) (0.514 FTEs)</li> </ul> </li> <li>◆ Transfer of one (1) vacant position from Real Estate to Facilities Management (-0.220 FTEs)</li> <li>◆ Reallocation of a portion of position from Regional Environmental Laboratory to Technical Support (0.140 FTEs)</li> <li>◆ Position upgrades in Construction and Environmental Services to reflect changing work requirements</li> <li>◆ Increase in temporary staff costs to reflect actual costs and forecasted requirements</li> <li>◆ Increase in technical materials &amp; supplies for Technical Support, based on review of forecasted requirements</li> <li>◆ Increase in extraordinary maintenance for plant equipment to reflect actual costs and forecasted requirements</li> <li>◆ Adjustments to reflect actual costs and forecasted requirements in various accounts</li> </ul>	26 (26) 24 21 60 21 50 (28) <hr style="border: 1px solid black;"/> <b>148</b>
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#### Facilities Management

<ul style="list-style-type: none"> <li>◆ Proposed new position representing 0.386 FTE, to start July 1, 2020:                             <ul style="list-style-type: none"> <li>◆ One (1) Senior Project Coordinator to provide support in the delivery of facility related capital projects driven by growth and asset management requirements. This position is shared with General Tax, Water Supply and Solid Waste Management (Annualized impact is \$45.5k) (0.386 FTEs)</li> </ul> </li> <li>◆ Transfer of one (1) vacant position from Engineering and Staff Support - Real Estate (0.220 FTEs)</li> <li>◆ Increase to reflect re-distribution of resources across funds based on a review of activities undertaken by the Design, Construction and Asset Management section:</li> <li>◆ Upgrades of various existing positions to reflect changing workforce requirements</li> <li>◆ Increase for temporary staff to support the Regional Headquarters optimization project</li> <li>◆ Increase in grounds maintenance costs at various locations based on historical actuals</li> <li>◆ Increase in snow removal costs at various locations based on historical actuals</li> <li>◆ Increase in janitorial services based on new standing agreements</li> <li>◆ Increase in hoist maintenance and repair costs based on historical actuals</li> <li>◆ Increase in pest control services for additional requirements for geese and seagull control</li> <li>◆ Increase for minor assets and equipment, UPS battery replacement at the Oshawa/Whitby Depot, and hoist reconditioning at the Sunderland Depot</li> <li>◆ Increase for major building renovations, including repair of pre-cast joints at the Corbett Creek WPCP (\$196k), epoxy coating for vehicle storage areas at the Ajax and Sunderland Depots (\$46k), front gate repairs at the Courtice WPCP (\$10k), control joint repairs at the Uxbridge WPCP (\$45k) and other minor repairs and renovations at multiple regional facilities (\$70k).</li> <li>◆ Adjustments to reflect actual costs and forecasted requirements in various accounts</li> </ul>	23 26 529 56 91 23 185 38 21 13 12 367 (10) <hr style="border: 1px solid black;"/> <b>1,374</b>
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## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Works - Sanitary Sewerage System

\$ 000's

#### Administration

♦ Adjustments to reflect actual costs and forecasted requirements in various accounts	2
	2

#### Tangible Capital Assets

♦ Program changes include the acquisition of new assets and the replacement of assets related to depot operations, plant and facilities management, fleet, equipment and construction projects, including the construction of municipal services. Refer to capital schedules for detailed information	4,827
	4,827

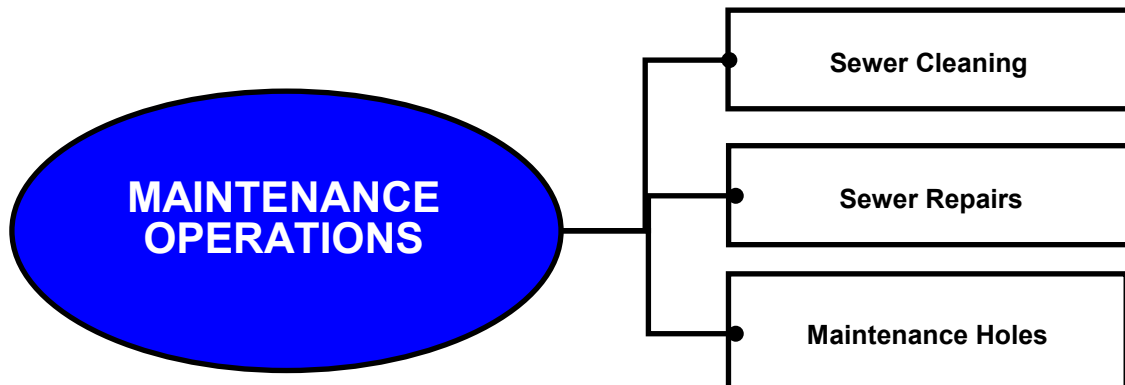
	<b>Total Program Changes</b>	8,449
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# PROGRAM 1 CLEANING, REPAIRS AND MAINTENANCE HOLES



## 2020 Program Detail

## Works - Sanitary Sewerage System



### Purpose:

- ◆ To maintain and operate the Region's Sanitary Sewerage Collection Systems in an efficient and cost effective manner for the Region's approximately 175,252 customers
- ◆ To prevent public health hazards and inconvenience through interruption of service

### Description of Program Activities:

- ◆ The Region maintains and operates 2,140 km of gravity sanitary sewer and 64 km of forcemains
- ◆ 1,728 km of sanitary sewers up to 300 mm in size are cleaned by hydrojet once every 2 years
- ◆ 249 km of sanitary sewers from 350 mm to 600 mm in size are cleaned once every 4 years
- ◆ 151 km of sanitary sewers over 600 mm in size are cleaned as required
- ◆ There are 92 siphons in the Region which are cleaned once every year either by flushing or dragging operations
- ◆ Damaged sanitary sewers are repaired at spot locations as required
- ◆ Maintenance holes are budgeted to have major repairs or minor repairs made as required

### Description of Program Resources:

- ◆ Resources delivering program services are shared with all activity based maintenance activities in the Water Supply, Sanitary Sewerage and General Tax operating budgets. Resource utilization is charged to the activity based programs through maintenance work orders

### Performance Measurements:

- ◆ Sanitary sewers up to 300 mm in size are cleaned by hydrojet once every 2 years
- ◆ Sanitary sewers from 350 mm to 600 mm in size are cleaned once every 4 years
- ◆ Sanitary sewers over 600 mm in size are cleaned as required
- ◆ Syphons cleaned once each year

# PROGRAM 1 CLEANING, REPAIRS AND MAINTENANCE HOLES



## 2020 Program Detail

## Works - Sanitary Sewerage System

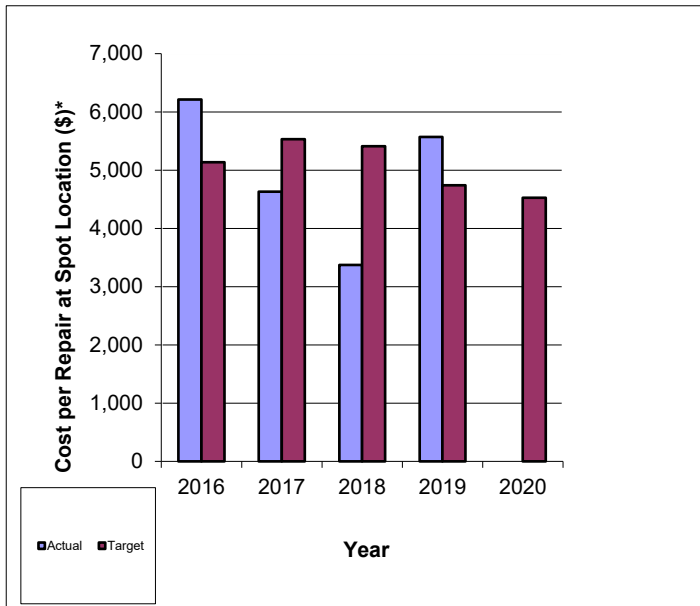
### Units of Service:

- a) Cleaning by Hydrojet (km)
- b) Repairs at Spot Locations
- c) Major Maintenance Hole Repairs

Target 2019	Proj Actual 2019	Target 2020
935	1,207	989
24	20	24
517	553	555

Cleaning of sanitary sewers by hydrojet is accomplished by Regional forces and by contracted services. All problem areas are cleaned using Regional forces. Cleaning by hydrojet to meet service levels is accomplished through contracted services.

### Efficiency:



#### Cost per Repair at Spot Location

*Cost per unit includes all labour, materials and equipment utilized in the repair activities.*

*\*Restated*

**PROGRAM 1  
CLEANING, REPAIRS AND MAINTENANCE HOLES**



**2020 Program Detail**

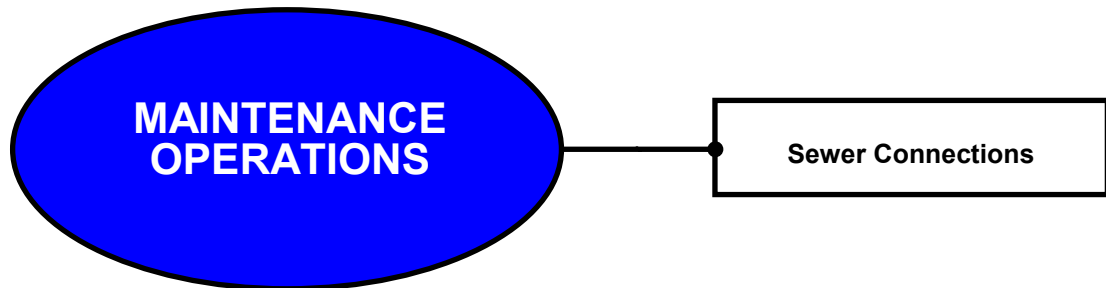
**Works - Sanitary Sewerage System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
Cleaning by Hydrojet	866	744	677	33	710
Cleaning any Method Non- Programmed	333	329	312	9	321
Rehab - Repair - Contractor	107	136	109	-	109
Repairs at Spot Location	105	137	123	-	123
Major Maintenance Hole Repair	772	766	736	35	771
<b>Net Program Expenses</b>	<b>2,183</b>	<b>2,112</b>	<b>1,957</b>	<b>77</b>	<b>2,034</b>



**2020 Program Detail**

**Works - Sanitary Sewerage  
System**



**Purpose:**

- ◆ To maintain and operate the Region's Sanitary Sewerage Collection Systems in an efficient and cost effective manner for the Region's approximately 175,252 customers
- ◆ To prevent public health hazards and inconvenience through interruption of service

**Description of Program Activities:**

- ◆ Cleaning of sanitary sewer service connections serving residential and non-residential buildings
- ◆ New sanitary sewer service connections installed as required
- ◆ Sanitary sewer service connections repaired or replaced as required

**Description of Program Resources:**

- ◆ Resources delivering program services are shared with all activity based maintenance activities in the Water Supply, Sanitary Sewerage and General Tax operating budgets. Resource utilization is charged to the activity based programs through maintenance work orders



## PROGRAM 2 SEWER CONNECTIONS



### 2020 Program Detail

### Works - Sanitary Sewerage System

#### Performance Measurements:

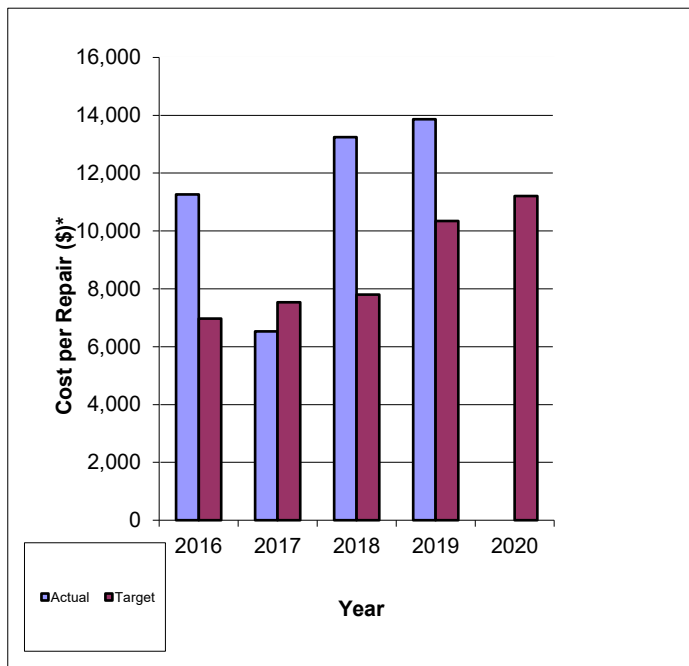
- ◆ Service connections are cleaned and repaired/replaced as stipulated in By-law #90-2003

#### Units of Service:

- a) Unscheduled Cleaning of Sewer Connections
- b) Connection Repairs

Target 2019	Proj Actual 2019	Target 2020
1,055	1,090	1,013
397	146	238

#### Efficiency:



#### Cost Per Connection Repair

*Cost per unit includes all labour, materials and equipment utilized in the repair activities.*

*\*Restated*

**PROGRAM 2  
SEWER CONNECTIONS**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

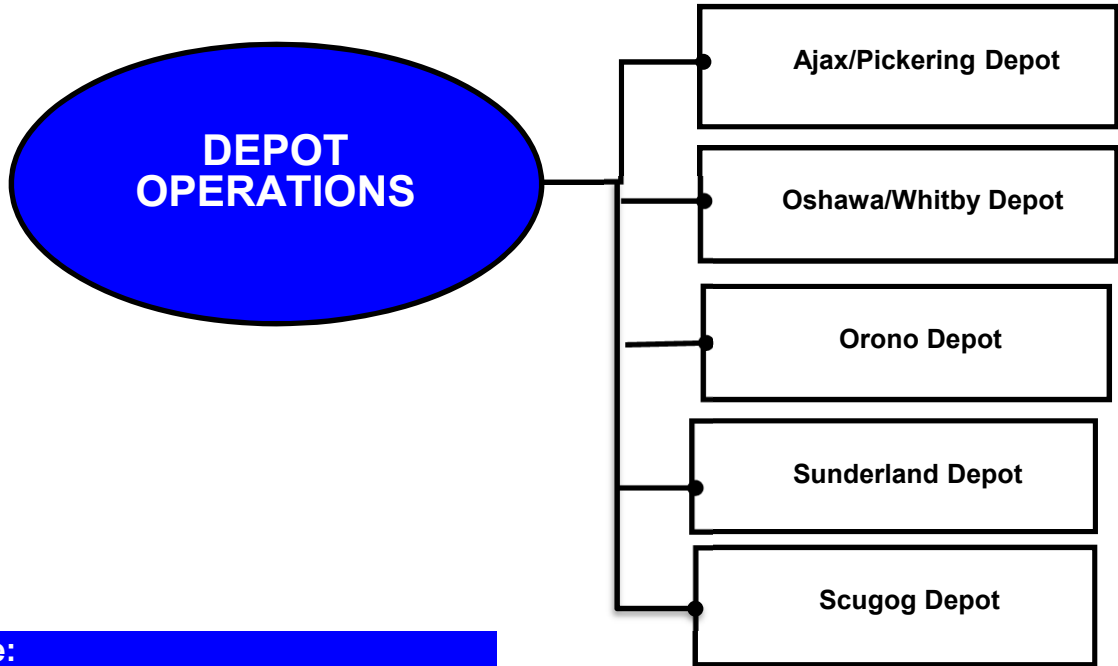
<b>Detailed Cost of Program:</b> (\$,000's)	<b>2019</b>		<b>2020</b>		
	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
Connection Cleaning	375	371	345	5	350
Connection Repair	2,019	1,992	1,798	351	2,149
<b>Net Program Expenses</b>	<b>2,394</b>	<b>2,363</b>	<b>2,143</b>	<b>356</b>	<b>2,499</b>

# PROGRAM 3 DEPOT OPERATIONS



## 2020 Program Detail

## Works - Sanitary Sewerage System



### Purpose:

- ◆ To provide leadership and direction to the Works depots, effectively monitoring and managing activities including sewer cleaning, sewer repairs, sewer connections, and maintenance hole repairs, ensuring compliance with approved budgets and policy guidelines

### Description of Program Activities:

- ◆ To provide administrative support for the completion of maintenance activities (i.e. sewer cleaning, repairs, maintenance holes, sewer connections)
- ◆ Maintain proper inventory records

### Description of Program Resources:

- ◆ 2020 Full Time Employees                      8.500
- ◆ 2019 Full Time Employees                      8.170 Restated

One (1) Vehicle and Equipment Trainer to support the expanded role in providing training to vehicle and equipment operators in all Regional departments and divisions. This position is shared with General Tax and Water Supply (0.330 FTEs)

**PROGRAM 3  
DEPOT OPERATIONS**



**2020 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Operating Expenses</b>					
Personnel Expenses	906	1,027	1,032	48	1,080
Payroll Maintenance Management - Charge	1,852	1,344	1,280	80	1,360
Payroll Maintenance Management - Recovery	(1)	(3)	(2)	-	(2)
<b>Net Personnel Expenses</b>	<b>2,757</b>	<b>2,368</b>	<b>2,310</b>	<b>128</b>	<b>2,438</b>
Personnel Related	122	177	171	28	199
Communications	66	84	78	5	83
Supplies	62	303	264	12	276
Computer Maintenance & Operations	-	-	-	5	5
Materials & Services	1	60	51	-	51
Buildings & Grounds Operations	60	60	60	7	67
Equipment Maintenance & Repairs	1	1	1	-	1
Vehicle Operations	4	223	145	-	145
Professional Services	-	-	-	50	50
Leased Facilities Expenses	4	4	4	-	4
Minor Assets & Equipment	2	2	-	-	-
Major Repairs & Renovations	9	9	-	3	3
<b>Operating Expenses Subtotal</b>	<b>3,088</b>	<b>3,291</b>	<b>3,084</b>	<b>238</b>	<b>3,322</b>
<b>Transfers from Related Entities</b>					
NextGen Charges	13	12	12	1	13
<b>Transfers from Related Entities Subtotal</b>	<b>13</b>	<b>12</b>	<b>12</b>	<b>1</b>	<b>13</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Recovery from Fleet	(105)	(105)	(110)	3	(107)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(105)</b>	<b>(105)</b>	<b>(110)</b>	<b>3</b>	<b>(107)</b>
<b>Gross Operating Expenses</b>	<b>2,996</b>	<b>3,198</b>	<b>2,986</b>	<b>242</b>	<b>3,228</b>

**PROGRAM 3  
DEPOT OPERATIONS**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Tangible Capital Assets</b>					
New	494	494	-	449	449
Replacement	8	8	1	20	21
<b>Total Tangible Capital Assets</b>	<b>502</b>	<b>502</b>	<b>1</b>	<b>469</b>	<b>470</b>
<b>Total Expenses</b>	<b>3,498</b>	<b>3,700</b>	<b>2,987</b>	<b>711</b>	<b>3,698</b>
<b>Revenues</b>					
Fees & Service Charges	(10)	(11)	(11)	-	(11)
Sundry Revenue	(14)	(10)	(10)	-	(10)
<b>Total Revenues</b>	<b>(24)</b>	<b>(21)</b>	<b>(21)</b>	<b>-</b>	<b>(21)</b>
<b>Net Program Expenses</b>	<b>3,474</b>	<b>3,679</b>	<b>2,966</b>	<b>711</b>	<b>3,677</b>

\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	3,677
Less: Tangible Capital Assets	(470)
Net Operating Program Expenses Per Program Summary	<u>3,207</u>

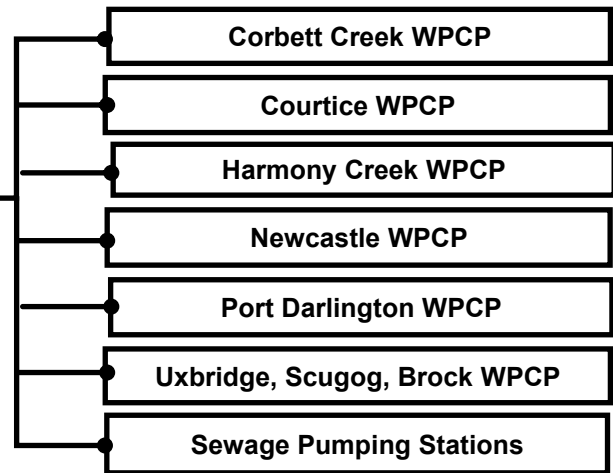
# PROGRAM 4

## WATER POLLUTION CONTROL PLANTS AND PUMPING STATIONS



### 2020 Program Detail

### Works - Sanitary Sewerage System



#### Purpose:

- ◆ To treat sanitary sewage and ensure that it meets or exceeds all Ministry of Environment, Conservation and Parks (MECP) discharge requirements
- ◆ To operate and maintain the 51 sanitary sewage pumping stations that service the City of Pickering, Town of Ajax, Town of Whitby, the City of Oshawa, the Municipality of Clarington, and the Townships of Uxbridge, Scugog, and Brock
- ◆ To comply with all MECP Environmental Compliance Approvals as issued for each facility
- ◆ To maintain a safe work environment by strictly adhering to all Ministry of Labour and Regional Departmental and Corporate safety policies

#### Description of Program Activities:

- ◆ Operate and maintain the Water Pollution Control Plants and Pumping Stations to treat flows
- ◆ Collect and analyze samples
- ◆ Administer programs required within the MECP Environmental Compliance Approval
- ◆ Maintain a scheduled cleaning and maintenance program based on each pumping station's flow and needs
- ◆ Keep a record of flows and monitor future requirements
- ◆ Maintain and upgrade mechanical and electrical equipment as required
- ◆ Take samples for lab analysis for the purpose of sewer-use monitoring
- ◆ Implement new technology to increase reliability and ensure fail safe operation at all times and to ensure a continued cost effective operation

#### Description of Program Resources:

- ◆ 2020 Full Time Employees                      56.750
- ◆ 2019 Full Time Employees                    56.750

**PROGRAM 4**

**WATER POLLUTION CONTROL PLANTS AND PUMPING STATIONS**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

**Performance Measurements:**

**Water Pollution Control Plants**

- ◆ Cost per megalitre of sanitary sewage treated
- ◆ Percentage of flow by-passing secondary treatment
- ◆ Number of emergency callouts

**Pumping Stations**

- ◆ Maintain a scheduled cleaning and maintenance program based on each station's flow and needs
- ◆ Keep a record of flows and monitor future requirements
- ◆ Maintain and upgrade mechanical and electrical equipment as required
- ◆ Take samples for lab analysis for the purpose of sewer use monitoring
- ◆ Implement new technology to increase reliability and ensure fail safe operation at all times and to ensure a continued cost effective operation

**Units of Service:**

**Water Pollution Control Plants**

- a) Sanitary Sewage Treated at all Plants (measured per megalitre)
- b) Percentage of Flow By-passing Secondary Treatment
- c) Number of Emergency Callouts

Target 2019	Proj Actual 2019	Target 2020
48,500	47,585	48,500
0	0	0
330	315	270

**Pumping Stations**

- a) Number of Emergency Callouts
- b) Number of Overflows

Target 2019	Proj Actual 2019	Target 2020
190	230	190
0	0	0

PROGRAM 4  
WATER POLLUTION CONTROL PLANTS AND PUMPING STATIONS

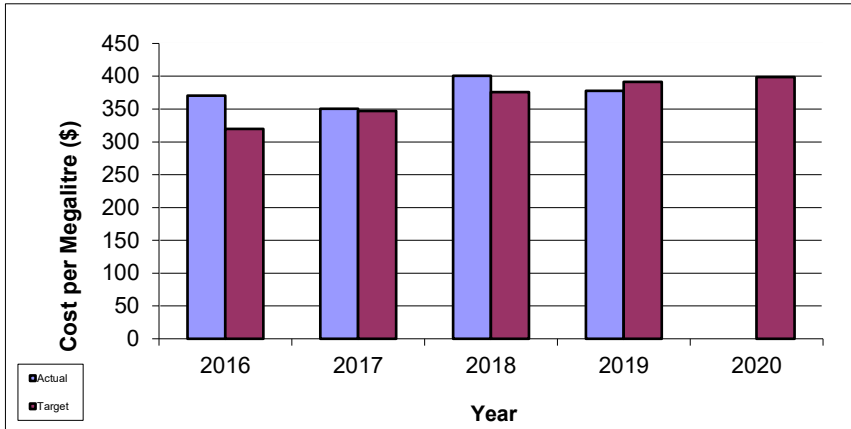


2020 Program Detail

Works - Sanitary Sewerage System

Efficiency:

Cost per Megalitre of Treated Sanitary Sewerage at WPCPs





**PROGRAM 4  
WPCPs AND PUMPING STATIONS**



**2020 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	6,818	7,109	7,173	69	7,242
Personnel Related	152	141	141	20	161
Communications	142	120	118	15	133
Supplies	1,085	1,054	1,027	69	1,096
Utilities	4,976	5,433	5,567	41	5,608
Chemicals	1,682	1,527	1,503	29	1,532
Computer Maintenance & Operations	75	141	140	8	148
Materials & Services	219	222	211	(8)	203
Equipment Maintenance & Repairs	703	879	879	-	879
Vehicle Operations	327	328	313	6	319
Contracted Services	2,917	2,450	2,450	189	2,639
Minor Assets & Equipment	-	-	68	64	132
Major Repairs & Renovations	283	227	-	189	189
<b>Operating Expenses Subtotal</b>	<b>19,379</b>	<b>19,631</b>	<b>19,590</b>	<b>691</b>	<b>20,281</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works - SCADA Group Charge	398	681	692	56	748
Works - Regional Environmental Lab Charge	330	405	344	-	344
Works - Sludge Disposal Charge	2,234	2,160	2,160	104	2,264
Works - Biosolids Services Charge	232	278	281	-	281
Works - Ajax WSP - Labour Charge	83	86	78	3	81
Recovery DRPS - Maple Grove Pumping Station	(5)	(5)	(6)	1	(5)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>3,272</b>	<b>3,605</b>	<b>3,549</b>	<b>164</b>	<b>3,713</b>
<b>Gross Operating Expenses</b>	<b>22,651</b>	<b>23,236</b>	<b>23,139</b>	<b>855</b>	<b>23,994</b>

**PROGRAM 4  
WPCPs AND PUMPING STATIONS**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Tangible Capital Assets</b>					
New	-	-	-	384	384
Replacement	482	482	473	370	843
<b>Total Tangible Capital Assets</b>	<b>482</b>	<b>482</b>	<b>473</b>	<b>754</b>	<b>1,227</b>
<b>Total Expenses</b>	<b>23,133</b>	<b>23,718</b>	<b>23,612</b>	<b>1,609</b>	<b>25,221</b>
<b>Revenues</b>					
Fees & Service Charges	(188)	(178)	(178)	(53)	(231)
Rents	(3)	(4)	(5)	-	(5)
Sundry Revenue	(1)	(15)	(2)	-	(2)
<b>Total Revenues</b>	<b>(192)</b>	<b>(197)</b>	<b>(185)</b>	<b>(53)</b>	<b>(238)</b>
<b>Net Program Expenses</b>	<b>22,941</b>	<b>23,521</b>	<b>23,427</b>	<b>1,556</b>	<b>24,983</b>

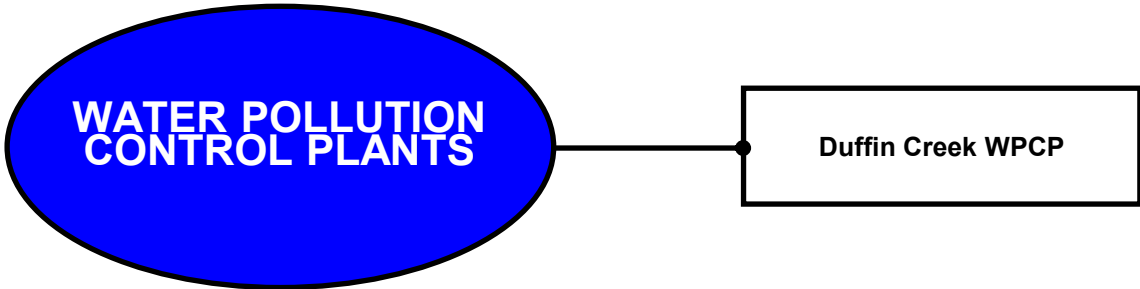
\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	24,983
Less: Tangible Capital Assets	<u>(1,227)</u>
Net Operating Program Expenses Per Program Summary	<u><u>23,756</u></u>



**2020 Program Detail**

**Works - Sanitary Sewerage  
System**



**Purpose:**

- ◆ To provide safe and cost effective wastewater treatment for customers in Durham Region (Ajax/Pickering) and customers in York Region which meets or exceeds all Ministry of Environment, Conservation and Parks (MECP) discharge requirements

**Description of Program Activities:**

- ◆ To operate and maintain the Duffin Creek WPCP for Durham and York Regions
- ◆ The program involves the cost efficient, safe and environmentally responsible operation and maintenance of one of Ontario's largest water pollution control plants
- ◆ Administer programs required within the MECP Certificate of Approval / Environmental Compliance Approval
- ◆ To provide training and a safe work environment for staff

**Description of Program Resources:**

- ◆ 2020 Full Time Employees      81.530
- ◆ 2019 Full Time Employees      81.530



**2020 Program Detail**

**Works - Sanitary Sewerage System**

**Performance Measurements:**

- ◆ Cost per megalitre of sanitary sewage treated
- ◆ Number of emergency callouts
- ◆ Number of days annually, during which the quality of a measured effluent parameter was superior to the stated objective as identified in the MECP Certificate of Approval for this facility
- ◆ Number of days annually, during which the quality of a measured effluent parameter was superior to the stated compliance limit as identified in the MECP Certificate of Approval for this facility
- ◆ Cost of operation of the facility

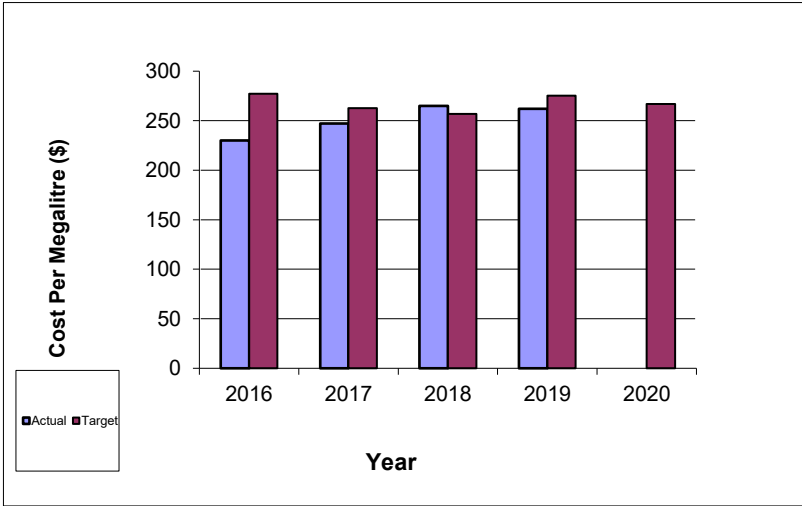
**Units of Service:**

- a) Sanitary Sewage Treated at the Plant (measured per megalitre)
- b) Number of Emergency Callouts

Target 2019	Proj Actual 2019	Target 2020
23,000	23,500	23,750
150	150	150

**Efficiency:**

**Cost per Megalitre of Treated Sanitary Sewerage**



**PROGRAM 5  
SUMMARY DUFFIN CREEK WPCP**



**2020 Business Plan**

**Works - Sanitary Sewerage  
System**

By Program	2019		2020		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
Duffin Creek WPCP					
(a) Management Committee	2,779	2,904	2,822	-	2,822
(b) Duffin Creek Plant	25,703	26,241	25,369	1,793	27,162
(c) Duffin Creek Tech Support	260	219	216	2	218
(d) Duffin Creek Administration	2,762	2,762	2,846	-	2,846
(e) Duffin Creek Facility	2,124	1,595	1,635	684	2,319
(f) York Contributions	(27,176)	(27,109)	(26,418)	(2,026)	(28,444)
<b>Total Duffin Creek WPCP</b>	<b>6,452</b>	<b>6,612</b>	<b>6,470</b>	<b>453</b>	<b>6,923</b>

**PROGRAM 5A  
DUFFIN CREEK MANAGEMENT COMMITTEE**



**2020 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	45	43	43	-	43
Personnel Related	1	2	2	-	2
Supplies	-	1	1	-	1
Professional Services	25	150	150	-	150
Financial Expenses	306	306	306	-	306
Property Taxes	2,425	2,425	2,344	-	2,344
<b>Operating Expenses Subtotal</b>	<b>2,802</b>	<b>2,927</b>	<b>2,846</b>	<b>-</b>	<b>2,846</b>
<b>Gross Operating Expenses</b>	<b>2,802</b>	<b>2,927</b>	<b>2,846</b>	<b>-</b>	<b>2,846</b>
<b>Total Expenses</b>	<b>2,802</b>	<b>2,927</b>	<b>2,846</b>	<b>-</b>	<b>2,846</b>
<b>Revenues</b>					
Rents	(23)	(23)	(24)	-	(24)
Revenue from York	(1,839)	(1,912)	(1,856)	-	(1,856)
<b>Total Revenues</b>	<b>(1,862)</b>	<b>(1,935)</b>	<b>(1,880)</b>	<b>-</b>	<b>(1,880)</b>
<b>Net Program Expenses</b>	<b>940</b>	<b>992</b>	<b>966</b>	<b>-</b>	<b>966</b>

\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	966
Add: Revenue from York	1,856
Net Operating Program Expenses Per Program Summary	<u>2,822</u>

**PROGRAM 5B  
DUFFIN CREEK PLANT**



**2020 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	8,675	9,464	9,529	217	9,746
Personnel Related	145	150	135	7	142
Communications	53	67	67	-	67
Supplies	1,339	1,440	1,415	185	1,600
Utilities	8,617	8,501	8,035	-	8,035
Chemicals	4,949	3,949	3,925	903	4,828
Materials & Services	2,373	2,567	2,568	(187)	2,381
Equipment Maintenance & Repairs	1,309	1,507	1,408	75	1,483
Vehicle Operations	50	75	44	5	49
Professional Services	351	378	365	-	365
Financial Expenses	376	376	376	-	376
Property Taxes	22	17	16	-	16
Minor Assets & Equipment	-	-	-	440	440
Major Repairs & Renovations	207	275	-	350	350
Contribution to Reserve / Reserve Fund	533	400	400	-	400
<b>Operating Expenses Subtotal</b>	<b>28,999</b>	<b>29,166</b>	<b>28,283</b>	<b>1,995</b>	<b>30,278</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
SCADA Group Charge	672	621	630	52	682
Works - Regional Environmental Lab Charge	161	400	400	(150)	250
Works - Facilities Management Charge	18	20	21	-	21
Recovery - Works - Sludge Disposal	(2,574)	(2,159)	(2,160)	(104)	(2,264)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(1,723)</b>	<b>(1,118)</b>	<b>(1,109)</b>	<b>(202)</b>	<b>(1,311)</b>
<b>Gross Operating Expenses</b>	<b>27,276</b>	<b>28,048</b>	<b>27,174</b>	<b>1,793</b>	<b>28,967</b>

**PROGRAM 5B  
DUFFIN CREEK PLANT**



**2020 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Tangible Capital Assets</b>					
New	585	585	-	7	7
Replacement	895	895	940	-	940
TCA Financing from York	(1,113)	(1,113)	(742)	(5)	(747)
<b>Total Tangible Capital Assets</b>	<b>367</b>	<b>367</b>	<b>198</b>	<b>2</b>	<b>200</b>
<b>Total Expenses</b>	<b>27,643</b>	<b>28,415</b>	<b>27,372</b>	<b>1,795</b>	<b>29,167</b>
<b>Revenues</b>					
Fees & Service Charges	(1,490)	(1,800)	(1,800)	-	(1,800)
Sundry Revenue	(83)	(7)	(5)	-	(5)
Revenue from York	(21,162)	(21,484)	(20,751)	(1,469)	(22,220)
<b>Total Revenues</b>	<b>(22,735)</b>	<b>(23,291)</b>	<b>(22,556)</b>	<b>(1,469)</b>	<b>(24,025)</b>
<b>Net Program Expenses</b>	<b>4,908</b>	<b>5,124</b>	<b>4,816</b>	<b>326</b>	<b>5,142</b>

\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	5,142
Less: Tangible Capital Assets	(200)
Add: Revenue from York	22,220
Net Operating Program Expenses Per Program Summary	<u>27,162</u>



**PROGRAM 5B1**  
**DUFFIN CREEK PLANT - EXCLUDING INFLUENT PUMPING STATION (IPS)**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Operating Expenses</b>					
Personnel Expenses	8,613	9,385	9,453	216	9,669
Personnel Related	145	150	135	7	142
Communications	53	67	67	-	67
Supplies	1,339	1,420	1,395	185	1,580
Utilities	8,057	8,057	7,572	-	7,572
Chemicals	4,949	3,949	3,925	903	4,828
Materials & Services	2,082	2,392	2,393	(187)	2,206
Equipment Maintenance & Repairs	1,309	1,382	1,283	-	1,283
Vehicle Operations	50	75	44	5	49
Professional Services	351	378	365	-	365
Financial Expenses	376	376	376	-	376
Minor Assets & Equipment	-	-	-	440	440
Major Repairs & Renovations	57	125	-	350	350
Contribution to Reserve / Reserve Fund	533	400	400	-	400
<b>Operating Expenses Subtotal</b>	<b>27,914</b>	<b>28,156</b>	<b>27,408</b>	<b>1,919</b>	<b>29,327</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works - SCADA Group Charge	672	621	630	52	682
Works - Regional Environmental Lab Charge	161	400	400	(150)	250
Recovery - Works - Sludge Disposal	(2,574)	(2,159)	(2,160)	(104)	(2,264)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(1,741)</b>	<b>(1,138)</b>	<b>(1,130)</b>	<b>(202)</b>	<b>(1,332)</b>
<b>Gross Operating Expenses</b>	<b>26,173</b>	<b>27,018</b>	<b>26,278</b>	<b>1,717</b>	<b>27,995</b>
<b>Tangible Capital Assets</b>					
New	585	585	-	7	7
Replacement	895	895	940	-	940
TCA Financing from York	(1,113)	(1,113)	(742)	(5)	(747)
<b>Total Tangible Capital Assets</b>	<b>367</b>	<b>367</b>	<b>198</b>	<b>2</b>	<b>200</b>
<b>Total Expenses</b>	<b>26,540</b>	<b>27,385</b>	<b>26,476</b>	<b>1,719</b>	<b>28,195</b>

**PROGRAM 5B1**  
**DUFFIN CREEK PLANT - EXCLUDING INFLUENT PUMPING STATION (IPS)**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Revenues</b>					
Fees & Service Charges	(1,490)	(1,800)	(1,800)	-	(1,800)
Sundry Revenue	(83)	(7)	(5)	-	(5)
Revenue from York	(20,059)	(20,454)	(19,855)	(1,393)	(21,248)
<b>Total Revenues</b>	<b>(21,632)</b>	<b>(22,261)</b>	<b>(21,660)</b>	<b>(1,393)</b>	<b>(23,053)</b>
<b>Net Program Expenses</b>	<b>4,908</b>	<b>5,124</b>	<b>4,816</b>	<b>326</b>	<b>5,142</b>

\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	5,142
Less: Tangible Capital Assets	(200)
Add: Revenue from York	21,248
Net Operating Program Expenses Per Program Summary	<u>26,190</u>

**PROGRAM 5B2  
DUFFIN CREEK PLANT - INFLUENT PUMPING STATION**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Operating Expenses</b>					
Personnel Expenses	62	79	76	1	77
<b>Net Payroll Expenses</b>	<b>62</b>	<b>79</b>	<b>76</b>	<b>1</b>	<b>77</b>
Supplies	-	20	20	-	20
Utilities	560	444	463	-	463
Materials & Services	291	175	175	-	175
Equipment Maintenance & Repairs	-	125	125	75	200
Property Taxes	22	17	16	-	16
Major Repairs & Renovations	150	150	-	-	-
<b>Operating Expenses Subtotal</b>	<b>1,085</b>	<b>1,010</b>	<b>875</b>	<b>76</b>	<b>951</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works - Facilities Management Charge	18	20	21	-	21
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>18</b>	<b>20</b>	<b>21</b>	<b>-</b>	<b>21</b>
<b>Total Expenses</b>	<b>1,103</b>	<b>1,030</b>	<b>896</b>	<b>76</b>	<b>972</b>
<b>Revenues</b>					
Revenue from York	(1,103)	(1,030)	(896)	(76)	(972)
<b>Total Revenues</b>	<b>(1,103)</b>	<b>(1,030)</b>	<b>(896)</b>	<b>(76)</b>	<b>(972)</b>
<b>Net Program Expenses</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	-
Add: Revenue from York	972
Net Operating Program Expenses Per Program Summary	<u>972</u>

**PROGRAM 5C  
DUFFIN CREEK TECH SUPPORT**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	255	216	213	-	213
Personnel Related	5	3	3	2	5
<b>Operating Expenses Subtotal</b>	<b>260</b>	<b>219</b>	<b>216</b>	<b>2</b>	<b>218</b>
<b>Gross Operating Expenses</b>	<b>260</b>	<b>219</b>	<b>216</b>	<b>2</b>	<b>218</b>
<b>Total Expenses</b>	<b>260</b>	<b>219</b>	<b>216</b>	<b>2</b>	<b>218</b>
<b>Revenues</b>					
Revenue from York	(211)	(178)	(175)	(2)	(177)
<b>Total Revenues</b>	<b>(211)</b>	<b>(178)</b>	<b>(175)</b>	<b>(2)</b>	<b>(177)</b>
<b>Net Program Expenses</b>	<b>49</b>	<b>41</b>	<b>41</b>	<b>-</b>	<b>41</b>

\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	41
Add: Revenue from York	177
Net Operating Program Expenses Per Program Summary	<u>218</u>

**PROGRAM 5D  
DUFFIN CREEK ADMINISTRATION**



**2020 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program:	2019		2020		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works - General Administration Charge	2,762	2,762	2,846	-	2,846
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>2,762</b>	<b>2,762</b>	<b>2,846</b>	<b>-</b>	<b>2,846</b>
<b>Gross Operating Expenses</b>	<b>2,762</b>	<b>2,762</b>	<b>2,846</b>	<b>-</b>	<b>2,846</b>
<b>Revenues</b>					
Revenue from York	(2,241)	(2,241)	(2,309)	-	(2,309)
<b>Total Revenues</b>	<b>(2,241)</b>	<b>(2,241)</b>	<b>(2,309)</b>	<b>-</b>	<b>(2,309)</b>
<b>Net Program Expenses</b>	<b>521</b>	<b>521</b>	<b>537</b>	<b>-</b>	<b>537</b>

\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	537
Add: Revenue from York	2,309
Net Operating Program Expenses Per Program Summary	<u>2,846</u>

**PROGRAM 5E  
DUFFIN CREEK FACILITY**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Operating Expenses</b>					
Supplies	26	15	15	15	30
Materials & Services	47	23	23	21	44
Buildings & Grounds Operations	1,283	809	809	86	895
Equipment Maintenance & Repairs	106	36	36	-	36
Contracted Services	355	422	442	-	442
Major Repairs & Renovations	16	-	-	554	554
<b>Operating Expenses Subtotal</b>	<b>1,833</b>	<b>1,305</b>	<b>1,325</b>	<b>676</b>	<b>2,001</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works - Facilities Management Charge	291	290	310	8	318
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>291</b>	<b>290</b>	<b>310</b>	<b>8</b>	<b>318</b>
<b>Gross Operating Expenses</b>	<b>2,124</b>	<b>1,595</b>	<b>1,635</b>	<b>684</b>	<b>2,319</b>
<b>Revenues</b>					
Revenue from York	(1,723)	(1,294)	(1,327)	(555)	(1,882)
<b>Total Revenues</b>	<b>(1,723)</b>	<b>(1,294)</b>	<b>(1,327)</b>	<b>(555)</b>	<b>(1,882)</b>
<b>Net Program Expenses</b>	<b>401</b>	<b>301</b>	<b>308</b>	<b>129</b>	<b>437</b>

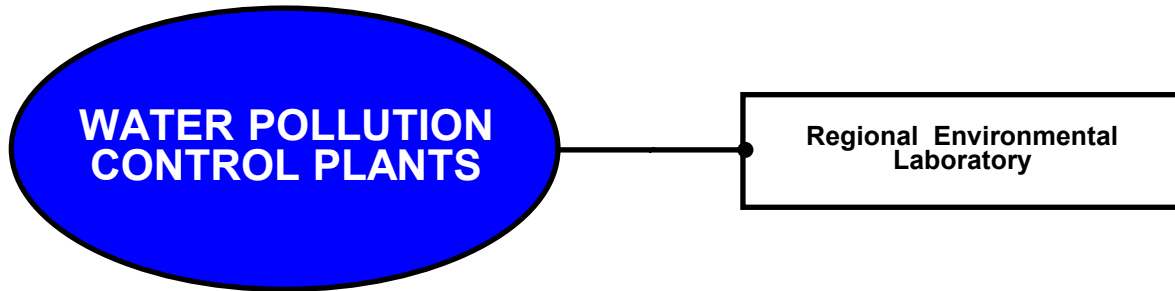
\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	437
Add: Revenue from York	1,882
Net Operating Program Expenses Per Program Summary	<u>2,319</u>



2020 Program Detail

Works - Sanitary Sewerage System



**Purpose:**

- ◆ To provide environmental analysis for water and wastewater systems

**Description of Program Activities:**

- ◆ To operate and maintain the Regional Environmental Laboratory for the water and wastewater monitoring needs of the Regions of Durham and York, area municipalities and private clients
- ◆ Administer programs required within the Ministry of the Environment, Conservation and Parks (MECP) Certificates of Approval for wastewater and drinking water licenses
- ◆ Plan for changes to environmental regulations that maintain and improve the quality of the Region's water supply and sanitary sewerage systems through ongoing skills development and process monitoring

**Description of Program Resources:**

- ◆ 2020 Full Time Employees 26.200
- ◆ 2019 Full Time Employees 26.340

Re-allocation of a portion of one (1) position to Technical Support (-0.140 FTEs)

**Performance Measurements:**

- ◆ Compliance with ISO 17025 standard and accreditation criteria through audits by the Canadian Association for Laboratory Accreditation (CALA). The Regional Environmental Laboratory is fully accredited by CALA and licensed by the MECP for drinking water testing
- ◆ Quality Assurance/Quality Control (QA/QC) program has been established to ensure quality of data
- ◆ Approximately 70,000 samples for 250,000 tests are analyzed annually

**PROGRAM 6  
REGIONAL ENVIRONMENTAL LABORATORY**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Operating Expenses</b>					
Personnel Expenses	2,880	2,927	3,019	(25)	2,994
Personnel Related	59	42	41	22	63
Communications	-	-	-	-	-
Supplies	558	532	532	30	562
Utilities	8	10	10	-	10
Chemicals	54	40	40	(10)	30
Computer Maintenance & Operations	75	55	55	15	70
Materials & Services	126	108	108	11	119
Buildings & Grounds Operations	18	18	18	3	21
Equipment Maintenance & Repairs	153	125	126	15	141
Vehicle Operations	6	13	13	(13)	-
Professional Services	2	10	5	-	5
Contracted Services	9	12	12	6	18
Financial Expenses	3	3	3	1	4
Contribution to Reserve / Reserve Fund	125	125	125	-	125
<b>Operating Expenses Subtotal</b>	<b>4,076</b>	<b>4,020</b>	<b>4,107</b>	<b>55</b>	<b>4,162</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-General Administration Charge	143	143	143	-	143
Works-Facilities Management Charge	21	30	32	1	33
Recovery - Works-Regional Environmental Lab Service	(1,610)	(1,622)	(1,624)	150	(1,474)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(1,446)</b>	<b>(1,449)</b>	<b>(1,449)</b>	<b>151</b>	<b>(1,298)</b>
<b>Gross Operating Expenses</b>	<b>2,630</b>	<b>2,571</b>	<b>2,658</b>	<b>206</b>	<b>2,864</b>



**PROGRAM 6  
REGIONAL ENVIRONMENTAL LABORATORY**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Tangible Capital Assets</b>					
New	12	12	-	-	-
Replacement	160	160	586	-	586
TCA Financing from York Contribution from Reserve / Reserve Fund	(19)	(19)	(293)	-	(293)
	(135)	(135)	-	-	-
<b>Total Tangible Capital Assets</b>	<b>18</b>	<b>18</b>	<b>293</b>	<b>-</b>	<b>293</b>
<b>Total Expenses</b>	<b>2,648</b>	<b>2,589</b>	<b>2,951</b>	<b>206</b>	<b>3,157</b>
<b>Revenues</b>					
Sundry Revenue	(900)	(900)	(900)	100	(800)
Revenue from Regional Environmental Lab Operations	(1,671)	(1,671)	(1,758)	31	(1,727)
Revenue from York	-	-	-	(169)	(169)
<b>Total Revenues</b>	<b>(2,571)</b>	<b>(2,571)</b>	<b>(2,658)</b>	<b>(38)</b>	<b>(2,696)</b>
<b>Net Program Expenses</b>	<b>77</b>	<b>18</b>	<b>293</b>	<b>168</b>	<b>461</b>

\* Tangible Capital Assets are stated separately on the Program Summary

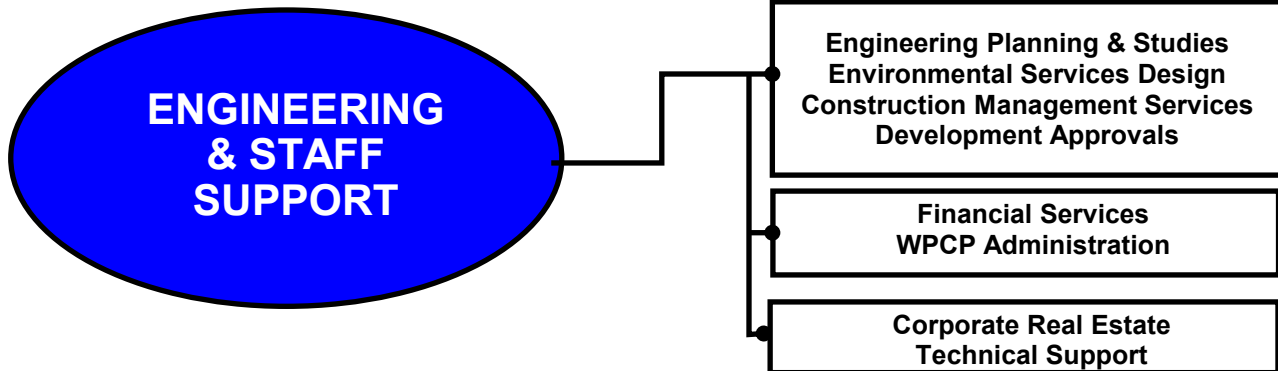
Net Program Expenses Per Above	461
Less: Tangible Capital Assets	(293)
Net Operating Program Expenses Per Program Summary	<u>168</u>

# PROGRAM 7 ENGINEERING AND STAFF SUPPORT



## 2020 Program Detail

## Works - Sanitary Sewerage System



### Purpose:

Represents the portions of various divisions of the Works Department operation that are attributable to the Sanitary Sewerage System including:

#### Engineering Planning and Studies

- ◆ To provide overall leadership and guidance to the various Departments of the Region of Durham which affect long-range planning of the Municipal Water Supply and Distribution Systems and Municipal Wastewater Collection and Treatment Systems; to service existing customers and future customers forecast under the anticipated growth recognized in the Durham Region Official Plan

#### Environmental Services Design

- ◆ To plan, design and initiate construction of sanitary sewerage infrastructure to provide service for existing and new customers, in compliance with all applicable legislation and regulations. Sanitary sewerage infrastructure includes water pollution control plants, pumping stations and sanitary sewers and appurtenances

#### Construction Management Services

- ◆ To plan, design and construct Regional infrastructure including all roads, sanitary and storm sewers and associated services, watermains and associated services, bridges, culverts, water supply plants and associated wells, pumping stations and modifications, water pollution control plants and associated pumping stations and modifications, all as budgeted for in the current year's business plan including all similar construction necessitated by emergencies

#### Development Approvals

- ◆ To assist and facilitate well planned industrial, commercial and residential development proposals within Durham Region by providing cost effective municipal water, sanitary sewerage and Regional road services, while protecting the interests of the Region and the public

#### Financial Services

- ◆ To provide overall leadership and direction to the various divisions of the Works Department in effectively monitoring and managing expenditures to ensure compliance with approved budgets and policy guidelines

#### Water Pollution Control Plant Administration

- ◆ To provide management of the Plant Operations Division including: the co-ordination and monitoring of expenditures, dealing with personnel and administrative issues and planning for the long term operational needs of the division in accordance with policies, guidelines and legislation



## 2020 Program Detail

## Works - Sanitary Sewerage System

### Purpose: (continued)

#### Corporate Real Estate

- ◆ To administer and manage the real estate function for the Region including the rental of properties and the purchase of land to facilitate construction of municipal services

#### Technical Support

- ◆ A technical working group directing and supporting the following programs:
  - Sewer-Use By-Law Enforcement
  - Water/Wastewater Treatment Operations
  - Maintenance Operations (including landfill monitoring)
  - Water Energy Efficiency Programs
  - Data System Management
  - Source Water Protection

### Description of Program Activities:

The duties and services provided are required to comply with all applicable legislation and represent those areas of the Works Department which relate directly to the provision and management of the sanitary sewerage infrastructure. The activities include: engineering planning and studies, detailed design, construction and asset management and ongoing post commissioning support.

#### Engineering Planning and Studies

- ◆ Develop and implement a comprehensive servicing strategy for the water supply and sanitary sewerage systems throughout the Region through the completion of Official Plan Servicing Studies and providing input into the Development Charges Studies
- ◆ Coordinate the use and protection of our valuable groundwater resources through development of wellhead protection areas, review of land-uses within these areas, and liaison with neighbouring municipalities on groundwater management practices
- ◆ Complete Environmental Assessments, as required, for water supply and sanitary sewerage capital projects prior to Capital Projects proceeding to detailed design and construction
- ◆ Provide technical review of applications for new development and comment on availability of water supply and sanitary sewerage services, oversizing, and ensure that the Region's standards are being met
- ◆ Act as Durham Region representative on various internal and external Committees related to water supply and sanitary sewerage servicing

#### Environmental Services Design

- ◆ Plan and implement the rehabilitation/replacement of existing infrastructure in conjunction with Regional and Area Municipality Road programs and independent of road programs. Conduct Asset Management studies to prioritize deficiencies and optimize use of financing for rehabilitation and replacement of existing sanitary sewerage infrastructure. Design and initiate construction of sanitary sewerage infrastructure to service existing and new development and in response to new regulations

#### Construction Management Service

- ◆ To provide the administrative services which calculate the budgets for infrastructure projects, develop and award the tenders and oversee the construction projects
- ◆ To provide the contract administrative services required to complete the construction activities including the processing and executing of all required project documentation, bonding and insurance, and progress payments
- ◆ Fulfilling contract requirements such as issuing substantial and final completion certificates, maintaining statutory, deficiency, maintenance and finishing holdbacks and final contract releases

# PROGRAM 7 ENGINEERING AND STAFF SUPPORT



## 2020 Program Detail

## Works - Sanitary Sewerage System

### Description of Program Activities: (continued)

#### Construction Management Services (continued)

- ◆ To provide required quality control and quality assurance for construction projects, including topographic surveying and layout, sewer and water infrastructure testing (SWAT), construction inspection, commissioning services, as constructed measurements and maintaining all as constructed drawings, testing of construction materials and providing geotechnical investigations and associated services
- ◆ To provide asset management services including the management and monitoring of the Region's infrastructure assets

#### Development Approvals

- ◆ Review and process development applications, including land severances, with minimum delay, ensuring that they meet Regional guidelines and standards and services are sized to meet long range Regional servicing objectives
- ◆ Negotiate and prepare draft servicing, subdivision or front ending agreements that are balanced and fair to ensure no adverse financial impact on the Region
- ◆ Assess feasibility, request for funding, coordinate collection charges, issue connection applications and payment agreements and initiate the passage of by-laws for Regional residents who request sewer and/or water service
- ◆ Co-ordinate the Development Charge collection process with local municipalities and the Finance Department to ensure timely issuance of building permits and adequate cash flow from development for the construction of Regional growth related infrastructure
- ◆ Control development to balance available capacities or identify required improvements to accommodate the development by coordinating comments and discussing issues with Local Area Municipalities, other Divisions and Departments

#### Financial Services

- ◆ Coordinate the preparation of the Works Department Annual Operating and Capital Budgets
- ◆ Manage and execute transactional items to recover costs from internal programs and divisions as well as outside agencies, developers and other area municipalities related to current and capital programs
- ◆ Liaison with the Finance Department and other senior levels of government regarding matters of Budget Management and policy related to funding and expenditures
- ◆ Ensure Works staff meet deadlines set by Regional Council and the Finance Department
- ◆ Provide clerical and administrative support related to committee reports and official correspondence
- ◆ Provide mail and reception services for the Works Department at Regional Headquarters
- ◆ Maintain proper inventory of office materials and supplies for staff use

#### Water Pollution Control Plants Administration

- ◆ Assist in the preparation of the Plant Operations budget
- ◆ Monitor and approve expenditures in accordance with approved budgets, policies and guidelines
- ◆ Manage divisional administrative needs in accordance with agreements, policies, guidelines and legislative requirements
- ◆ Develop policies, methods and guidelines for the efficient and effective operation of the Region's Water Pollution Control Plant facilities
- ◆ Liaise with government, public and private agencies



2020 Program Detail

Works - Sanitary Sewerage  
System

Description of Program Activities: (continued)

Corporate Real Estate

- ◆ Negotiate property agreements for the acquisition of lands and property rights necessary for implementation of Regional programs including the construction of road, sanitary sewerage and water supply projects
- ◆ Co-ordinate the expropriation process where necessary
- ◆ Locate and negotiate lease agreements for facilities required by various Regional Departments and co-ordinate leasehold improvements to the facilities in conjunction with the client and with our Facilities Management Division
- ◆ Manage the rental of Region owned properties, including the collection of rent and the disposal of properties no longer required by the Region
- ◆ Compile and maintain records on all Region owned property including limited interest such as sanitary sewerage and water supply easements, leases, licenses, permission to enter, pipe crossings and encroachments
- ◆ Co-ordinate, plan and schedule the re-registration of easements as directed by Provincial legislation
- ◆ Provide title information and cost estimates related to land and leasing, to other Divisions and Departments, as required

Technical Support

- ◆ A technical working group directing and supporting the following programs:
  - ◆ *Sewer-Use By-Law Enforcement:*  
Enforcement of the Sewer-Use By-law 55-2013, as amended, to protect the infrastructure and the treatment facilities, to maintain compliance with regulatory requirements through monitoring, investigation, compliance programs and surcharge agreements and to maintain public/staff safety
  - ◆ *Water/Wastewater Treatment Operations:*  
Provide technical support in areas of treatment operations and design, monitoring and reporting for compliance requirements, response and investigation to consumer concerns and enquiries, training of staff, response to adverse water quality issues and related regulatory notifications
  - ◆ *Maintenance Operations:*  
Provide technical support in areas of maintenance operations, including contract administration of maintenance and rehabilitation programs for watermains, sanitary/storm sewers, maintaining CCTV program, budget preparation, review of new infrastructure to meet Regional standards and regulatory requirements
  - ◆ *Water Energy Efficiency Programs:*  
The Water Energy Efficiency Program focuses on education of the public and outreach through newsletters, presentations, schools and the Central Lake Ontario Conservation Authority's (CLOCA) Children's Watershed Festival. This program also undertakes innovative water efficiency field studies through partnerships with area municipalities  
  
The Energy Management program will assist plant operation in energy control, and demand reduction projects, conduct energy audits for major energy using Regional Facilities through power monitoring and energy use reduction projects
- ◆ *Data System Management (GIS Group):*  
The Data System Management (DSM) program maintains the linear infrastructure data of the existing Water Supply, Sanitary Sewerage and Storm Sewer System using leading edge Geographical Information System (GIS) technology and provides services to inside and outside users for all cartographic or inventory needs. DSM develops and maintains applications for convenient data access to infrastructure data

# PROGRAM 7 ENGINEERING AND STAFF SUPPORT



## 2020 Program Detail

## Works - Sanitary Sewerage System

### Description of Program Resources:

- ◆ 2020 Full Time Employees 65.627
- ◆ 2019 Full Time Employees 65.258 Restated

Two (2) SWAT Labourers in Construction Management Services to aid with watermain disinfection, sampling and pressure testing for all subdivisions and regional capital construction. This position will be shared with General Tax and Water Supply (0.514 FTEs)

Transfer of one (1) vacant position from Real Estate to Facilities Management (-0.220 FTE)

### Performance Measurements:

- ◆ Resources to provide staff for administration/engineering support. Also includes general office expenditures such as telephone costs, office supplies and operating costs
- ◆ Resource Management through budgeting and forecasting future needs
- ◆ Quality control through Construction Inspection and Contract Administration
- ◆ Coordination of all related activities including safety, real estate and data management
- ◆ Maintenance and replacement of Information Technology assets
- ◆ Management of software licenses and upgrades

**PROGRAM 7  
ENGINEERING AND STAFF SUPPORT**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	7,045	7,902	8,079	94	8,173
Payroll Maintenance					
Management - Recovery	(2,766)	(3,083)	(3,218)	(27)	(3,245)
<b>Net Personnel Expenses</b>	<b>4,279</b>	<b>4,819</b>	<b>4,861</b>	<b>67</b>	<b>4,928</b>
Personnel Related	201	284	270	14	284
Communications	64	94	85	3	88
Supplies	63	74	69	22	91
Computer Maintenance & Operations	126	130	129	8	137
Materials & Services	589	540	537	(14)	523
Equipment Maintenance & Repairs	297	206	205	50	255
Vehicle Operations	1	33	14	(3)	11
Professional Services	103	363	343	(6)	337
Financial Expenses	48	48	48	-	48
Minor Assets & Equipment	3	4	-	12	12
<b>Operating Expenses Subtotal</b>	<b>5,774</b>	<b>6,595</b>	<b>6,561</b>	<b>153</b>	<b>6,714</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Corporate Communications Charge	163	162	163	-	163
Corporate IT Charge	152	152	152	-	152
Corporate HR Charge	75	75	75	-	75
Works - Regional Environmental Lab Charge	115	135	135	-	135
Recovery - Works-General Tax	(15)	(15)	(15)	-	(15)
Recovery - Regional Environmental Lab	(72)	(57)	(57)	-	(57)
Recovery - Works - Biosolids Services	(260)	(278)	(281)	-	(281)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>158</b>	<b>174</b>	<b>172</b>	<b>-</b>	<b>172</b>
<b>Gross Operating Expenses</b>	<b>5,932</b>	<b>6,769</b>	<b>6,733</b>	<b>153</b>	<b>6,886</b>

**PROGRAM 7  
ENGINEERING AND STAFF SUPPORT**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Tangible Capital Assets</b>					
New	76	76	-	253	253
Replacement	171	171	18	271	289
<b>Total Tangible Capital Assets</b>	<b>247</b>	<b>247</b>	<b>18</b>	<b>524</b>	<b>542</b>
<b>Total Expenses</b>	<b>6,179</b>	<b>7,016</b>	<b>6,751</b>	<b>677</b>	<b>7,428</b>
<b>Revenues</b>					
Fees & Service Charges	(520)	(498)	(499)	(3)	(502)
Sale of Publications	(13)	(10)	(10)	1	(9)
Sundry Revenue	(343)	(430)	(416)	(3)	(419)
<b>Total Revenues</b>	<b>(876)</b>	<b>(938)</b>	<b>(925)</b>	<b>(5)</b>	<b>(930)</b>
<b>Net Program Expenses</b>	<b>5,303</b>	<b>6,078</b>	<b>5,826</b>	<b>672</b>	<b>6,498</b>

\* Tangible Capital Assets are stated separately on the Program Summary

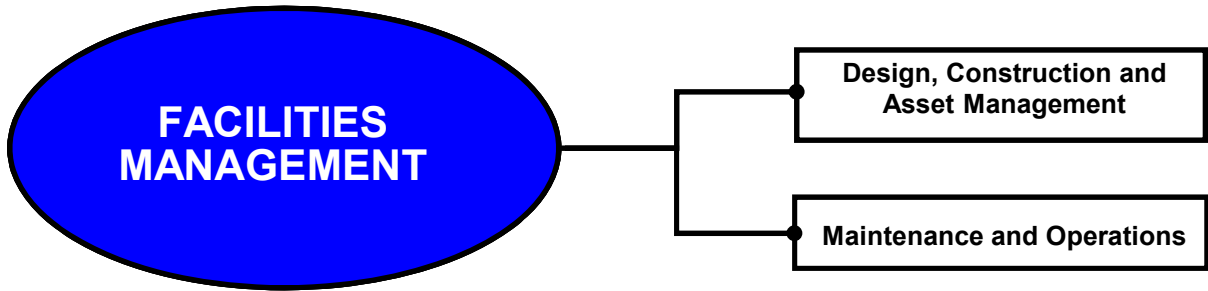
Net Program Expenses Per Above	6,498
Less: Tangible Capital Assets	(542)
Net Operating Program Expenses Per Program Summary	<u>5,956</u>





**2020 Program Detail**

**Works - Sanitary Sewerage System**



**Purpose:**

- ◆ Provide overall lifecycle management for Regional facilities including:
  - ◆ Detailed design and construction of new facilities and leasehold improvements
  - ◆ Lifecycle maintenance planning and replacement strategies
  - ◆ Ongoing and preventative maintenance and overall operation of Regional facilities, properties and grounds through Regional and contracted forces
  - ◆ Centralized security services

**Description of Program Activities:**

The Region has 219 facilities with an estimated total area of 435,228 square metres (4.7 million square feet), which generate a significant number of repair and maintenance requests over the course of a year. Major Regional facilities with complex heating, ventilation and air conditioning systems and a large number of occupants create a unique and challenging environment for facility related work

**Design, Construction and Asset Management**

- ◆ The Design, Construction and Asset Management unit provides Project management services for all facility capital construction and maintenance projects undertaken by the Region, including those delivered for Social Housing, Long-Term Care and Durham Regional Police Service. The Design, Construction and Asset Management unit is responsible for managing all facets of facility construction projects from their inception through to completion
- ◆ Office design and staff relocation are constant demands on any organization. The Design, Construction and Asset Management unit provides expertise to plan, supervise and implement these changes in a timely and professional manner with minimal effect on staff and the delivery of their programs
- ◆ As facilities age, a greater amount of time and resources is required to maintain them in an acceptable, reliable operating condition, and retain the inherent asset value. The Design, Construction and Asset Management unit is responsible for the Region wide condition and inspection program, which identifies and prioritizes the work required on Regional facilities, providing a life cycle management approach to prioritize state of good repair investments
- ◆ Services provided: Functional Review/Scope of Work determination; Budget estimates; Consultant selection; Council approvals as required; Design review oversight and management; Quotation and Tenders; Construction management; Move/relocation management; Commissioning of facility; Warranty management; Project closeout; Post occupancy review; Leasehold renovations or office design and relocation services; Computer Assisted Drafting and Design (CAD) services; Long and short term accommodation studies; Maintain databases; Accommodation planning; Implementation of interior renovations; Furniture management



**2020 Program Detail**

**Works - Sanitary Sewerage System**

**Description of Program Activities (continued):**

**Maintenance and Operations**

- ◆ Water Supply and Water Pollution Control Plants and Pumping Stations, Traffic, Maintenance and Transit Depots, Solid Waste/Recycling locations, Childcare Centres, Paramedic Stations and leased facilities require support, each with special facility maintenance and property needs based on the clientele and use
- ◆ All Regional facilities require service contracts to complement the daily operation of the facility so client programs may be delivered effectively, such as boiler/heating/air systems, elevators, backflow prevention, fire and life safety, ground maintenance and custodial/environmental services
- ◆ Services provided: Planned preventative maintenance; Contract administration; Occupant support; 24/7 Emergency response; Custodial services
- ◆ In addition to the Region's 219 facilities, the Facilities Management division also looks after the security of the Regional Administration Headquarters building, including access control, security patrol and guard services, and CCTV installation, operation and maintenance
- ◆ Services provided: Security access control; Parking management; Response to Emergency Alarm System; Key control administration; Photo I.D. cards; 24/7 response to Security Systems Alarms

**Description of Program Resources:**

- ◆ 2020 Full Time Employees      28.178
- ◆ 2019 Full Time Employees      23.984

One (1) Senior Project Coordinator to provide support in the delivery of facility related capital projects driven by growth and asset management requirements. This position is shared with General Tax, Water Supply and Solid Waste Management (0.386 FTE).

Transfer of one (1) vacant position from Engineering and Staff Support - Real Estate (0.220 FTE)

Increase to reflect re-distribution of resources across funds based on a review of activities undertaken by the Design, Construction and Asset Management section (3.588 FTEs).

**Performance Measurements:**

- ◆ Compliance with all building code standards
- ◆ Monitoring of costs
- ◆ Investigation and resolution of all requests/complaints

**PROGRAM 8  
FACILITIES MANAGEMENT**



**2020 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program: (\$,000's)	2019		2020		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Approved Budget
<b>Operating Expenses</b>					
Personnel Expenses	2,526	2,645	2,703	644	3,347
Payroll Maintenance Management - Recovery	(710)	(793)	(826)	(20)	(846)
<b>Net Payroll Expenses</b>	<b>1,816</b>	<b>1,852</b>	<b>1,877</b>	<b>624</b>	<b>2,501</b>
Personnel Related	60	73	69	20	89
Communications	27	25	24	6	30
Supplies	38	43	39	4	43
Utilities	58	59	59	-	59
Computer Maintenance & Operations	15	16	16	4	20
Materials & Services	57	58	57	13	70
Buildings & Grounds Operations	1,628	1,555	1,510	230	1,740
Equipment Maintenance & Repairs	84	70	67	24	91
Vehicle Operations	100	100	100	-	100
Professional Services	18	15	15	16	31
Contracted Services	112	109	141	38	179
Financial Expenses	958	958	958	2	960
Property Taxes	1,513	1,513	1,480	-	1,480
Minor Assets & Equipment	-	-	-	12	12
Major Repairs & Renovations	171	171	-	366	366
<b>Operating Expenses Subtotal</b>	<b>6,655</b>	<b>6,617</b>	<b>6,412</b>	<b>1,359</b>	<b>7,771</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works - General Tax Charge	23	23	23	4	27
Works - Facilities Management Charge	415	435	464	11	475
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>438</b>	<b>458</b>	<b>487</b>	<b>15</b>	<b>502</b>
<b>Gross Operating Expenses</b>	<b>7,093</b>	<b>7,075</b>	<b>6,899</b>	<b>1,374</b>	<b>8,273</b>

**PROGRAM 8  
FACILITIES MANAGEMENT**



**2020 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Tangible Capital Assets</b>					
New	110	110	-	514	514
Replacement	1,058	1,058	477	2,399	2,876
Contribution from Reserve / Reserve Fund	-	-	-	(702)	(702)
<b>Total Tangible Capital Assets</b>	<b>1,168</b>	<b>1,168</b>	<b>477</b>	<b>2,211</b>	<b>2,688</b>
<b>Total Expenses</b>	<b>8,261</b>	<b>8,243</b>	<b>7,376</b>	<b>3,585</b>	<b>10,961</b>
<b>Revenues</b>					
Rents	(5)	(5)	(5)	-	(5)
<b>Total Revenues</b>	<b>(5)</b>	<b>(5)</b>	<b>(5)</b>	<b>-</b>	<b>(5)</b>
<b>Net Program Expenses</b>	<b>8,256</b>	<b>8,238</b>	<b>7,371</b>	<b>3,585</b>	<b>10,956</b>

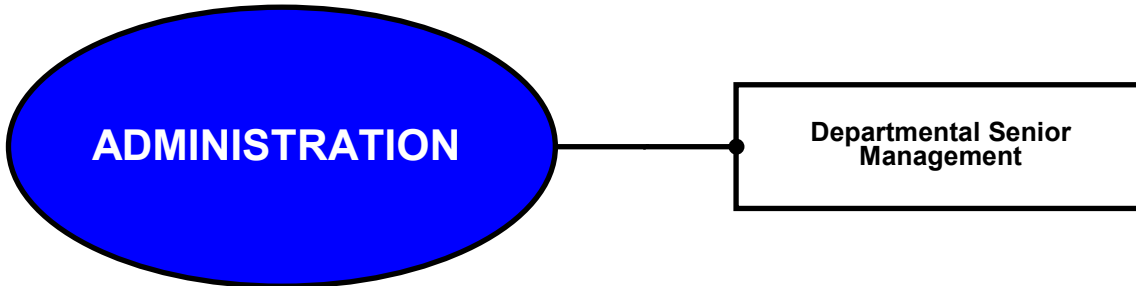
\* Tangible Capital Assets are stated separately on the Program Summary

Net Program Expenses Per Above	10,956
Less: Tangible Capital Assets	<u>(2,688)</u>
Net Operating Program Expenses Per Program Summary	<u><u>8,268</u></u>



**2020 Program Detail**

**Works - Sanitary Sewerage  
System**



**Purpose:**

- ◆ Provide overall direction and strategic planning for the Works Department with respect to Planning, Design, Construction, Operation and Maintenance of the Region's Sanitary Sewerage System
- ◆ To ensure that all legislated requirements are adhered to and all operations remain in compliance with regulatory bodies

**Description of Program Activities:**

- ◆ Advise the Works Committee, Senior Management and Regional Council on all Works Department related matters
- ◆ Manage the operations of the Works Department through its divisions: Construction Management Services, Compliance, Development Approvals, Engineering Planning and Studies, Environmental Services Design, Facilities Management, Financial Services, Maintenance Operations, Plants Operations, Transportation Design, Transportation Infrastructure, Traffic Engineering and Operations, Corporate Real Estate and Solid Waste Management
- ◆ Represent the Region's interests with other groups, including Provincial Ministries, other Regions and interest groups
- ◆ Provide administrative support to the general operations and special activities of the Works Department
- ◆ Coordination of Works Committee reports for presentation to Regional Council related to the Sanitary Sewerage System

**Description of Program Resources:**

- ◆ 2020 Full Time Employees            1.600
- ◆ 2019 Full Time Employees           1.600



**2020 Program Detail**

**Works - Sanitary Sewerage System**

<b>Detailed Cost of Program:</b> (\$,000's)	<b>2019</b>		<b>2020</b>		
	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	308	308	312	2	314
Personnel Related	10	10	8	-	8
<b>Net Program Expenses</b>	<b>318</b>	<b>318</b>	<b>320</b>	<b>2</b>	<b>322</b>

**PROGRAM 10  
HEADQUARTERS SHARED COST**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Restated Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	1,207	1,216	1,196	60	1,256
Communications	630	650	650	-	650
Supplies	112	112	112	-	112
Utilities	1,098	1,098	1,149	-	1,149
Materials & Services	59	27	27	32	59
Buildings & Grounds Operations	1,177	1,235	1,164	(7)	1,157
Equipment Maintenance & Repairs	14	12	12	7	19
Professional Services	24	20	20	4	24
Contracted Services	809	802	811	76	887
Financial Expenses	182	182	182	-	182
Major Repairs & Renovations	145	209	-	95	95
Contribution to Reserves / Reserve Funds	637	637	-	-	-
Call Centre Operations	592	687	604	255	859
Front Counter Operations	373	374	388	10	398
<b>Operating Expenses Subtotal</b>	<b>7,059</b>	<b>7,261</b>	<b>6,315</b>	<b>532</b>	<b>6,847</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Facilities Management & Shipping/Receiving Charge	412	421	396	-	396
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>412</b>	<b>421</b>	<b>396</b>	<b>-</b>	<b>396</b>
<b>Gross Operating Expenses</b>	<b>7,471</b>	<b>7,682</b>	<b>6,711</b>	<b>532</b>	<b>7,243</b>
<b>Tangible Capital Assets</b>					
New	60	60	-	345	345
Replacement	676	676	36	8,439	8,475
Federal Grant	-	-	-	(20)	(20)
Contribution From Reserves / Reserve Funds	(113)	(113)	-	(7,418)	(7,418)
<b>Total Tangible Capital Assets</b>	<b>623</b>	<b>623</b>	<b>36</b>	<b>1,346</b>	<b>1,382</b>

**PROGRAM 10  
HEADQUARTERS SHARED COST**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

Detailed Cost of Program:	2019		2020		
(\$,000's)	Estimated Actuals	Restated Budget	Base Budget	Program Change	Approved Budget
<b>Debt Charges</b>					
Debt Charges	4,594	4,594	4,594	-	4,594
<b>Total Debt Charges</b>	<b>4,594</b>	<b>4,594</b>	<b>4,594</b>	<b>-</b>	<b>4,594</b>
<b>Revenues</b>					
Rents	(25)	(25)	(25)	-	(25)
Sundry Revenue	(4)	(4)	(4)	-	(4)
<b>Total Revenues</b>	<b>(29)</b>	<b>(29)</b>	<b>(29)</b>	<b>-</b>	<b>(29)</b>
<b>Net Program Expenses</b>	<b>12,659</b>	<b>12,870</b>	<b>11,312</b>	<b>1,878</b>	<b>13,190</b>
<b>Department's Share of Net Program Expenses</b>	<b>1,073</b>	<b>1,073</b>	<b>943</b>	<b>157</b>	<b>1,100</b>



**PROGRAM 11  
TANGIBLE CAPITAL ASSETS PROGRAM SUMMARY**



**2020 Business Plan**

**Works - Sanitary Sewerage System**

<b>By Program</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Tangible Capital Assets:</b>					
1S Duffin Creek WPCP - New	585	585	-	7	7
2S - Replacement	895	895	940	-	940
3S Environmental Lab - New	12	12	-	-	-
4S - Replacement	160	160	586	-	586
5S Facilities Management - New	110	110	-	514	514
6S - Replacement	1,058	1,058	476	2,399	2,875
7S Fleet/Equipment - New	570	570	-	1,086	1,086
8S - Replacement	661	661	492	661	1,153
9S Construction of Municipal Services	21,584	21,584	21,584	867	22,451
<b>Tangible Capital Assets Subtotal</b>	<b>25,635</b>	<b>25,635</b>	<b>24,078</b>	<b>5,534</b>	<b>29,612</b>
<b>Tangible Capital Assets Revenue &amp; Recoveries:</b>					
10S Duffin Creek WPCP TCA Revenue from York	(1,113)	(1,113)	(742)	(5)	(747)
11S Environmental Lab - TCA Revenue from York	(19)	(19)	(293)	-	(293)
12S Environmental Lab - Recovery Reserve/Reserve Fund	(135)	(135)	-	-	-
13S Facilities Management - Recovery Reserve / Reserve Fund	-	-	-	(702)	(702)
<b>Tangible Capital Assets Revenue &amp; Recoveries Subtotal</b>	<b>(1,267)</b>	<b>(1,267)</b>	<b>(1,035)</b>	<b>(707)</b>	<b>(1,742)</b>
<b>Net Tangible Capital Assets Program Expenses</b>	<b>24,368</b>	<b>24,368</b>	<b>23,043</b>	<b>4,827</b>	<b>27,870</b>
<b>Summary of Increase (Decrease)</b>			<b>(\$1,325)</b>		<b>\$3,502</b>
			<b>-5.44%</b>		<b>14.37%</b>

TANGIBLE CAPITAL ASSETS - NEW



2020 Program Detail

Works - Sanitary Sewerage

Program Detail Page	Location	Item Description	Item #	Qty	Unit Cost	Gross Total Cost	Sewer Total	Other Financing	Net Sewer
03. Depot Operations	Admin/Depot - All	Office Furniture/Equipment/Technology	207	1	\$ 20,000	\$20,000	\$10,000	\$0	\$10,000
	Ajax Depot	Heavy Duty Excavator	193	1	\$ 411,000	\$411,000	\$137,000	\$0	\$137,000
	Oshawa/Whitby Depot	3000lb ROC Skid Steer with Asphalt Planer and Trailer	4	1	\$ 125,000	\$125,000	\$41,666	\$0	\$41,666
	Scugog Depot	Tandem Combination Dump Truck/Snow Plow	348	1	\$ 390,000	\$390,000	\$130,000	\$0	\$130,000
	Sunderland Depot	Tandem Combination Dump Truck/Snow Plow	349	1	\$ 390,000	\$390,000	\$130,000	\$0	\$130,000
04. WPCPs and Pumping Stations	Corbett Creek WPCP	Composite Samplers	376	2	\$ 20,000	\$40,000	\$40,000	\$0	\$40,000
		Macerator Scum/Raw sludges	212	2	\$ 30,000	\$60,000	\$60,000	\$0	\$60,000
		Mobile Tablets - All Plants	360	25	\$ 1,200	\$30,000	\$30,000	\$0	\$30,000
		Sluice Gates	334	3	\$ 18,000	\$54,000	\$54,000	\$0	\$54,000
	Courtice WPCP	On Line pH Meter	50	1	\$ 15,000	\$15,000	\$15,000	\$0	\$15,000
	Harmony Creek WPCP	On Line pH Meter	290	1	\$ 15,000	\$15,000	\$15,000	\$0	\$15,000
	Newcastle WPCP	On Line pH Meter	189	1	\$ 15,000	\$15,000	\$15,000	\$0	\$15,000
	Port Darlington WPCP	Phosphax unit	257	1	\$ 60,000	\$60,000	\$60,000	\$0	\$60,000
	WPCP Pumping Stations	Mobile Staff WiFi	386	1	\$ 30,000	\$30,000	\$30,000	\$0	\$30,000
	WPCP Pumping Stations - South	Flow Meters	285	1	\$ 65,000	\$65,000	\$65,000	\$0	\$65,000
05. B. Duffin Creek - Plant	Duffin Creek WPCP	Laptops	237	2	\$ 3,000	\$6,000	\$6,000	(\$4,647)	\$1,353
		New Desktop Computer	236	1	\$ 1,000	\$1,000	\$1,000	(\$775)	\$225
07. Engineering and Staff Support	Construction	1/2 Ton Pick-up Truck	3	1	\$ 50,000	\$50,000	\$16,667	\$0	\$16,667
		Laptop Computer	208	1	\$ 2,006	\$2,006	\$668	\$0	\$668
			209	1	\$ 2,006	\$2,006	\$669	\$0	\$669
		Office Furniture - Project Manager	233	1	\$ 2,000	\$2,000	\$667	\$0	\$667
	Environmental Services Design	Laptop	388	1	\$ 4,770	\$4,770	\$2,385	\$0	\$2,385
			389	1	\$ 4,770	\$4,770	\$2,385	\$0	\$2,385
		Telegger Recorders	391	4	\$ 2,500	\$10,000	\$5,000	\$0	\$5,000
	Water Pollution Control Plants	SCADA Equipment	378	1	\$ 150,000	\$150,000	\$150,000	\$0	\$150,000
		SCADA Servers	329	1	\$ 75,000	\$75,000	\$75,000	\$0	\$75,000

TANGIBLE CAPITAL ASSETS - NEW



2020 Program Detail

Works - Sanitary Sewerage

Program Detail Page	Location	Item Description	Item #	Qty	Unit Cost	Gross Total Cost	Sewer Total	Other Financing	Net Sewer
08. Facilities Management	Facilities - Design, Construction & Asset Management	Power Laptop	395	1	\$ 4,770	\$4,770	\$1,590	\$0	\$1,590
		Standard Laptop	381	1	\$ 2,006	\$2,006	\$669	\$0	\$669
			382	1	\$ 2,006	\$2,006	\$669	\$0	\$669
	Facilities - Maintenance & Operations	Compact Truck/SUV	53	1	\$ 47,000	\$47,000	\$15,667	\$0	\$15,667
		Standard Laptop	52	1	\$ 2,006	\$2,006	\$669	\$0	\$669
	Harmony Creek WPCP	Install New Egress Door	298	1	\$ 22,300	\$22,300	\$22,300	\$0	\$22,300
	Orono Depot	Install new access gate	195	1	\$ 100,000	\$100,000	\$33,333	\$0	\$33,333
	Oshawa/Whitby Depot	Emergency Standby Generator	198	1	\$ 456,000	\$456,000	\$152,000	\$0	\$152,000
		Installation of additional security cameras and upgrades to exterior lighting	201	1	\$ 250,000	\$250,000	\$83,333	\$0	\$83,333
	Scugog Depot	Wide Area Network Connection Construction	20	1	\$ 101,500	\$101,500	\$33,833	\$0	\$33,833
	Seaton	Seaton Facility Site Master Plan - Additional Funds	379	1	\$ 55,000	\$55,000	\$18,333	\$0	\$18,333
	Sunderland Depot	Install Perimeter Fencing	196	1	\$ 160,000	\$160,000	\$53,333	\$0	\$53,333
	Sunderland Depot - Expansion	Generator	60	1	\$ 295,000	\$295,000	\$98,333	\$0	\$98,333
<b>Grand Total</b>						<b>\$3,525,140</b>	<b>\$1,607,168</b>	<b>(\$5,422)</b>	<b>\$1,601,746</b>

Tangible Capital Asset Program Summary

1S Duffin Creek WPCP - New	7,000
5S Facilities Management - New	514,061
7S Fleet/Equipment - New	1,086,107
	<u>1,607,168</u>



**2020 Program Detail**

**Works - Sanitary Sewerage**

**TANGIBLE CAPITAL ASSETS - REPLACEMENT**

Program Detail Page	Location	Item Description	Item #	Qty	Unit Cost	Gross Total Cost	Sewer Total	Other Financing	Net Sewer
03. Depot Operations	Orono Depot	Laptop Computer for Road Patrol	210	1	\$ 1,700	\$1,700	\$567	\$0	\$567
	Oshawa/Whitby Depot	Forklift	188	1	\$ 60,000	\$60,000	\$20,000	\$0	\$20,000
04. WPCPs and Pumping Stations	Corbett Creek WPCP	RAS Pump Replacement	375	1	\$ 30,000	\$30,000	\$30,000	\$0	\$30,000
		Valve Actuators	354	1	\$ 25,000	\$25,000	\$25,000	\$0	\$25,000
		WAS Pump Replacement	374	2	\$ 25,000	\$50,000	\$50,000	\$0	\$50,000
	Courtice WPCP	Biosolids Transfer Pumps	310	1	\$ 10,000	\$10,000	\$10,000	\$0	\$10,000
		Headworks Grit/Rag Auger	49	1	\$ 75,000	\$75,000	\$75,000	\$0	\$75,000
		RAS Pump Rebuild	288	1	\$ 38,000	\$38,000	\$38,000	\$0	\$38,000
		Raw Sludge Pumps	293	1	\$ 35,000	\$35,000	\$35,000	\$0	\$35,000
	Harmony Creek WPCP	Bypass Gate Actuator	291	1	\$ 35,000	\$35,000	\$35,000	\$0	\$35,000
		Bypass Gate Replacement	292	1	\$ 45,000	\$45,000	\$45,000	\$0	\$45,000
		Chemical Pump and Piping	289	1	\$ 60,000	\$60,000	\$60,000	\$0	\$60,000
	Newcastle WPCP	Analyzer Equipment	8	1	\$ 20,000	\$20,000	\$20,000	\$0	\$20,000
		Grit and Rag Screw Conveyor and Drive	192	1	\$ 50,000	\$50,000	\$50,000	\$0	\$50,000
	WPCP Pumping Stations	Programming/Hardware - SPS SCADA	280	1	\$ 60,000	\$60,000	\$60,000	\$0	\$60,000
	WPCP Pumping Stations - South	Electrical Equipment Replacements	283	1	\$ 150,000	\$150,000	\$150,000	\$0	\$150,000
Pump Replacements		284	1	\$ 160,000	\$160,000	\$160,000	\$0	\$160,000	
05. B. Duffin Creek - Plant	Duffin Creek WPCP	Blower Building Control upgrade	266	1	\$ 300,000	\$300,000	\$300,000	(\$244,740)	\$55,260
		Dewatering Forklift	62	1	\$ 60,000	\$60,000	\$60,000	(\$43,998)	\$16,002
		Gator Replacement	235	3	\$ 25,000	\$75,000	\$75,000	(\$58,091)	\$16,909
		SCADA PLC/HMI/Engineering workstation upgrade/replacement	261	1	\$ 80,000	\$80,000	\$80,000	(\$61,964)	\$18,036
		SCADA Radio upgrade - base stations	263	1	\$ 120,000	\$120,000	\$120,000	(\$92,946)	\$27,054
		Server Upgrade	262	1	\$ 85,000	\$85,000	\$85,000	(\$65,837)	\$19,163
		Stage 1 and 2 Disinfection Chemical Piping Refurbishment	218	1	\$ 100,000	\$100,000	\$100,000	(\$81,580)	\$18,420
		Upgrade/Replace SCADA networking equipment and WiFi	260	1	\$ 120,000	\$120,000	\$120,000	(\$92,946)	\$27,054
		06. Regional Environmental Laboratory	Environmental Lab	Computers - Desktops	25	23	\$ 950	\$21,850	\$21,850
Computers - Laptops	24			2	\$ 2,650	\$5,300	\$5,300	(\$2,650)	\$2,650
Computers - Workstations	26			4	\$ 2,150	\$8,600	\$8,600	(\$4,300)	\$4,300

TANGIBLE CAPITAL ASSETS - REPLACEMENT



2020 Program Detail

Works - Sanitary Sewerage

Program Detail Page	Location	Item Description	Item #	Qty	Unit Cost	Gross Total Cost	Sewer Total	Other Financing	Net Sewer
06. Regional Environmental Laboratory	Environmental Lab	Digestion Blocks with Controllers	27	4	\$ 20,000	\$80,000	\$80,000	(\$40,000)	\$40,000
		Liquid Chromatograph Mass Spectrometer	23	1	\$ 450,000	\$450,000	\$450,000	(\$225,000)	\$225,000
		Muffle Furnace	22	2	\$ 10,000	\$20,000	\$20,000	(\$10,000)	\$10,000
07. Engineering and Staff Support	Construction	Survey GPS Instrument	347	1	\$ 50,000	\$50,000	\$16,667	\$0	\$16,667
	Data System Management	Chair and Ergonomic Upgrades	31	1	\$ 1,000	\$1,000	\$500	\$0	\$500
	Financial Services	Computers & Monitors Refresh	55	1	\$ 685,214	\$685,214	\$270,731	\$0	\$270,731
	Technical Support	Office Chairs	225	2	\$ 750	\$1,500	\$750	\$0	\$750
			228	2	\$ 500	\$1,000	\$500	\$0	\$500
08. Facilities Management	Corbett Creek WPCP	Accessibility Lift (Elevator)	300	1	\$ 200,000	\$200,000	\$200,000	\$0	\$200,000
		Replace AC and BAS System	299	1	\$ 473,000	\$473,000	\$473,000	\$0	\$473,000
	Lake Simcoe WPCP	Boiler Replacement - Additional Funding	304	1	\$ 150,000	\$150,000	\$150,000	\$0	\$150,000
	Newcastle WPCP	Boiler Replacement - Additional Funding	303	1	\$ 220,000	\$220,000	\$220,000	\$0	\$220,000
	Orono Depot	Replace Ford Smith 32,000 lb. Hoist	313	1	\$ 520,000	\$520,000	\$173,333	\$0	\$173,333
		Replacement of veeder root & Fuel System hardware and Software	394	1	\$ 125,000	\$125,000	\$41,667	\$0	\$41,667
	Oshawa/Whitby Depot	Furnace Replacement - Additional Funding	197	1	\$ 147,000	\$147,000	\$49,000	\$0	\$49,000
		Replacement of Floor Grates including Floor Drains	314	1	\$ 180,000	\$180,000	\$60,000	\$0	\$60,000
	Port Darlington WPCP	Chemical Storage Room Ventilation System	306	1	\$ 280,000	\$280,000	\$280,000	\$0	\$280,000
		Roof Replacement	307	1	\$ 200,200	\$200,200	\$200,200	\$0	\$200,200
		Spill Containment - Additional Funding	305	1	\$ 60,000	\$60,000	\$60,000	\$0	\$60,000
	Pumping Stations Central	Roof Replacement	309	1	\$ 157,500	\$157,500	\$157,500	\$0	\$157,500
	Regional Headquarters	Space Optimization & Master Accommodation Planning - Construction	401	1	\$ 985,634	\$985,634	\$492,817	(\$492,817)	\$0
		Space Optimization & Master Accommodation Planning - Consulting	399	1	\$ 418,454	\$418,454	\$209,227	(\$209,227)	\$0
	Scugog Depot	Construction of Mezzanine in Fleet Area	56	1	\$ 160,000	\$160,000	\$53,333	\$0	\$53,333
Structural Repairs to Mezzanine - Additional Funds		57	1	\$ 80,000	\$80,000	\$26,667	\$0	\$26,667	
Sunderland Depot	VOIP - Additional Funding	223	1	\$ 85,000	\$85,000	\$28,333	\$0	\$28,333	
<b>Grand Total</b>						<b>\$7,610,952</b>	<b>\$5,553,542</b>	<b>(\$1,737,021)</b>	<b>\$3,816,521</b>

TANGIBLE CAPITAL ASSETS - REPLACEMENT



2020 Program Detail

Works - Sanitary Sewerage

Program Detail Page	Location	Item Description	Item #	Qty	Unit Cost	Gross Total Cost	Sewer Total	Other Financing	Net Sewer
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<u>Tangible Capital Asset Program Summary</u>									
									940,000
									585,750
									2,875,077
									1,152,715
									<u>5,553,542</u>

**PROGRAM 9S  
TCA - CONSTRUCTION**



**2020 Program Detail**

**Works - Sanitary Sewerage System**

<b>Detailed Cost of Program:</b> (\$,000's)	<b>2019</b>		<b>2020</b>		
	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Approved Budget</b>
<b>Tangible Capital Assets</b>					
Capital Fund Contribution	21,584	21,584	21,584	867	22,451
<b>Total Tangible Capital Assets</b>	<b>21,584</b>	<b>21,584</b>	<b>21,584</b>	<b>867</b>	<b>22,451</b>

## 2020 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
7 R.R. 53 (Stevenson Rd.) from Hwy 401 to Bond St., Oshawa		D	200,000	0	200,000	200,000	0	0	0	0	0	0
8 R.R.57 (Bowmanville Ave.) from Baseline Rd. to Nash Rd., Bowmanville	306	C	2,300,000	0	0	0	105,800	1,697,400	6,900	489,900	0	0
10 R.R. 59 (Gibb St./Olive Ave ext from Drew St. to Ritson Rd., Oshawa		D	150,000	0	150,000	150,000	0	0	0	0	0	0
Sub-total			2,650,000	0	350,000	350,000	105,800	1,697,400	6,900	489,900	0	0
<b>Area Municipality Road Programs</b>												
12A City of Pickering Road Program		D,C	0	0	0	0	0	0	0	0	0	0
12B Town of Ajax Road Program		D,C	400,000	0	400,000	400,000	0	0	0	0	0	0
12C Town of Whitby Road Program		D,C	60,000	0	60,000	60,000	0	0	0	0	0	0
12D City of Oshawa Road Program		D,C	0	0	0	0	0	0	0	0	0	0
12E Municipality of Clarington Road Program		D,C	0	0	0	0	0	0	0	0	0	0
12F Township of Scugog Road Program		D,C	0	0	0	0	0	0	0	0	0	0
12G Township of Uxbridge Road Program		D,C	0	0	0	0	0	0	0	0	0	0
12H Township of Brock Road Program		D,C	0	0	0	0	0	0	0	0	0	0
12i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			660,000	0	660,000	660,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
Sub-total			0	0	0	0	0	0	0	0	0	0
<b>Betterments/Replacements</b>												
Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations		D,C	618,700	0	618,700	618,700	0	0	0	0	0	0
14 Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations		D,C	618,700	0	618,700	618,700	0	0	0	0	0	0
15 Rehabilitation of existing sanitary sewers in various locations		D,C	412,000	0	0	0	0	0	0	0	0	412,000
17 Replacement of sewer on Krosno Blvd. from Modlin Rd. to Alyssum St., Pickering		D	100,000	0	0	0	0	0	0	0	0	100,000
21 Replacement of sewer on Highland Ave. from Gliddon Ave. to Athol St., Oshawa		C	80,000	0	0	0	0	0	0	0	0	80,000
22 Replacement of sewer on Olive Ave. from Simcoe St. to Drew St., Oshawa		C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
Sub-total			2,310,700	0	1,718,700	1,718,700	0	0	0	0	0	592,000
<b>System Expansion</b>												
* 27 Twinning of ss on easement fr Southwood SSPS to 500 m N., Ajax		C	1,300,000	0	0	0	59,800	959,400	3,900	276,900	0	0
* 33 Brooklin TSS on easement from Anderson St. to Thicksn SSPS, Whitby	226	D	1,000,000	0	0	0	46,000	738,000	3,000	213,000	0	0
* 34 West Brooklin Trunk Sanitary Sewer from Cochrane St. to East Highway 12, Whitby	227	C	7,350,000	0	0	0	338,100	5,424,300	22,050	1,565,550	0	0
* 50 North Oshawa Creek West Branch TSS SSPS to Britannia Ave., Oshawa	216	EA	250,000	0	0	0	11,500	184,500	750	53,250	0	0
* 51 North Oshawa Creek West Branch TSS hydro corridor to Columbus Rd., Oshawa	217	EA	250,000	0	0	0	11,500	184,500	750	53,250	0	0
* 52 Courtice Sanitary Trunk Sanitary Sewer Phase 3, Courtice	211	C	2,000,000	0	0	0	92,000	1,476,000	6,000	426,000	0	0
* 55 Baseline Rd. TSS from Simpson Ave. to Bennett Rd., Bowmanville	302	D	200,000	0	0	0	9,200	147,600	600	42,600	0	0
* 57 Port Darlington Rd. TSS from Baseline Rd. to easement, Bowmanville	305	D	1,700,000	0	0	0	78,200	1,254,600	5,100	362,100	0	0
* 61 Wilmot Trunk Sanitary Sewer Rudell Rd. to King Ave. Newcastle	313	C	3,000,000	0	0	0	138,000	2,214,000	9,000	639,000	0	0
* 62 Wilmot Trunk Sanitary Sewer on King Ave. to Hwy 115/35, Newcastle	314	C	1,440,000	0	0	0	66,240	1,062,720	4,320	306,720	0	0
Sub-total			18,490,000	0	0	0	850,540	13,645,620	55,470	3,938,370	0	0
<b>B BUILDINGS</b>												
* 68 Corbett Creek Water Pollution Control Plant - expansion from 84 MLD to 109 MLD	200	EA	1,000,000	0	950,000	950,000	4,200	26,000	300	19,500	0	0
72 Proposed Conlin Rd. Sanitary Sewage Pumping Station - expansion and FM, Oshawa	207	C	3,500,000	0	0	0	161,000	2,583,000	10,500	745,500	0	0
85 Water St. Sanitary Sewage Pumping Station - expansion/replacement	401	D,C	2,574,000	0	0	0	0	0	0	0	0	2,574,000
89 Cannington Water Pollution Control Plant - Lagoon System	601	D	1,000,000	0	500,000	500,000	41,400	263,500	2,600	192,500	0	0
Sub-total			8,074,000	0	1,450,000	1,450,000	206,600	2,872,500	13,400	957,500	0	2,574,000



## 2020 Construction Program - Sanitary Sewerage

C	Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution						
						User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund
						Benefit to Existing	Total User Revenue					
* 96	Duffin Creek Water Pollution Control Plant - Digest mixing improvements & MCC		C	1,000,000	738,000	262,000	262,000	0	0	0	0	0
* 97	Duffin Creek Water Pollution Control Plant - replacement of Reactor 1 & 2, Pickering		C	20,000,000	14,760,000	5,240,000	5,240,000	0	0	0	0	0
* 98	Regional Environmental Laboratory Upgrades, Pickering	704	C	450,000	225,000	0	0	10,350	166,050	675	47,925	0
* 101	Duffin Creek Water Pollution Control Plant - remedial works & improvements		D	500,000	400,000	100,000	100,000	0	0	0	0	0
* 102	Duffin Creek WPCP - Reactor 3 & 4 refractory and dome replacement, Pickering		D,C	600,000	442,800	157,200	157,200	0	0	0	0	0
* 103	Duffin Creek WPCP - Blower Building 1 & 2 control system replacement, Pickering		D	160,000	0	160,000	160,000	0	0	0	0	0
* 105	Bayly St Sanitary Sewage Pumping Station - MCC review and upgrades		C	1,450,000	0	1,450,000	1,450,000	0	0	0	0	0
107	Cochrane St. Sanitary Sewage Pumping Station. Odour control upgrades, Whitby		D,C	350,000	0	350,000	350,000	0	0	0	0	0
* 108	Madawaska Sanitary Sewage Pumping Station - stand by power, Oshawa		C	1,250,000	0	1,250,000	1,250,000	0	0	0	0	0
* 109	Courtice Water Pollution Control Plant - remediation works and refurbishment		C	3,500,000	0	0	0	0	0	0	0	3,500,000
* 112	Lake Simcoe Water Pollution Control Plant - Diffused Air System replacement		C	1,480,000	0	0	0	0	0	0	0	1,480,000
* 113	Lake Simcoe Water Pollution Control Plant - replacement of clarifier		C	100,000	0	100,000	100,000	0	0	0	0	0
* 114	Fuel Tank Compliance		D,C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0
	Sub-total			32,840,000	16,565,800	11,069,200	11,069,200	10,350	166,050	675	47,925	4,980,000
D	IT INFRASTRUCTURE											
	Sub-total			0	0	0	0	0	0	0	0	0
E	ALLOWANCES AND OTHER PROVISIONS											
117	Inflow/infiltration studies in various locations		D,C	500,000	0	500,000	500,000	0	0	0	0	0
119	Asset Condition Assessments - Report		D	300,000	0	0	0	0	0	0	0	300,000
120	Asset Condition Assessment/Investigation Trunk Sanitary Sewer Systems		D	200,000	0	0	0	0	0	0	0	200,000
122	Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0
123	Allowance for engineering studies		D	250,000	0	250,000	250,000	0	0	0	0	0
125	Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0
126	Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0
127	Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
128	Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
129	Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460,000	0	0	0	67,160	1,077,480	4,380	310,980	0
130	Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400,000	0	0	0	18,400	295,200	1,200	85,200	0
131	Allowance for intensification		D,C	350,000	0	0	0	16,100	258,300	1,050	74,550	0
	Sub-total			3,925,000	0	1,215,000	1,215,000	101,660	1,630,980	6,630	470,730	500,000
	<b>Total Cost Attribution</b>			<b>68,949,700</b>	<b>16,565,800</b>	<b>16,462,900</b>	<b>16,462,900</b>	<b>1,274,950</b>	<b>20,012,550</b>	<b>83,075</b>	<b>5,904,425</b>	<b>8,646,000</b>
	<b>DC Revenue Shortfall to be financed from User Revenue</b>											
	Institutional Charges and Industrial Charges											
	<b>Other Financing - Regional Municipality of York:</b>											
	Duffin Creek Water Pollution Control Plant - Digest mixing improvements & MCC Item 96				738,000	0	0	0	0	0	0	0
	Duffin Creek Water Pollution Control Plant - replacement of Reactor 1 & 2, Pickering Item 97				14,760,000	0	0	0	0	0	0	0
	Regional Environmental Laboratory Upgrades, Pickering Item 98				225,000	0	0	0	0	0	0	0
	Duffin Creek Water Pollution Control Plant - remedial works & improvements Item 101				400,000							
	Duffin Creek WPCP - Reactor 3 & 4 refractory and dome replacement, Pickering Item 102				442,800							
	Duffin Creek WPCP - Blower Building 1 & 2 control system replacement, Pickering Item 103											
	Subtotal:				16,565,800	0	0	0	0	0	0	0
	<b>Total financing (including available Development Charge financing)</b>				<b>16,565,800</b>	<b>0</b>	<b>22,450,400</b>	<b>1,274,950</b>	<b>20,012,550</b>	<b>0</b>	<b>0</b>	<b>8,646,000</b>

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2021 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund	
					Benefit to Existing	Total User Revenue						E
A	B	C	D	E	F	G	H	I				
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
* 2 R.R. 16 (Ritson Rd.) from Conlin Rd. to Taunton Rd., Oshawa		D	200,000	0	200,000	200,000	0	0	0	0	0	0
8 R.R. 57 (Bowmanville Ave.) from Baseline Rd. to Nash Rd., Bowmanville	307	C	475,000	0	0	0	21,850	350,550	1,425	101,175	0	0
* 9 R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa		C	370,000	0	370,000	370,000	0	0	0	0	0	0
11 Allowance for sanitary sewers in conjunction with Regional Roads		D,C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0	0
Sub-total			2,045,000	0	1,570,000	1,570,000	21,850	350,550	1,425	101,175	0	0
<b>Area Municipality Road Programs</b>												
12A City of Pickering Road Program		D,C	235,000	0	235,000	235,000	0	0	0	0	0	0
12B Town of Ajax Road Program		D,C	385,000	0	385,000	385,000	0	0	0	0	0	0
12C Town of Whitby Road Program		D,C	600,000	0	600,000	600,000	0	0	0	0	0	0
12D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
12E Municipality of Clarington Road Program		D,C	300,000	0	300,000	300,000	0	0	0	0	0	0
12F Township of Scugog Road Program		D,C	75,000	0	75,000	75,000	0	0	0	0	0	0
12G Township of Uxbridge Road Program		D,C	340,000	0	340,000	340,000	0	0	0	0	0	0
12H Township of Brock Road Program		D,C	120,000	0	120,000	120,000	0	0	0	0	0	0
12I Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			3,355,000	0	3,355,000	3,355,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
* 13 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0
<b>Betterments/Replacements</b>												
Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations		D,C	650,000	0	650,000	650,000	0	0	0	0	0	0
15 Rehabilitation of existing sanitary sewers in various locations		D,C	460,000	0	0	0	0	0	0	0	0	460,000
16 YDSS – Rehabilitation of the trunk sanitary sewer		D,C	66,000,000	59,400,000	6,600,000	6,600,000	0	0	0	0	0	0
17 Replacement of ss on Krosno Blvd. from Modlin Rd. to Alyssum St., Pickering		C	780,000	0	0	0	0	0	0	0	0	780,000
25 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			68,090,000	59,400,000	7,450,000	7,450,000	0	0	0	0	0	1,240,000
<b>System Expansion</b>												
* 29 Diversion sewer on Hunt St. from Westney Rd. to Harwood Ave., Ajax		D	300,000	0	0	0	13,800	221,400	900	63,900	0	0
* 33 Brooklin TSS on easement from Anderson St. to Thickson Rd. SSPS, Whitby	226	D	900,000	0	0	0	41,400	664,200	2,700	191,700	0	0
* 35 Southwest Brooklin TSS from Cochrane St. to Highway 12, Whitby	228	C	15,800,000	0	0	0	726,800	11,660,400	47,400	3,365,400	0	0
* 40 Thickson Rd. sub-TSS from Glengowan St. to Conlin Rd., Whitby	233	C	3,200,000	0	0	0	147,200	2,361,600	9,600	681,600	0	0
* 42 Conlin Rd. W. TSS on W/O Boundary to Conlin Rd. SSPS, Whitby	219	D	800,000	0	0	0	36,800	590,400	2,400	170,400	0	0
* 44 Twinning of NW branch of Harmony Creek trunk sewer, Oshawa		C	2,150,000	0	2,150,000	2,150,000	0	0	0	0	0	0
* 48 Conlin Rd. FM from Ritson Rd. to Harmony Rd., Oshawa	221	D	800,000	0	0	0	36,800	590,400	2,400	170,400	0	0
* 49 Harmony Rd. Sub Trunk Conlin Rd. to 1500 m Northerly, Oshawa	225	D	420,000	0	0	0	19,320	309,960	1,260	89,460	0	0
* 51 North Oshawa Creek West Branch TSS hydro corridor to Columbus, Oshawa	217	EA	3,000,000	0	0	0	138,000	2,214,000	9,000	639,000	0	0
53 SW Courtice Sub -TSS on Baseline Rd. from Trulls Rd. to 650 m W. Trulls Rd., Courtice	209	C	3,850,000	0	0	0	177,100	2,841,300	11,550	820,050	0	0
Sub-total			31,220,000	0	2,150,000	2,150,000	1,337,220	21,453,660	87,210	6,191,910	0	0

## 2021 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund
					Benefit to Existing	Total User Revenue					
A	B	C	D	E	F	G	H	I			
<b>B BUILDINGS</b>											
* 65 Carruthers Sanitary Sewage Pumping Station pump and Standby power, Ajax	101	C	1,760,000	0	0	0	80,960	1,298,880	5,280	374,880	0
* 66 Corbett Creek Water Pollution Control Plant - rectify existing deficiencies, Whitby	201	C	6,000,000	0	0	0	498,000	3,162,000	30,000	2,310,000	0
* 69 Proposed Thickson Rd. SSPS and FM, Whitby - Diversion Strategy	203	D	3,500,000	0	0	0	161,000	2,583,000	10,500	745,500	0
* 70 Harmony Creek Water Pollution Control Plant - Demolition Plant No. 1		C	2,200,000	0	2,200,000	2,200,000	0	0	0	0	0
* 72 Proposed Conlin Rd. Sanitary Sewage Pumping Station - expansion and FM, Oshawa	207	D	1,000,000	0	0	0	46,000	738,000	3,000	213,000	0
* 74 Simcoe St. Sanitary Sewage Pumping Station - replacement and FM, Oshawa	204	C	4,600,000	0	243,800	243,800	200,790	3,215,400	12,558	927,452	0
* 77 Proposed Baseline Rd. Sanitary Sewage Pumping Station, Courtice	208	EA	500,000	0	0	0	23,000	369,000	1,500	106,500	0
* 79 Newcastle Water Pollution Control Plant - Capacity Re-rating from 4 MLD to 7 MLD	308	C	5,200,000	0	0	0	430,560	2,740,400	27,040	2,002,000	0
81 Decommission Rudell Rd. SSPS, Newcastle		C	550,000	0	550,000	550,000	0	0	0	0	0
83 Uxbridge Water Pollution Control Plant - Optimization Study, upgrades & rehabilitation		C	2,500,000	0	2,500,000	2,500,000	0	0	0	0	0
85 Water St. Sanitary Sewage Pumping Station - expansion/replacement	401	C	17,961,000	0	5,559,161	5,559,161	338,487	5,423,696	21,143	1,563,513	5,055,000
87 Sunderland Water Pollution Control Plant - Lagoon System	600	D	500,000	0	250,000	250,000	20,700	131,750	1,300	96,250	0
89 Cannington Water Pollution Control Plant - Lagoon System	601	D	500,000	0	250,000	250,000	20,700	131,750	1,300	96,250	0
* 94 Septage receiving stations, Region Wide		D	250,000	0	250,000	250,000	0	0	0	0	0
Sub-total			47,021,000	0	11,802,961	11,802,961	1,820,197	19,793,876	113,621	8,435,345	5,055,000
<b>C MACHINERY AND EQUIPMENT</b>											
* 96 Duffin Creek Water Pollution Control Plant - Digest mixing improvements & MCC		C	16,000,000	11,808,000	4,192,000	4,192,000	0	0	0	0	0
* 97 Duffin Creek Water Pollution Control Plant - replacement of Reactor 1 & 2, Pickering		C	24,900,000	18,376,200	6,523,800	6,523,800	0	0	0	0	0
* 100 Duffin Creek Water Pollution Control Plant - Phosphorous implementation plan		C	3,450,000	2,760,000	690,000	690,000	0	0	0	0	0
* 101 Duffin Creek Water Pollution Control Plant - remedial works & improvements		C	1,000,000	800,000	200,000	200,000	0	0	0	0	0
* 103 Duffin Creek WPCP - Blower Building 1 & 2 control system replacement, Pickering		C	1,040,000	960,000	80,000	80,000	0	0	0	0	0
* 104 Duffin Creek WPCP - Asset Management Remediation and rehabilitation works		D,C	2,000,000	1,476,000	524,000	524,000	0	0	0	0	0
* 106 Cloveridge SSPS - Bar Screen Replacement & MCC review and upgrades		D	500,000	0	500,000	500,000	0	0	0	0	0
* 110 Courtice Water Pollution Control Plant - Plant upgrades		D	350,000	0	350,000	350,000	0	0	0	0	0
* 111 Port Darlington Water Pollution Control Plant- Major Maintenance Replacement work		D,C	1,851,000	0	0	0	0	0	0	0	1,851,000
Sub-total			51,091,000	36,180,200	13,059,800	13,059,800	0	0	0	0	1,851,000
<b>D IT INFRASTRUCTURE</b>											
Sub-total											
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
117 Inflow/infiltration studies in various locations		D,C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0
118 Emergency Planning updating		D	100,000	0	100,000	100,000	0	0	0	0	0
119 Asset Condition Assessments - Report		D	300,000	0	0	0	0	0	0	0	300,000
120 Asset Condition Assessment/Investigation Trunk Sanitary Sewer Systems		D	200,000	0	0	0	0	0	0	0	200,000
121 Master planning energy management		D,C	200,000	0	200,000	200,000	0	0	0	0	0
122 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0
123 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0
125 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0
126 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0
127 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
128 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
129 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460,000	0	0	0	67,160	1,077,480	4,380	310,980	0
130 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400,000	0	0	0	18,400	295,200	1,200	85,200	0
131 Allowance for intensification		D,C	350,000	0	0	0	16,100	258,300	1,050	74,550	0
Sub-total			4,625,000	0	1,915,000	1,915,000	101,660	1,630,980	6,630	470,730	500,000
<b>Total Cost Attribution</b>			<b>207,547,000</b>	<b>95,580,200</b>	<b>41,402,761</b>	<b>41,402,761</b>	<b>3,280,927</b>	<b>43,229,066</b>	<b>208,886</b>	<b>15,199,160</b>	<b>8,646,000</b>

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2022 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund
					Benefit to Existing	Total User Revenue					
A	B	C	D	E	F	G	H	I			
<b>LINEAR INFRASTRUCTURE</b>											
<b>Regional Road Program</b>											
* 1 R.R.14 (Liberty St.) from Baseline Rd. to King St., Bowmanville		C	1,450,000	0	1,450,000	1,450,000	0	0	0	0	
* 3 R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax		D	250,000	0	250,000	250,000	0	0	0	0	
* 6 R.R. 52 (Thornton Rd.) from King St. to Stellar Dr., Oshawa		D	60,000	0	60,000	60,000	0	0	0	0	
7 R.R. 53 (Stevenson Rd.) from Hwy 401 to Bond St., Oshawa		C	720,000	0	720,000	720,000	0	0	0	0	
Sub-total			2,480,000	0	2,480,000	2,480,000	0	0	0	0	
<b>Area Municipality Road Programs</b>											
12A City of Pickering Road Program		D,C	235,000	0	235,000	235,000	0	0	0	0	
12B Town of Ajax Road Program		D,C	365,000	0	365,000	365,000	0	0	0	0	
12C Town of Whitby Road Program		D,C	600,000	0	600,000	600,000	0	0	0	0	
12D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	
12E Municipality of Clarington Road Program		D,C	300,000	0	300,000	300,000	0	0	0	0	
12F Township of Scugog Road Program		D,C	75,000	0	75,000	75,000	0	0	0	0	
12G Township of Uxbridge Road Program		D,C	340,000	0	340,000	340,000	0	0	0	0	
12H Township of Brock Road Program		D,C	120,000	0	120,000	120,000	0	0	0	0	
12i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	
Sub-total			3,335,000	0	3,335,000	3,335,000	0	0	0	0	
<b>MTO &amp; GO Transit projects</b>											
* 13 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	
Sub-total			100,000	0	100,000	100,000	0	0	0	0	
<b>Betterments/Replacements</b>											
14 Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations		D,C	650,000	0	650,000	650,000	0	0	0	0	
15 Rehabilitation of existing sanitary sewers in various locations		D,C	500,000	0	0	0	0	0	0	500,000	
20 Replacement of sewer on Walnut St. from Euclid St. to Kent St., Whitby		D,C	185,000	0	0	0	0	0	0	185,000	
25 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	
Sub-total			1,535,000	0	850,000	850,000	0	0	0	685,000	
<b>System Expansion</b>											
* 26 Duffin Creek - YDSS primary trunk sanitary sewer twinning, Pickering	104	EA	16,000,000	12,800,000	0	0	147,200	2,361,600	9,600	681,600	0
28 Sanitary Sewer on Church St. from Hydro Right of Way to Taunton Rd., Ajax	109	D	200,000	0	0	0	9,200	147,600	600	42,600	0
* 29 Diversion sewer on Hunt St. from Westney Rd. to Harwood Ave., Ajax		C	2,825,000	0	0	0	129,950	2,084,850	8,475	601,725	0
* 32 West Whitby sub trunk on Dundas St. from Des Newman Blvd. to Halls Rd., Whitby	222	D	600,000	0	60,000	60,000	24,900	398,400	1,560	115,140	0
* 49 Harmony Rd. Sub Trunk Conlin Rd. to 1500 m Northerly, Oshawa	225	C	3,950,000	0	0	0	181,700	2,915,100	11,850	841,350	0
50 North Oshawa Creek West Branch TSS fr Conlin SSPS to Britannia Rd., Oshawa	216	D	750,000	0	0	0	34,500	553,500	2,250	159,750	0
* 52 Courtice Sanitary Trunk Sewer Phase 4, Courtice	211	C	44,800,000	0	0	0	2,060,800	33,062,400	134,400	9,542,400	0
* 55 Baseline Rd. TSS from Simpson Ave. to Bennett Rd., Bowmanville	302	C	4,000,000	0	0	0	184,000	2,952,000	12,000	852,000	0
* 57 Port Darlington Rd. TSS from Baseline Rd. to easement, Bowmanville	305	C	7,370,000	0	0	0	339,020	5,439,060	22,110	1,569,810	0
* 60 Foster Creek TSS on North St. from N. CPR to Concession Rd. 3, Newcastle	312	C	2,600,000	0	0	0	119,600	1,918,800	7,800	553,800	0
Sub-total			83,095,000	12,800,000	60,000	60,000	3,230,870	51,833,310	210,645	14,960,175	0

## 2022 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund
					Benefit to Existing	Total User Revenue					
			A	B	C	D	E	F	G	H	I
<b>B BUILDINGS</b>											
* 67 Corbett Creek Water Pollution Control Plant - New Headworks Building, Whitby		C	5,100,000	0	5,100,000	5,100,000	0	0	0	0	0
* 68 Corbett Creek Water Pollution Control Plant - expansion from 84 MLD to 109 MLD, Whitby	200	D	1,500,000	0	1,425,000	1,425,000	6,300	39,000	450	29,250	0
* 75 Madawaska Sanitary Sewage Pumping Station - pumping station replacement, Oshawa		EA	500,000	0	0	0	23,000	369,000	1,500	106,500	0
* 77 Proposed Baseline Rd. Sanitary Sewage Pumping Station, Courtice	208	D	400,000	0	0	0	18,400	295,200	1,200	85,200	0
79 Newcastle Water Pollution Control Plant - Capacity Re-rating from 4 MLD to 7 MLD	308	C	3,000,000	0	0	0	248,400	1,581,000	15,600	1,155,000	0
87 Sunderland Water Pollution Control Plant - Lagoon System	600	C	9,300,000	0	4,650,000	4,650,000	385,020	2,450,550	24,180	1,790,250	0
89 Cannington Water Pollution Control Plant - Lagoon System	601	C	9,300,000	0	4,650,000	4,650,000	385,020	2,450,550	24,180	1,790,250	0
* 94 Septage receiving stations, Region Wide		C	1,550,000	0	1,550,000	1,550,000	0	0	0	0	0
Sub-total			30,650,000	0	17,375,000	17,375,000	1,066,140	7,185,300	67,110	4,956,450	0
<b>C MACHINERY AND EQUIPMENT</b>											
* 97 Duffin Creek Water Pollution Control Plant - replacement of Reactor 1&2, Pickering		C	40,100,000	29,593,800	10,506,200	10,506,200	0	0	0	0	0
99 Duffin Creek WPCP- condition assessment and Asset Plan update, Pickering		D	200,000	153,800	46,200	46,200	0	0	0	0	0
* 101 Duffin Creek Water Pollution Control Plant - remedial works & improvements, Pickering		C	13,000,000	10,400,000	2,600,000	2,600,000	0	0	0	0	0
* 106 Cloveridge Sanitary Sewage Pumping Station - Bar Screen & MCC review, Ajax		C	2,200,000	0	2,200,000	2,200,000	0	0	0	0	0
* 110 Courtice Water Pollution Control Plant - Plant upgrades		D	500,000	0	500,000	500,000	0	0	0	0	0
* 111 Port Darlington Water Pollution Control Plant- Major Maintenance Replacement work		C	6,461,000	0	0	0	0	0	0	0	6,461,000
Sub-total			62,461,000	40,147,600	15,852,400	15,852,400	0	0	0	0	6,461,000
<b>D IT INFRASTRUCTURE</b>											
115 SCADA System Master Plan for Sanitary Sewage Pumping Stations		D	1,000,000	0	0	0	0	0	0	0	1,000,000
Sub-total			1,000,000	0	0	0	0	0	0	0	1,000,000
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
116 Regional Sewerage Master Planning Study	700	D,C	800,000	0	0	0	36,800	590,400	2,400	170,400	0
117 Inflow/infiltration studies in various locations		D,C	500,000	0	500,000	500,000	0	0	0	0	0
119 Asset Condition Assessments - Report		D	300,000	0	0	0	0	0	0	0	300,000
120 Asset Condition Assessment/Investigation Trunk Sanitary Sewer Systems		D	200,000	0	0	0	0	0	0	0	200,000
122 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0
123 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0
125 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0
126 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0
127 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
128 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
129 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460,000	0	0	0	67,160	1,077,480	4,380	310,980	0
130 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400,000	0	0	0	18,400	295,200	1,200	85,200	0
131 Allowance for intensification		D,C	350,000	0	0	0	16,100	258,300	1,050	74,550	0
Sub-total			4,625,000	0	1,115,000	1,115,000	138,460	2,221,380	9,030	641,130	500,000
<b>Total Cost Attribution</b>			<b>189,281,000</b>	<b>52,947,600</b>	<b>41,167,400</b>	<b>41,167,400</b>	<b>4,435,470</b>	<b>61,239,990</b>	<b>286,785</b>	<b>20,557,755</b>	<b>8,646,000</b>

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2023 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
<b>A LINEAR INFRASTRUCTURE</b>											
<b>Regional Road Program</b>											
* 2 R.R. 16 (Ritson Rd.) from Conlin Rd. to Taunton Rd., Oshawa		C	1,125,000	0	1,125,000	1,125,000	0	0	0	0	0
11 Allowance for sanitary sewers in conjunction with Regional Roads		D,C	1,000,000	0	1,000,000	1,000,000	0	0	0	0	0
Sub-total			2,125,000	0	2,125,000	2,125,000	0	0	0	0	0
<b>Area Municipality Road Programs</b>											
12A City of Pickering Road Program		D,C	235,000	0	235,000	235,000	0	0	0	0	0
12B Town of Ajax Road Program		D,C	2,350,000	0	0	0	108,100	1,734,300	7,050	500,550	0
12C Town of Whitby Road Program		D,C	600,000	0	600,000	600,000	0	0	0	0	0
12D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0
12E Municipality of Clarington Road Program		D,C	300,000	0	300,000	300,000	0	0	0	0	0
12F Township of Scugog Road Program		D,C	75,000	0	75,000	75,000	0	0	0	0	0
12G Township of Uxbridge Road Program		D,C	340,000	0	340,000	340,000	0	0	0	0	0
12H Township of Brock Road Program		D,C	120,000	0	120,000	120,000	0	0	0	0	0
12i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0
Sub-total			5,320,000	0	2,970,000	2,970,000	108,100	1,734,300	7,050	500,550	0
<b>MTO &amp; GO Transit projects</b>											
* 13 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0
<b>Betterments/Replacements</b>											
14 Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations		D,C	650,000	0	650,000	650,000	0	0	0	0	0
15 Rehabilitation of existing sanitary sewers in various locations		D,C	500,000	0	0	0	0	0	0	0	500,000
24 Replacement of sanitary sewers in various locations		D,C	6,196,000	0	0	0	0	0	0	0	6,196,000
25 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0
Sub-total			7,546,000	0	850,000	850,000	0	0	0	0	6,696,000
<b>System Expansion</b>											
28 Sanitary Sewer on Church St. from Hydro Right of Way to Taunton Rd., Ajax	109	C	3,070,000	0	0	0	141,220	2,265,660	9,210	653,910	0
* 32 West Whitby sub trunk on Dundas St. from Des Newman Blvd. to Halls Rd., Whitby	222	C	3,000,000	0	300,000	300,000	124,500	1,992,000	7,800	575,700	0
* 33 Brooklin TSS on easement from Anderson St. to Thickson SSPS, W	226	C	3,650,000	0	0	0	167,900	2,693,700	10,950	777,450	0
* 34 West Brooklin TSS from Cochrane St. to east Highway 12, Whitby	227	C	10,100,000	0	0	0	464,600	7,453,800	30,300	2,151,300	0
* 35 Southwest Brooklin TSS from Cochrane St. to highway 12, Whitby	228	C	11,225,000	0	0	0	516,350	8,284,050	33,675	2,390,925	0
* 42 Conlin Rd. W TSS on W/O Boundary to Conlin Rd. SSPS, Whitby	219	C	6,000,000	0	0	0	276,000	4,428,000	18,000	1,278,000	0
* 48 Conlin Rd. FM from Ritson Rd. to Harmony Rd., Oshawa	221	C	7,450,000	0	0	0	342,700	5,498,100	22,350	1,586,850	0
* 51 North Oshawa Creek West Branch TSS hydro corridor to Columbus Rd., Oshawa	217	D	1,750,000	0	0	0	80,500	1,291,500	5,250	372,750	0
54 SE Courtice Sub-TSS on easement N of CPR from Trulls Rd. to Courtice Rd./ Courtice Rd. from N of CPR to Bloor St., Courtice	209	C	4,800,000	0	0	0	220,800	3,542,400	14,400	1,022,400	0
Sub-total			51,045,000	0	300,000	300,000	2,334,570	37,449,210	151,935	10,809,285	0

## 2023 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
<b>B BUILDINGS</b>											
* 69 Proposed Thickson Rd SSPS and FM, Whitby - Diversion Strategy	203	C	24,800,000	0	0	0	1,140,800	18,302,400	74,400	5,282,400	0
* 71 Harmony Creek SSPS - expansion and twinning of forcemain, Oshawa	206	EA	600,000	0	0	0	27,600	442,800	1,800	127,800	0
72 Conlin Rd. Sanitary Sewage Pumping Station - expansion and FM, Oshawa	207	C	66,000,000	0	0	0	3,036,000	48,708,000	198,000	14,058,000	0
76 Courtice Water Pollution Control Plant - Plant expansion from 68 MLD to 136 MLD	202	EA	1,000,000	0	682,000	682,000	26,300	168,000	1,600	122,100	0
* 77 Proposed Baseline Rd. Sanitary Sewage Pumping Station, Courtice	208	C	3,400,000	0	0	0	156,400	2,509,200	10,200	724,200	0
* 84 Uxbridge WPCP - rehabilitation works		D	450,000	0	0	0	0	0	0	0	450,000
Sub-total			96,250,000	0	682,000	682,000	4,387,100	70,130,400	286,000	20,314,500	450,000
<b>C MACHINERY AND EQUIPMENT</b>											
* 97 Duffin Creek Water Pollution Control Plant - replacement of Reactor 1&2, Pickering		C	24,900,000	18,376,200	6,523,800	6,523,800	0	0	0	0	0
99 Duffin Creek WPCP- condition assessment and Asset Plan update, Pickering		D	300,000	230,700	69,300	69,300	0	0	0	0	0
* 104 Duffin Creek WPCP - Asset Management Remediation and rehabilitation works		D,C	5,000,000	3,690,000	1,310,000	1,310,000	0	0	0	0	0
Sub-total			30,200,000	22,296,900	7,903,100	7,903,100	0	0	0	0	0
<b>D IT INFRASTRUCTURE</b>											
115 SCADA System Master Plan for Sanitary Sewage Pumping Stations		D	1,000,000	0	0	0	0	0	0	0	1,000,000
Sub-total			1,000,000	0	0	0	0	0	0	0	1,000,000
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
117 Inflow/infiltration studies in various locations		D,C	500,000	0	500,000	500,000	0	0	0	0	0
119 Asset Condition Assessments - Report		D	300,000	0	0	0	0	0	0	0	300,000
120 Asset Condition Assessment/Investigation Trunk Sanitary Sewer Systems		D	200,000	0	0	0	0	0	0	0	200,000
122 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0
123 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0
125 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0
126 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0
127 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
128 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
129 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460,000	0	0	0	67,160	1,077,480	4,380	310,980	0
130 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400,000	0	0	0	18,400	295,200	1,200	85,200	0
131 Allowance for intensification		D,C	350,000	0	0	0	16,100	258,300	1,050	74,550	0
Sub-total			3,825,000	0	1,115,000	1,115,000	101,660	1,630,980	6,630	470,730	500,000
<b>Total Cost Attribution</b>			<b>197,411,000</b>	<b>22,296,900</b>	<b>16,045,100</b>	<b>16,045,100</b>	<b>6,931,430</b>	<b>110,944,890</b>	<b>451,615</b>	<b>32,095,065</b>	<b>8,646,000</b>

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2024 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund	
					Benefit to Existing	Total User Revenue						E
A	B	C	D	E	F	G	H	I				
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
* 3 R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax		C	1,930,000	0	1,930,000	1,930,000	0	0	0	0	0	0
4 R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby		D	215,000	0	215,000	215,000	0	0	0	0	0	0
5 R.R. 37 (Finch Ave.) from Altona Rd. to Brock Rd., Pickering		D	60,000	0	60,000	60,000	0	0	0	0	0	0
* 6 R.R. 52 (Thornton Rd.) from King St. to Stellar Dr., Oshawa		C	140,000	0	140,000	140,000	0	0	0	0	0	0
* 10 R.R. 59 (Gibb St./Olive Ave. ext. from Drew St. to Ritson Rd., Oshawa		C	470,000	0	470,000	470,000	0	0	0	0	0	0
Sub-total			2,815,000	0	2,815,000	2,815,000	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
12A City of Pickering Road Program		D,C	235,000	0	235,000	235,000	0	0	0	0	0	0
12B Town of Ajax Road Program		D,C	365,000	0	365,000	365,000	0	0	0	0	0	0
12C Town of Whitby Road Program		D,C	600,000	0	600,000	600,000	0	0	0	0	0	0
12D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
12E Municipality of Clarington Road Program		D,C	300,000	0	300,000	300,000	0	0	0	0	0	0
12F Township of Scugog Road Program		D,C	75,000	0	75,000	75,000	0	0	0	0	0	0
12G Township of Uxbridge Road Program		D,C	340,000	0	340,000	340,000	0	0	0	0	0	0
12H Township of Brock Road Program		D,C	120,000	0	120,000	120,000	0	0	0	0	0	0
12I Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			3,335,000	0	3,335,000	3,335,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
* 13 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0
<b>Betterments/Replacements</b>												
Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations		D,C	650,000	0	650,000	650,000	0	0	0	0	0	0
15 Rehabilitation of existing sanitary sewers in various locations		D,C	500,000	0	0	0	0	0	0	0	0	500,000
19 Replacement of sanitary sewer on Maria St. from Annes St. to Frances St., Whitby		D,C	620,000	0	0	0	0	0	0	0	0	620,000
24 Replacement of sanitary sewers in various locations		D,C	6,026,000	0	0	0	0	0	0	0	0	6,026,000
25 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			7,996,000	0	850,000	850,000	0	0	0	0	0	7,146,000
<b>System Expansion</b>												
* 26 Duffin Creek - YDSS primary trunk sewer twinning, Pickering	104	D	20,000,000	16,000,000	0	0	184,000	2,952,000	12,000	852,000	0	0
* 50 North Oshawa Creek West Branch TSS fr Conlin SSPS to Britannia Rd., Oshawa	216	C	4,000,000	0	0	0	184,000	2,952,000	12,000	852,000	0	0
* 52 Courtyce TSS - Phase 5, Courtyce	212	C	15,200,000	0	0	0	699,200	11,217,600	45,600	3,237,600	0	0
Sub-total			39,200,000	16,000,000	0	0	1,067,200	17,121,600	69,600	4,941,600	0	0
<b>B BUILDINGS</b>												
* 64 Proposed Pickering Sanitary Sewage Pumping Station and forcemain, Pickering	102	EA	3,000,000	0	0	0	138,000	2,214,000	9,000	639,000	0	0
* 73 Harbour Rd. S Sanitary Sewage Pumping Station and forcemain replacement, Oshawa	205	EA	1,500,000	0	0	0	69,000	1,107,000	4,500	319,500	0	0
* 75 Madawaska Sanitary Sewage Pumping Station - pumping station replacement, Oshawa		D	500,000	0	0	0	23,000	369,000	1,500	106,500	0	0
82 Decommission Sunset Sanitary Sewage Pumping Station, Newcastle		D,C	620,000	0	620,000	620,000	0	0	0	0	0	0
* 86 Port Perry Industrial Area Sanitary Sewage Pumping Station and FM, Scugog	402	EA	1,500,000	0	391,500	391,500	51,110	818,100	3,194	236,095	0	0
95 Water Pollution Control Plant - Asset Management Remediation and Rehabilitation works		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	0
Sub-total			12,120,000	0	6,011,500	6,011,500	281,110	4,508,100	18,194	1,301,095	0	0



## 2024 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>C MACHINERY AND EQUIPMENT</b>												
* 104 Duffin Creek WPCP - Asset Management Remediation and rehabilitation works		D,C	6,000,000	4,428,000	1,572,000	1,572,000	0	0	0	0	0	0
* 110 Courtice Water Pollution Control Plant - upgrades		D,C	4,130,000	0	4,130,000	4,130,000	0	0	0	0	0	0
Sub-total			10,130,000	4,428,000	5,702,000	5,702,000	0	0	0	0	0	0
<b>D IT INFRASTRUCTURE</b>												
115 SCADA System Master Plan for Sanitary Sewage Pumping Stations		D	1,000,000	0	0	0	0	0	0	0	0	1,000,000
Sub-total			1,000,000	0	0	0	0	0	0	0	0	1,000,000
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
117 Inflow/infiltration studies in various locations		D,C	500,000	0	500,000	500,000	0	0	0	0	0	0
119 Asset Condition Assessments - Report		D	300,000	0	0	0	0	0	0	0	0	300,000
120 Asset Condition Assessment/Investigation Trunk Sanitary Sewer Systems		D	200,000	0	0	0	0	0	0	0	0	200,000
122 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	0
123 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0	0
124 Phosphorus Reduction Study for Lake Simcoe Water Pollution Control Plants.		D	250,000	0	250,000	250,000	0	0	0	0	0	0
125 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	0
126 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	0
127 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
128 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
129 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460,000	0	0	0	67,160	1,077,480	4,380	310,980	0	0
130 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400,000	0	0	0	18,400	295,200	1,200	85,200	0	0
131 Allowance for intensification		D,C	350,000	0	0	0	16,100	258,300	1,050	74,550	0	0
Sub-total			4,075,000	0	1,365,000	1,365,000	101,660	1,630,980	6,630	470,730	500,000	0
<b>Total Cost Attribution</b>			<b>80,771,000</b>	<b>20,428,000</b>	<b>20,178,500</b>	<b>20,178,500</b>	<b>1,449,970</b>	<b>23,260,680</b>	<b>94,424</b>	<b>6,713,425</b>	<b>8,646,000</b>	

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2025 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund	
					Benefit to Existing	Total User Revenue						E
A	B	C	D	E	F	G	H	I				
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
11 Allowance for Sanitary sewers in conjunction with Regional Roads		D,C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
Sub-total			2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
12A City of Pickering Road Program		D,C	235,000	0	235,000	235,000	0	0	0	0	0	0
12B Town of Ajax Road Program		D,C	365,000	0	365,000	365,000	0	0	0	0	0	0
12C Town of Whitby Road Program		D,C	600,000	0	600,000	600,000	0	0	0	0	0	0
12D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
12E Municipality of Clarington Road Program		D,C	300,000	0	300,000	300,000	0	0	0	0	0	0
12F Township of Scugog Road Program		D,C	75,000	0	75,000	75,000	0	0	0	0	0	0
12G Township of Uxbridge Road Program		D,C	340,000	0	340,000	340,000	0	0	0	0	0	0
12H Township of Brock Road Program		D,C	120,000	0	120,000	120,000	0	0	0	0	0	0
12i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			3,335,000	0	3,335,000	3,335,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
* 13 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0
<b>Betterments/Replacements</b>												
14 Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations		D,C	650,000	0	650,000	650,000	0	0	0	0	0	0
15 Rehabilitation of existing sanitary sewers in various locations		D,C	500,000	0	0	0	0	0	0	0	500,000	0
24 Replacement of sanitary sewers in various locations		D,C	6,646,000	0	0	0	0	0	0	0	0	6,646,000
25 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			7,996,000	0	850,000	850,000	0	0	0	0	0	7,146,000
<b>System Expansion</b>												
* 31 Corbett TSS on easement from Wentworth Ave. to Corbett Creek WPCP, Whitby	224	EA	500,000	0	0	0	23,000	369,000	1,500	106,500	0	0
* 41 Ash Creek TSS Consumers Dr./Green Rd. to the former Pringle Creek WPCP, Whitby	223	EA	1,000,000	0	0	0	46,000	738,000	3,000	213,000	0	0
* 45 North Oshawa Creek (east branch) TSS, Oshawa	218	C	4,500,000	0	0	0	207,000	3,321,000	13,500	958,500	0	0
* 51 North Oshawa Creek West Branch TSS hydro corridor to Columbus Rd., Oshawa	217	C	14,275,000	0	0	0	656,650	10,534,950	42,825	3,040,575	0	0
* 52 Courtice TSS - Phase 7, Courtice	213	C	15,400,000	0	0	0	708,400	11,365,200	46,200	3,280,200	0	0
Sub-total			35,675,000	0	0	0	1,641,050	26,328,150	107,025	7,598,775	0	0
<b>B BUILDINGS</b>												
* 63 Duffin Creek Water Pollution Control Plant - New or expanded outfall	100	D	8,000,000	6,790,400	937,600	937,600	22,560	143,360	1,440	104,640	0	0
* 64 Proposed Pickering Sanitary Sewage Pumping Station and forcemain, Pickering	102	D	1,000,000	0	0	0	46,000	738,000	3,000	213,000	0	0
* 71 Harmony Creek SSPS - expansion and twinning of forcemain, Oshawa	206	D	1,500,000	0	0	0	69,000	1,107,000	4,500	319,500	0	0
* 76 Courtice Water Pollution Control Plant - Plant expansion from 68 MLD to 136 MLD	202	D	1,500,000	0	1,023,000	1,023,000	39,450	252,000	2,400	183,150	0	0
* 84 Uxbridge Water Pollution Control Plant - Rehabilitation works, Uxbridge		C	1,000,000	0	0	0	0	0	0	0	1,000,000	0
* 93 Beaverton Employment lands Sanitary Sewage Pumping Station, Brock	603	EA	1,000,000	0	100,000	100,000	75,000	474,000	5,000	346,000	0	0
* 95 Water Pollution Control Plant - Asset Management Remediation and Rehabilitation works		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	0
Sub-total			19,000,000	6,790,400	7,060,600	7,060,600	252,010	2,714,360	16,340	1,166,290	1,000,000	0
<b>C MACHINERY AND EQUIPMENT</b>												
* 97 Duffin Creek Water Pollution Control Plant - replacement of Reactor 1&2, Pickering		C	40,100,000	29,593,800	10,506,200	10,506,200	0	0	0	0	0	0
* 104 Duffin Creek WPCP - Asset Management Remediation and rehabilitation works		D,C	6,000,000	4,428,000	1,572,000	1,572,000	0	0	0	0	0	0
Sub-total			46,100,000	34,021,800	12,078,200	12,078,200	0	0	0	0	0	0

## 2025 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0	0	0	0	0	0	0	0	0
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
117 Inflow/infiltration studies in various locations		D,C	500,000	0	500,000	500,000	0	0	0	0	0	0
119 Asset Condition Assessments - Report		D	300,000	0	0	0	0	0	0	0	0	300,000
120 Asset Condition Assessment/Investigation Trunk Sanitary Sewer Systems		D	200,000	0	0	0	0	0	0	0	0	200,000
122 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	0
123 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0	0
125 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	0
126 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	0
127 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
128 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
129 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460,000	0	0	0	67,160	1,077,480	4,380	310,980	0	0
130 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400,000	0	0	0	18,400	295,200	1,200	85,200	0	0
131 Allowance for intensification		D,C	350,000	0	0	0	16,100	258,300	1,050	74,550	0	0
Sub-total			3,825,000	0	1,115,000	1,115,000	101,660	1,630,980	6,630	470,730	0	500,000
<b>Total Cost Attribution</b>			<b>118,031,000</b>	<b>40,812,200</b>	<b>26,538,800</b>	<b>26,538,800</b>	<b>1,994,720</b>	<b>30,673,490</b>	<b>129,995</b>	<b>9,235,795</b>	<b>0</b>	<b>8,646,000</b>

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2026 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
<b>A LINEAR INFRASTRUCTURE</b>											
<b>Regional Road Program</b>											
5 R.R. 37 (Finch Ave.) from Altona Rd. to Brock Rd., Pickering		C	100,000	0	100,000	100,000	0	0	0	0	0
8 R.R. 57 (Bowmanville Ave.) from Baseline Rd. to Nash Rd., Bowmanville	307	C	1,340,000	0	0	0	61,640	988,920	4,020	285,420	0
11 Allowance for sanitary sewers in conjunction with Regional Roads		D,C	600,000	0	600,000	600,000	0	0	0	0	0
Sub-total			2,040,000	0	700,000	700,000	61,640	988,920	4,020	285,420	0
<b>Area Municipality Road Programs</b>											
12A City of Pickering Road Program		D,C	235,000	0	235,000	235,000	0	0	0	0	0
12B Town of Ajax Road Program		D,C	365,000	0	365,000	365,000	0	0	0	0	0
12C Town of Whitby Road Program		D,C	600,000	0	600,000	600,000	0	0	0	0	0
12D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0
12E Municipality of Clarington Road Program		D,C	300,000	0	300,000	300,000	0	0	0	0	0
12F Township of Scugog Road Program		D,C	75,000	0	75,000	75,000	0	0	0	0	0
12G Township of Uxbridge Road Program		D,C	340,000	0	340,000	340,000	0	0	0	0	0
12H Township of Brock Road Program		D,C	120,000	0	120,000	120,000	0	0	0	0	0
12i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0
Sub-total			3,335,000	0	3,335,000	3,335,000	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>											
* 13 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0
<b>Betterments/Replacements</b>											
Sanitary sewerage works to rectify identified system deficiencies independent of road programs in											
14 various locations		D,C	650,000	0	650,000	650,000	0	0	0	0	0
15 Rehabilitation of existing sanitary sewers in various locations		D,C	500,000	0	0	0	0	0	0	0	500,000
24 Replacement of sanitary sewers in various locations		D,C	7,646,000	0	0	0	0	0	0	0	7,646,000
25 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0
Sub-total			8,996,000	0	850,000	850,000	0	0	0	0	8,146,000
<b>System Expansion</b>											
* 26 Duffin Creek - YDSS primary trunk sewer twinning, Pickering	104	C	217,050,000	173,640,000	0	0	1,996,860	32,036,580	130,230	9,246,330	0
* 43 Farewell Creek TSS on easement west of Grandview St., Oshawa	214	EA,D	500,000	0	0	0	23,000	369,000	1,500	106,500	0
* 47 Twinning of Oshawa Creek TSS from Gibb St. to Greenwood Ave., Oshawa	215	D	250,000	0	0	0	11,500	184,500	750	53,250	0
Sub-total			217,800,000	173,640,000	0	0	2,031,360	32,590,080	132,480	9,406,080	0
<b>B BUILDINGS</b>											
* 68 Corbett Creek Water Pollution Control Plant - expansion from 84 MLD to 109 MLD, Whitby	200	C	154,500,000	0	0	0	12,978,000	80,340,000	818,850	60,363,150	0
* 73 Harbour Rd. S Sanitary Sewage Pumping Station and forcemain replacement, Oshawa	205	D	500,000	0	0	0	23,000	369,000	1,500	106,500	0
* 75 Madawaska Sanitary Sewage Pumping Station - replacement, Oshawa		C	4,000,000	0	0	0	184,000	2,952,000	12,000	852,000	0
* 78 Northeast Sanitary Sewage Pumping Station and twinning of forcemain, Bowmanville	300	EA	1,500,000	0	0	0	69,000	1,107,000	4,500	319,500	0
* 80 Newcastle Water Pollution Control Plant - expansion from 7 MLD to 16 MLD and outfall	309	EA	1,050,000	0	997,500	997,500	4,410	27,300	315	20,475	0
* 86 Port Perry Industrial Area Sanitary Sewage Pumping Station and FM, Scugog	402	D	1,000,000	0	261,000	261,000	34,074	545,400	2,130	157,397	0
* 95 Water Pollution Control Plant - Asset Management Remediation and Rehabilitation works		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0
Sub-total			167,550,000	0	6,258,500	6,258,500	13,292,484	85,340,700	839,295	61,819,022	0
<b>C MACHINERY AND EQUIPMENT</b>											
* 104 Duffin Creek WPCP - Asset Management Remediation and rehabilitation works		D,C	6,000,000	4,428,000	1,572,000	1,572,000	0	0	0	0	0
* 110 Courtice Water Pollution Control Plant - Plant upgrades		D,C	4,130,000	0	4,130,000	4,130,000	0	0	0	0	0
Sub-total			10,130,000	4,428,000	5,702,000	5,702,000	0	0	0	0	0

## 2026 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0	0	0	0	0	0	0	0	0
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
117 Inflow/infiltration studies in various locations		D,C	500,000	0	500,000	500,000	0	0	0	0	0	0
119 Asset Condition Assessments - Report		D	300,000	0	0	0	0	0	0	0	0	300,000
120 Asset Condition Assessment/Investigation Trunk Sanitary Sewer Systems		D	200,000	0	0	0	0	0	0	0	0	200,000
121 Master planning energy management		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
122 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	0
123 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0	0
125 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	0
126 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	0
127 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
128 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
129 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460,000	0	0	0	67,160	1,077,480	4,380	310,980	0	0
130 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400,000	0	0	0	18,400	295,200	1,200	85,200	0	0
131 Allowance for intensification		D,C	350,000	0	0	0	16,100	258,300	1,050	74,550	0	0
Sub-total			4,025,000	0	1,315,000	1,315,000	101,660	1,630,980	6,630	470,730	500,000	0
<b>Total Cost Attribution</b>			<b>413,976,000</b>	<b>178,068,000</b>	<b>18,260,500</b>	<b>18,260,500</b>	<b>15,487,144</b>	<b>120,550,680</b>	<b>982,425</b>	<b>71,981,252</b>	<b>8,646,000</b>	

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2027 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost	Grant/ Subsidy/ Other	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges	Residential Development Charges	Institutional Development Charges	Industrial Development Charges	Asset Management Reserve Fund
					Benefit to Existing	Total User Revenue					
A	B	C	D	E	F	G	H	I			
<b>A LINEAR INFRASTRUCTURE</b>											
<b>Regional Road Program</b>											
11 Allowance for Sanitary sewers in conjunction with Regional Roads		D,C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0
Sub-total			2,000,000	0	2,000,000	2,000,000	0	0	0	0	0
<b>Area Municipality Road Programs</b>											
12A City of Pickering Road Program		D,C	235,000	0	235,000	235,000	0	0	0	0	0
12B Town of Ajax Road Program		D,C	365,000	0	365,000	365,000	0	0	0	0	0
12C Town of Whitby Road Program		D,C	600,000	0	600,000	600,000	0	0	0	0	0
12D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0
12E Municipality of Clarington Road Program		D,C	300,000	0	300,000	300,000	0	0	0	0	0
12F Township of Scugog Road Program		D,C	75,000	0	75,000	75,000	0	0	0	0	0
12G Township of Uxbridge Road Program		D,C	340,000	0	340,000	340,000	0	0	0	0	0
12H Township of Brock Road Program		D,C	120,000	0	120,000	120,000	0	0	0	0	0
12i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0
Sub-total			3,335,000	0	3,335,000	3,335,000	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>											
* 13 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0
<b>Betterments/Replacements</b>											
14 Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations		D,C	650,000	0	650,000	650,000	0	0	0	0	0
15 Rehabilitation of existing sanitary sewers in various locations		D,C	500,000	0	0	0	0	0	0	0	500,000
24 Replacement of sanitary sewers in various locations		D,C	7,646,000	0	0	0	0	0	0	0	7,646,000
25 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0
Sub-total			8,996,000	0	850,000	850,000	0	0	0	0	8,146,000
<b>System Expansion</b>											
* 30 Twinning of Duffin Creek TSS from Bayly St. to Hwy 401, Ajax	107	EA	500,000	0	0	0	23,000	369,000	1,500	106,500	0
* 31 Corbett TSS on easement from Wentworth Ave. to Corbett WPCP, Whitby	224	D	500,000	0	0	0	23,000	369,000	1,500	106,500	0
* 36 West central Brooklin TSS west of Way St., Whitby	229	C	1,750,000	0	0	0	80,500	1,291,500	5,250	372,750	0
* 37 Central Brooklin Trunk Sanitary Sewer, Whitby	230	D	500,000	0	0	0	23,000	369,000	1,500	106,500	0
* 39 East Brooklin Trunk Sanitary Sewer east of Thickson Rd., Whitby	232	D	400,000	0	0	0	18,400	295,200	1,200	85,200	0
* 41 Ash Creek TSS Consumers Dr./Green Rd. to the former Pringle Creek WPCP, Whitby	223	D	1,000,000	0	0	0	46,000	738,000	3,000	213,000	0
* 58 Twinning of Spry TSS from Baseline Rd. to N/L Spry, Bowmanville	301	EA	750,000	0	0	0	34,500	553,500	2,250	159,750	0
* 59 Soper Creek TSS from Mearns Ave. to Concession Rd. 3, Bowmanville	304	D	225,000	0	0	0	10,350	166,050	675	47,925	0
Sub-total			5,625,000	0	0	0	258,750	4,151,250	16,875	1,198,125	0
<b>B BUILDINGS</b>											
* 64 Proposed Pickering Sanitary Sewage Pumping Station and forcemain, Pickering	102	C	11,300,000	0	0	0	519,800	8,339,400	33,900	2,406,900	0
* 88 River St. Sanitary Sewage Pumping Station expansion, Sunderland	604	EA	500,000	0	250,000	250,000	20,850	131,500	1,300	96,350	0
* 90 Laidlaw St. Sanitary Sewage Pumping Station expansion, Cannington	605	EA	500,000	0	250,000	250,000	20,850	131,500	1,300	96,350	0
* 91 Lake Simcoe WPCP expansion, Beaverton	602	EA	500,000	0	450,000	450,000	4,150	26,500	250	19,100	0
* 92 Harbour St. Sanitary Sewage Pumping Station expansion, Cannington	606	EA	500,000	0	450,000	450,000	4,150	26,500	250	19,100	0
* 93 Beaverton Employment lands Sanitary Sewage Pumping Station, Brock	603	D	500,000	0	50,000	50,000	37,500	237,000	2,500	173,000	0
* 95 Water Pollution Control Plant - Asset Management Remediation and Rehabilitation works		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0
Sub-total			18,800,000	0	6,450,000	6,450,000	607,300	8,892,400	39,500	2,810,800	0
<b>C MACHINERY AND EQUIPMENT</b>											
99 Duffin Creek WPCP- condition assessment and Asset Plan update, Pickering		D	200,000	153,800	46,200	46,200	0	0	0	0	0
* 104 Duffin Creek WPCP - Asset Management Remediation and rehabilitation works		D,C	6,000,000	4,428,000	1,572,000	1,572,000	0	0	0	0	0
Sub-total			6,200,000	4,581,800	1,618,200	1,618,200	0	0	0	0	0

## 2027 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0	0	0	0	0	0	0	0	0
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
116 Regional Sewerage Master Planning Study		D,C	800,000	0	0	0	36,800	590,400	2,400	170,400	0	0
117 Inflow/infiltration studies in various locations		D,C	500,000	0	500,000	500,000	0	0	0	0	0	0
119 Asset Condition Assessments - Report		D	300,000	0	0	0	0	0	0	0	300,000	0
120 Asset Condition Assessment/Investigation Trunk Sanitary Sewer Systems		D	200,000	0	0	0	0	0	0	0	0	200,000
122 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0	0
123 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0	0
125 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0	0
126 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0	0
127 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
128 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0	0
129 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460,000	0	0	0	67,160	1,077,480	4,380	310,980	0	0
130 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400,000	0	0	0	18,400	295,200	1,200	85,200	0	0
131 Allowance for intensification		D,C	350,000	0	0	0	16,100	258,300	1,050	74,550	0	0
Sub-total			4,625,000	0	1,115,000	1,115,000	138,460	2,221,380	9,030	641,130	500,000	0
<b>Total Cost Attribution</b>			<b>49,681,000</b>	<b>4,581,800</b>	<b>15,468,200</b>	<b>15,468,200</b>	<b>1,004,510</b>	<b>15,265,030</b>	<b>65,405</b>	<b>4,650,055</b>	<b>8,646,000</b>	

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

## 2028 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
<b>A LINEAR INFRASTRUCTURE</b>											
<b>Regional Road Program</b>											
4 R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby		C	1,200,000	0	1,200,000	1,200,000	0	0	0	0	0
11 Allowance for Sanitary sewers in conjunction with Regional Roads		D,C	800,000	0	800,000	800,000	0	0	0	0	0
Sub-total			2,000,000	0	2,000,000	2,000,000	0	0	0	0	0
<b>Area Municipality Road Programs</b>											
12A City of Pickering Road Program		D,C	235,000	0	235,000	235,000	0	0	0	0	0
12B Town of Ajax Road Program		D,C	365,000	0	365,000	365,000	0	0	0	0	0
12C Town of Whitby Road Program		D,C	600,000	0	600,000	600,000	0	0	0	0	0
12D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0
12E Municipality of Clarington Road Program		D,C	300,000	0	300,000	300,000	0	0	0	0	0
12F Township of Scugog Road Program		D,C	75,000	0	75,000	75,000	0	0	0	0	0
12G Township of Uxbridge Road Program		D,C	340,000	0	340,000	340,000	0	0	0	0	0
12H Township of Brock Road Program		D,C	120,000	0	120,000	120,000	0	0	0	0	0
12I Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0
Sub-total			3,335,000	0	3,335,000	3,335,000	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>											
* 13 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0
<b>Betterments/Replacements</b>											
Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations		D,C	650,000	0	650,000	650,000	0	0	0	0	0
14 Rehabilitation of existing sanitary sewers in various locations		D,C	500,000	0	0	0	0	0	0	0	500,000
18 Replacement of sewer on Hillcrest Dr. from Beech St. W/L to E/L, Whitby		D,C	825,000	0	0	0	0	0	0	0	825,000
24 Replacement of sanitary sewers in various locations		D,C	6,821,000	0	0	0	0	0	0	0	6,821,000
25 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0
Sub-total			8,996,000	0	850,000	850,000	0	0	0	0	8,146,000
<b>System Expansion</b>											
* 37 Central Brooklin Trunk Sanitary Sewer, Whitby	230	C	4,000,000	0	0	0	184,000	2,952,000	12,000	852,000	0
* 38 Central East Brooklin Trunk Sanitary Sewer east of Baldwin St., Whitby	231	C	1,000,000	0	0	0	46,000	738,000	3,000	213,000	0
* 39 East Brooklin Trunk Sanitary Sewer east of Thickson Rd., Whitby	232	C	2,600,000	0	0	0	119,600	1,918,800	7,800	553,800	0
* 43 Farewell Creek Trunk Sanitary Sewer on easement west of Grandview St., Oshawa	214	C	2,500,000	0	0	0	115,000	1,845,000	7,500	532,500	0
* 46 North Oshawa Creek (east branch) Trunk Sanitary Sewer, Oshawa	218	C	4,000,000	0	0	0	184,000	2,952,000	12,000	852,000	0
* 47 Twinning of Oshawa Creek Trunk Sanitary Sewer from Gibb to Greenwood, Oshawa	215	C	1,000,000	0	0	0	46,000	738,000	3,000	213,000	0
* 56 Bennett Trunk Sanitary Sewer from Baseline Rd. to Hwy No. 2, Bowmanville	303	C	1,500,000	0	0	0	69,000	1,107,000	4,500	319,500	0
Sub-total			16,600,000	0	0	0	763,600	12,250,800	49,800	3,535,800	0
<b>B BUILDINGS</b>											
* 71 Harmony Creek SSPS - expansion and twinning of forcemain, Oshawa	206	C	39,000,000	0	0	0	1,794,000	28,782,000	117,000	8,307,000	0
* 73 Harbour Rd. S Sanitary Sewage Pumping Station and forcemain replacement, Oshawa	205	C	2,000,000	0	0	0	92,000	1,476,000	6,000	426,000	0
76 Courtrice Water Pollution Control Plant - Plant expansion from 68 MLD to 136 MLD	202	C	140,000,000	0	0	0	11,578,000	73,962,000	700,000	53,760,000	0
* 78 Northeast Sanitary Sewage Pumping Station and forcemain, Bowmanville	300	D	500,000	0	0	0	23,000	369,000	1,500	106,500	0
* 89 Port Perry Industrial Area Sanitary Sewage Pumping Station and FM, Scugog	402	C	10,400,000	0	2,714,400	2,714,400	354,365	5,672,160	22,148	1,636,927	0
* 95 Water Pollution Control Plant - Asset Management Remediation and Rehabilitation works		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0
Sub-total			196,900,000	0	7,714,400	7,714,400	13,841,365	110,261,160	846,648	64,236,427	0
<b>C MACHINERY AND EQUIPMENT</b>											
99 Duffin Creek WPCP- condition assessment and Asset Plan update, Pickering		D	300,000	230,700	69,300	69,300	0	0	0	0	0
* 104 Duffin Creek WPCP - Asset Management Remediation and rehabilitation works		D,C	6,000,000	4,428,000	1,572,000	1,572,000	0	0	0	0	0
Sub-total			6,300,000	4,658,700	1,641,300	1,641,300	0	0	0	0	0



## 2028 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
<b>D IT INFRASTRUCTURE</b>											
Sub-total			0	0	0	0	0	0	0	0	0
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
117 Inflow/infiltration studies in various locations		D,C	500,000	0	500,000	500,000	0	0	0	0	0
119 Asset Condition Assessments - Report		D	300,000	0	0	0	0	0	0	0	300,000
120 Asset Condition Assessment/Investigation Trunk Sanitary Sewer Systems		D	200,000	0	0	0	0	0	0	0	200,000
122 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0
123 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0
125 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0
126 Allowance for sundry extensions as per council policy		D	15,000	0	15,000	15,000	0	0	0	0	0
127 Allowance for unknown requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
128 Allowance for land severance review and drawing requirements		D	100,000	0	100,000	100,000	0	0	0	0	0
129 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460,000	0	0	0	67,160	1,077,480	4,380	310,980	0
130 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400,000	0	0	0	18,400	295,200	1,200	85,200	0
131 Allowance for intensification		D,C	350,000	0	0	0	16,100	258,300	1,050	74,550	0
Sub-total			3,825,000	0	1,115,000	1,115,000	101,660	1,630,980	6,630	470,730	500,000
<b>Total Cost Attribution</b>			<b>238,056,000</b>	<b>4,658,700</b>	<b>16,755,700</b>	<b>16,755,700</b>	<b>14,706,625</b>	<b>124,142,940</b>	<b>903,078</b>	<b>68,242,957</b>	<b>8,646,000</b>

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.

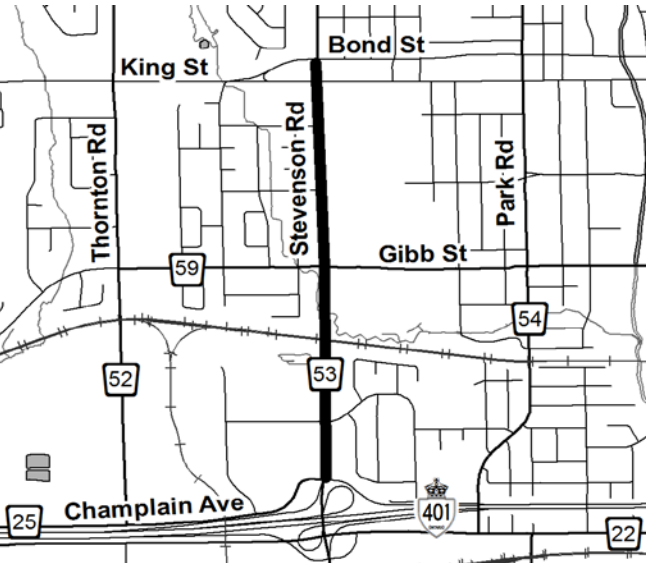
## 2029 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
11 Allowance for Sanitary sewers in conjunction with Regional Roads		D,C	2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
Sub-total			2,000,000	0	2,000,000	2,000,000	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
12A City of Pickering Road Program		D,C	235,000	0	235,000	235,000	0	0	0	0	0	0
12B Town of Ajax Road Program		D,C	365,000	0	365,000	365,000	0	0	0	0	0	0
12C Town of Whitby Road Program		D,C	600,000	0	600,000	600,000	0	0	0	0	0	0
12D City of Oshawa Road Program		D,C	1,100,000	0	1,100,000	1,100,000	0	0	0	0	0	0
12E Municipality of Clarington Road Program		D,C	300,000	0	300,000	300,000	0	0	0	0	0	0
12F Township of Scugog Road Program		D,C	75,000	0	75,000	75,000	0	0	0	0	0	0
12G Township of Uxbridge Road Program		D,C	340,000	0	340,000	340,000	0	0	0	0	0	0
12H Township of Brock Road Program		D,C	120,000	0	120,000	120,000	0	0	0	0	0	0
12i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			3,335,000	0	3,335,000	3,335,000	0	0	0	0	0	0
<b>MTO &amp; GO Transit projects</b>												
* 13 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0	0
Sub-total			100,000	0	100,000	100,000	0	0	0	0	0	0
<b>Betterments/Replacements</b>												
14 Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations		D,C	650,000	0	650,000	650,000	0	0	0	0	0	0
15 Rehabilitation of existing sanitary sewers in various locations		D,C	500,000	0	0	0	0	0	0	0	500,000	0
23 Replacement of sanitary sewer on RR 22 from Cubert St to Oxford St, Oshawa		D,C	370,000	0	0	0	0	0	0	0	0	370,000
24 Replacement of sanitary sewers in various locations		D,C	7,276,000	0	0	0	0	0	0	0	0	7,276,000
25 Allowance for construction of services in unserved areas		C	200,000	0	200,000	200,000	0	0	0	0	0	0
Sub-total			8,996,000	0	850,000	850,000	0	0	0	0	0	8,146,000
<b>System Expansion</b>												
* 30 Twinning of Duffin Creek TSS from Bayly St. to Hwy 401, Ajax	107	D	500,000	0	0	0	23,000	369,000	1,500	106,500	0	0
Sub-total			500,000	0	0	0	23,000	369,000	1,500	106,500	0	0
<b>B BUILDINGS</b>												
* 88 River St. Sanitary Sewage Pumping Station expansion, Sunderland	604	D	500,000	0	250,000	250,000	20,850	131,500	1,300	96,350	0	0
* 90 Laidlaw St. Sanitary Sewage Pumping Station expansion, Cannington	605	D	500,000	0	250,000	250,000	20,850	131,500	1,300	96,350	0	0
* 91 Lake Simcoe Water Pollution Control Plant expansion, Beaverton	602	D	500,000	0	450,000	450,000	4,150	26,500	250	19,100	0	0
* 92 Harbour St. Sanitary Sewage Pumping Station expansion, Cannington	606	D	500,000	0	450,000	450,000	4,150	26,500	250	19,100	0	0
* 95 Water Pollution Control Plant - Asset Management Remediation and Rehabilitation works		D,C	5,000,000	0	5,000,000	5,000,000	0	0	0	0	0	0
Sub-total			7,000,000	0	6,400,000	6,400,000	50,000	316,000	3,100	230,900	0	0
<b>C MACHINERY AND EQUIPMENT</b>												
* 104 Duffin Creek WPCP - Asset Management Remediation and rehabilitation works		D,C	8,000,000	5,904,000	2,096,000	2,096,000	0	0	0	0	0	0
Sub-total			8,000,000	5,904,000	2,096,000	2,096,000	0	0	0	0	0	0
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0	0	0	0	0	0	0	0	0

## 2029 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	Institutional Development Charges G	Industrial Development Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
117 Inflow/infiltration studies in various locations		D,C	500,000	0	500,000	500,000	0	0	0	0	0
119 Asset Condition Assessments - Report		D	300,000	0	0	0	0	0	0	0	300,000
120 Asset Condition Assessment/Investigation Trunk Sanitary Sewer Systems		D	200,000	0	0	0	0	0	0	0	200,000
122 Allowance for acquisition of easements		L	150,000	0	150,000	150,000	0	0	0	0	0
123 Allowance for engineering studies		D	150,000	0	150,000	150,000	0	0	0	0	0
125 Preliminary Engineering		D	100,000	0	100,000	100,000	0	0	0	0	0
126 Allowance for sundry extensions as per council policy		D,C	15,000	0	15,000	15,000	0	0	0	0	0
127 Allowance for unknown requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0
128 Allowance for land severance review and drawing requirements		D,C	100,000	0	100,000	100,000	0	0	0	0	0
129 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460,000	0	0	0	67,160	1,077,480	4,380	310,980	0
130 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400,000	0	0	0	18,400	295,200	1,200	85,200	0
131 Allowance for intensification		D,C	350,000	0	0	0	16,100	258,300	1,050	74,550	0
Sub-total			3,825,000	0	1,115,000	1,115,000	101,660	1,630,980	6,630	470,730	500,000
<b>Total Cost Attribution</b>			<b>33,756,000</b>	<b>5,904,000</b>	<b>15,896,000</b>	<b>15,896,000</b>	<b>174,660</b>	<b>2,315,980</b>	<b>11,230</b>	<b>808,130</b>	<b>8,646,000</b>

\* Indicates Capital project requires prior and/or future funding commitments. Refer to Construction of Municipal Services detail sheet.


PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 7</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 53 (Stevenson Rd.) from Highway 401 to Bond St., Oshawa</p> <p>Project No.: R1819</p>
RELATED PROJECTS
<p>2020 Water Supply Capital Budget Item No.: 14</p>
<p><i>City of Oshawa</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	200,000	0	0	0	0	200,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	720,000	0	0	720,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	200,000	0	720,000	0	0	920,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	200,000	0	720,000	0	0	920,000
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	0	200,000	0	720,000	0	0	920,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 8</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 57 (Bowmanville Ave.) from Baseline Rd. to Nash Rd., Bowmanville</p> <p>Project No.: R1721</p>
<p><b>RELATED PROJECTS</b></p> <p>2020 Water Supply Capital Budget Item No.: 17</p>
<p><i>Municipality of Clarington (Bowmanville)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	400,000	0	475,000	0	0	0	875,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	2,300,000	0	0	0	0	2,300,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	400,000	2,300,000	475,000	0	0	0	3,175,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	1,697,400	350,550	0	0	0	2,047,950
COMMERCIAL DEVELOPMENT CHARGES*	0	105,800	21,850	0	0	0	127,650
USER REVENUES	400,000	496,800	102,600	0	0	0	999,400
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	400,000	2,300,000	475,000	0	0	0	3,175,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Construction to be completed in three phases. Phase three construction beyond forecast</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 10</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 59 (Gibb St.)/ Olive Ave. Extension from Drew St. to Ritson Rd., Oshawa</p> <p>Project No.: R0116</p>
<p><b>RELATED PROJECTS</b></p> <p>2020 Water Supply Capital Budget Item No.: 20</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	150,000	0	0	0	0	150,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	0	0	470,000	470,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	150,000	0	0	0	470,000	620,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	150,000	0	0	0	470,000	620,000
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	0	150,000	0	0	0	470,000	620,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p>ITEM NO. 12A</p> <p><u>Area Municipality Road Programs</u></p> <p>CITY OF PICKERING ROAD PROGRAM (0 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: -</p>		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				
<p>2020 Water Supply Capital Budget Item No. 23A</p>				2021	2022	2023	2024	TOTAL
<p>No Proposed works in 2020</p>	<b>EXPENDITURES:</b>							
	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING	0	0	40,000	40,000	40,000	40,000	160,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	0	195,000	195,000	195,000	195,000	780,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	0	235,000	235,000	235,000	235,000	940,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
	USER REVENUES	0	0	235,000	235,000	235,000	235,000	940,000
	OTHER							0
ASSET MGMT RESERVE FUND							0	
<b>TOTAL ATTRIBUTION</b>	0	0	235,000	235,000	235,000	235,000	940,000	
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>								

NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient sanitary sewers and/or construction of new works in conjunction with road reconstruction proposed by the City of Pickering.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p><b>ITEM NO. 12B</b></p> <p><u>Area Municipality Road Programs</u> TOWN OF AJAX ROAD PROGRAM (2 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: A2099</p>		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
<p>2020 Water Supply Capital Budget Item No. 23B</p>				2021	2022	2023	2024	
	<b>EXPENDITURES:</b>							
	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING	0	60,000	60,000	45,000	300,000	45,000	510,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	340,000	325,000	320,000	2,050,000	320,000	3,355,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	400,000	385,000	365,000	2,350,000	365,000	3,865,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES	0	0	0	0	1,734,300	0	1,734,300
	COMMERCIAL DEVELOPMENT CHARGES*	0	0	0	0	108,100	0	108,100
	USER REVENUES	0	400,000	385,000	365,000	507,600	365,000	2,022,600
	OTHER							0
	ASSET MGMT RESERVE FUND							0
	<b>TOTAL ATTRIBUTION</b>	0	400,000	385,000	365,000	2,350,000	365,000	3,865,000
	Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient sanitary sewers and/or construction of new works in conjunction with road reconstruction proposed by the Town of Ajax</p>



**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																														
<p><b>ITEM NO. 12C</b></p> <p><u>Area Municipality Road Programs</u></p> <p>TOWN OF WHITBY ROAD PROGRAM (0 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: W2099</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																												
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<p>2020 Water Supply Capital Budget Item No. 23C</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>0</td> <td>60,000</td> <td>70,000</td> <td>70,000</td> <td>70,000</td> <td>70,000</td> <td>340,000</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td>0</td> <td>0</td> <td>530,000</td> <td>530,000</td> <td>530,000</td> <td>530,000</td> <td>2,120,000</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td><b>0</b></td> <td><b>60,000</b></td> <td><b>600,000</b></td> <td><b>600,000</b></td> <td><b>600,000</b></td> <td><b>600,000</b></td> <td><b>2,460,000</b></td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING	0	60,000	70,000	70,000	70,000	70,000	340,000	LAND ACQUISITION							0	UTILITY RELOCATION							0	CONSTRUCTION	0	0	530,000	530,000	530,000	530,000	2,120,000	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>60,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>2,460,000</b>
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<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>60,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>2,460,000</b>																																																																								
<p>No Proposed works in 2020</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>USER REVENUES</td> <td>0</td> <td>60,000</td> <td>600,000</td> <td>600,000</td> <td>600,000</td> <td>600,000</td> <td>2,460,000</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ASSET MGMT RESERVE FUND</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td><b>0</b></td> <td><b>60,000</b></td> <td><b>600,000</b></td> <td><b>600,000</b></td> <td><b>600,000</b></td> <td><b>600,000</b></td> <td><b>2,460,000</b></td> </tr> </tbody> </table>							<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES							0	COMMERCIAL DEVELOPMENT CHARGES*							0	USER REVENUES	0	60,000	600,000	600,000	600,000	600,000	2,460,000	OTHER							0	ASSET MGMT RESERVE FUND							0	<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>60,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>600,000</b>	<b>2,460,000</b>								
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NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient sanitary sewer and/or construction of new works in conjunction with road reconstruction proposed by the Town of Whitby.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p><b>ITEM NO. 12D</b>  <b>Area Municipality Road Programs</b>                      CITY OF OSHAWA ROAD PROGRAM                      (0 Projects)                       Refer to Construction of Municipal Services summary for list of streets                      Project No.: -</p>		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
<p>2020 Water Supply Capital Budget Item No. 23D</p>	<b>EXPENDITURES:</b>			2021	2022	2023	2024	
<p>No Proposed works in 2020</p>	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING	0	0	152,000	152,000	152,000	152,000	608,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	0	948,000	948,000	948,000	948,000	3,792,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	0	1,100,000	1,100,000	1,100,000	1,100,000	4,400,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	0	1,100,000	1,100,000	1,100,000	1,100,000	4,400,000	
OTHER							0	
ASSET MGMT RESERVE FUND							0	
<b>TOTAL ATTRIBUTION</b>	0	0	1,100,000	1,100,000	1,100,000	1,100,000	4,400,000	
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>								

NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient sanitary sewer and/or construction of new works in conjunction with road reconstruction proposed by the City of Oshawa.</p>

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p>ITEM NO. 12E</p> <p><u>Area Municipality Road Programs</u></p> <p>MUNICIPALITY OF CLARINGTON ROAD PROGRAM (0 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: -</p>		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
<p>2020 Sanitary Sewerage Capital Budget Item No. 23E</p>	EXPENDITURES:			2021	2022	2023	2024	
	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING	0	0	40,000	40,000	40,000	40,000	160,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	0	260,000	260,000	260,000	260,000	1,040,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	0	300,000	300,000	300,000	300,000	1,200,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
	USER REVENUES	0	0	300,000	300,000	300,000	300,000	1,200,000
	OTHER							0
	ASSET MGMT RESERVE FUND							0
	<b>TOTAL ATTRIBUTION</b>	0	0	300,000	300,000	300,000	300,000	1,200,000
<p>No Proposed works in 2020</p>	<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient sanitary sewer and/or construction of new works in conjunction with road reconstruction proposed by the Municipality of Clarington.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p>ITEM NO. 12F</p> <p><u>Area Municipality Road Programs</u></p> <p>TOWNSHIP OF SCUGOG ROAD PROGRAM (0 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: -</p>		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
<p>2020 Water Supply Capital Budget Item No. 23F</p>	EXPENDITURES:			2021	2022	2023	2024	
	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING	0	0	10,000	10,000	10,000	10,000	40,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	0	65,000	65,000	65,000	65,000	260,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	0	75,000	75,000	75,000	75,000	300,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
	USER REVENUES	0	0	75,000	75,000	75,000	75,000	300,000
	OTHER							0
	ASSET MGMT RESERVE FUND							0
	<b>TOTAL ATTRIBUTION</b>	0	0	75,000	75,000	75,000	75,000	300,000
	Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient sanitary sewer and/or construction of new works in conjunction with road reconstruction proposed by the Township of Scugog.</p>

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p>ITEM NO. 12G</p> <p><u>Area Municipality Road Programs</u></p> <p>TOWNSHIP OF UXBRIDGE ROAD PROGRAM (0 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: -</p>		Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
<p>2020 Water Supply Capital Budget Item No. 23G</p>	EXPENDITURES:			2021	2022	2023	2024	
	ENVIRONMENTAL ASSESSMENT							0
	ENGINEERING	0	0	50,000	50,000	50,000	50,000	200,000
	LAND ACQUISITION							0
	UTILITY RELOCATION							0
	CONSTRUCTION	0	0	290,000	290,000	290,000	290,000	1,160,000
	CONTINGENCY							0
	OTHER							0
	<b>TOTAL EXPENDITURES</b>	0	0	340,000	340,000	340,000	340,000	1,360,000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0
	RESIDENTIAL DEVELOPMENT CHARGES							0
	COMMERCIAL DEVELOPMENT CHARGES*							0
	USER REVENUES	0	0	340,000	340,000	340,000	340,000	1,360,000
	OTHER							0
	ASSET MGMT RESERVE FUND							0
	<b>TOTAL ATTRIBUTION</b>	0	0	340,000	340,000	340,000	340,000	1,360,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>								

NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient sanitary sewer and/or construction of new works in conjunction with road reconstruction proposed by the Township of Uxbridge.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p><b>ITEM NO. 12H</b></p> <p><b>Area Municipality Road Programs</b></p> <p>TOWNSHIP OF BROCK ROAD PROGRAM (0 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: -</p>				<b>Four Year Forecast</b>				
<p>2020 Water Supply Capital Budget Item No. 23H</p>	<b>Budget Prior to 2020</b>	<b>2020 CAPITAL BUDGET</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>TOTAL</b>	
	<b>EXPENDITURES:</b>							
<p>No works proposed in 2020</p>	ENVIRONMENTAL ASSESSMENT						0	
	ENGINEERING	0	20,000	20,000	20,000	20,000	80,000	
	LAND ACQUISITION						0	
	UTILITY RELOCATION						0	
	CONSTRUCTION	0	100,000	100,000	100,000	100,000	400,000	
	CONTINGENCY						0	
	OTHER						0	
	<b>TOTAL EXPENDITURES</b>	0	120,000	120,000	120,000	120,000	480,000	
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS						0	
	RESIDENTIAL DEVELOPMENT CHARGES						0	
	COMMERCIAL DEVELOPMENT CHARGES*						0	
	USER REVENUES	0	120,000	120,000	120,000	120,000	480,000	
	OTHER						0	
	ASSET MGMT RESERVE FUND						0	
	<b>TOTAL ATTRIBUTION</b>	0	120,000	120,000	120,000	120,000	480,000	
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>								

NEED/EXPLANATION OF PROJECT
<p>Replacement of deficient sanitary sewer and/or construction of new works in conjunction with road reconstruction proposed by the Township of Brock.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																														
<p><b>ITEM NO. 12i</b></p> <p><b>Area Municipality Road Programs</b></p> <p>ALLOWANCE FOR UNKNOWN SANITARY SEWER REQUIREMENTS IN CONJUNCTION WITH AREA MUNICIPALITY ROAD PROGRAMS</p> <p>Refer to Construction of Municipal Services summary for list of streets</p> <p>Project No.: M2003</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																												
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<p>2020 Water Supply Capital Budget Item No. 23i</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>0</td> <td>20,000</td> <td>20,000</td> <td>20,000</td> <td>20,000</td> <td>20,000</td> <td>100,000</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td>0</td> <td>180,000</td> <td>180,000</td> <td>180,000</td> <td>180,000</td> <td>180,000</td> <td>900,000</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td><b>0</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>200,000</b></td> <td><b>1,000,000</b></td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING	0	20,000	20,000	20,000	20,000	20,000	100,000	LAND ACQUISITION							0	UTILITY RELOCATION							0	CONSTRUCTION	0	180,000	180,000	180,000	180,000	180,000	900,000	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>1,000,000</b>
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<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>200,000</b>	<b>1,000,000</b>																																																																								

NEED/EXPLANATION OF PROJECT
<p>This allowance is to provide for unanticipated sanitary sewer works in conjunction with area municipality road programs in various locations (Items 12A to 12H)</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 14</b>
<u>BETTERMENTS/ REPLACEMENTS</u>
Sanitary Sewerage works to rectify identified system deficiencies independent of road programs in various locations
Project No.: M2099
<b>RELATED PROJECTS</b>

<b>BUDGET PROVISION AND COST ATTRIBUTION</b>							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	160,000	100,000	100,000	100,000	100,000	560,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	458,700	550,000	550,000	550,000	550,000	2,658,700
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	618,700	650,000	650,000	650,000	650,000	3,218,700
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	618,700	650,000	650,000	650,000	650,000	3,218,700
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	0	618,700	650,000	650,000	650,000	650,000	3,218,700
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

<b>NEED/EXPLANATION OF PROJECT</b>
Provision for replacement and/or rehabilitation of deficient sanitary sewers independent of road programs in various locations.



REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL

SANITARY SEWERAGE SYSTEM

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 15</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Rehabilitation of existing sanitary sewer in various locations of road programs in various locations</p> <p>Project No.: D2012</p>
<b>RELATED PROJECTS</b>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	50,000	50,000	75,000	75,000	75,000	325,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	362,000	410,000	425,000	425,000	425,000	2,047,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	412,000	460,000	500,000	500,000	500,000	2,372,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
OTHER							0
ASSET MGMT RESERVE FUND	0	412,000	460,000	500,000	500,000	500,000	2,372,000
<b>TOTAL ATTRIBUTION</b>	0	412,000	460,000	500,000	500,000	500,000	2,372,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - Rehabilitation (sewer lining) of sanitary sewers in various locations.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 17</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of sanitary sewer on Krosno Blvd. from Modlin to Alyssum St., Pickering</p> <p>Project No.: P2002</p>
RELATED PROJECTS

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	100,000	0	0	0	0	100,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	780,000	0	0	0	780,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	100,000	780,000	0	0	0	880,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
OTHER							0
ASSET MGMT RESERVE FUND	0	100,000	780,000	0	0	0	880,000
<b>TOTAL ATTRIBUTION</b>	0	100,000	780,000	0	0	0	880,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - sanitary sewer has reached the end of its useful service life.</p>

REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL

SANITARY SEWERAGE SYSTEM

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 21</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of a sanitary sewer on Highland Ave. from Gliddon to Athol St., Oshawa</p> <p>Project No.: O1508</p>
<p><b>RELATED PROJECTS</b></p> <p>2016 Sanitary Sewerage Capital Budget Item No. 29 2020 Water Supply Capital Budget Item No. 58</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	80,000	0	0	0	0	0	80,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	420,000	80,000	0	0	0	0	500,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	500,000	80,000	0	0	0	0	580,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
OTHER							0
ASSET MGMT RESERVE FUND	500,000	80,000	0	0	0	0	580,000
<b>TOTAL ATTRIBUTION</b>	500,000	80,000	0	0	0	0	580,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - sanitary sewer has reached the end of its useful service life.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO.: 22</b></p> <p><u>BETTERMENTS/ REPLACEMENTS</u></p> <p>Replacement of sanitary sewer on Olive Ave. from Simcoe St. S. to Drew St., Oshawa</p> <p>Project No.: O1903</p>
<p><b>RELATED PROJECTS</b></p> <p>2018 Water Supply Capital Budget Item No.: 57</p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	240,000	0	0	0	0	0	240,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	1,100,000	0	0	0	0	1,100,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	240,000	1,100,000	0	0	0	0	1,340,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	240,000	1,100,000	0	0	0	0	1,340,000
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	240,000	1,100,000	0	0	0	0	1,340,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Sanitary sewer has reached the end of its useful service life.</p>

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p>ITEM NO.: 27</p> <p><u>SYSTEM EXPANSION</u></p> <p>Twinning of existing 450 mm sanitary sewer on easement from Southwood Sanitary Sewage Pumping Station to approximately 500 m North, Ajax</p> <p>Project No.: D1903</p>
<b>RELATED PROJECTS</b>
<p>2019 Sanitary Sewerage Capital Budget Item No. 42</p>
<p><i>Town of Ajax</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	150,000	0	0	0	0	0	150,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	1,300,000	0	0	0	0	1,300,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	150,000	1,300,000	0	0	0	0	1,450,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	110,700	959,400	0	0	0	0	1,070,100
COMMERCIAL DEVELOPMENT CHARGES*	6,900	59,800	0	0	0	0	66,700
USER REVENUES	32,400	280,800	0	0	0	0	313,200
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	150,000	1,300,000	0	0	0	0	1,450,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Twinning of the trunk sanitary sewer is required to provide increase capacity and system security.</p>

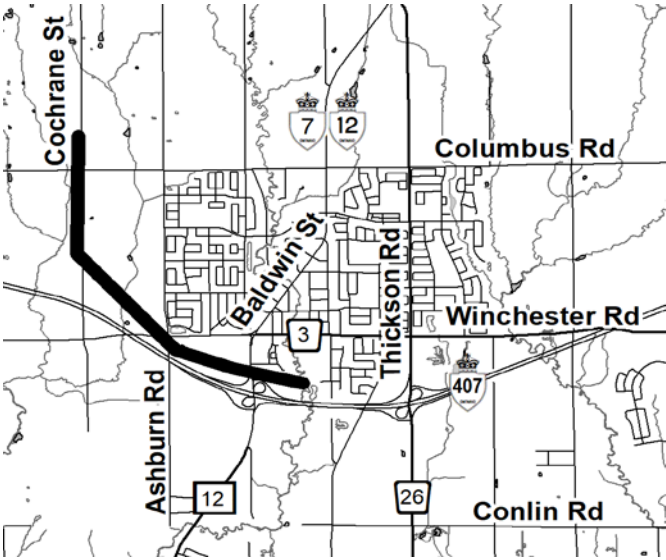
<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 33</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Brooklin Trunk Sanitary Sewer on easement from Anderson St. to Thickson Rd. Sanitary Sewage Pumping Station, Whitby</p> <p>Project No.: D2001</p>
<b>RELATED PROJECTS</b>
<p><i>Town of Whitby</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	0	1,000,000	0	0	0	0	1,000,000
ENGINEERING	0	0	900,000	0	0	0	900,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	0	3,650,000	0	3,650,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>1,000,000</b>	<b>900,000</b>	<b>0</b>	<b>3,650,000</b>	<b>0</b>	<b>5,550,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	738,000	664,200	0	2,693,700	0	4,095,900
COMMERCIAL DEVELOPMENT CHARGES*	0	46,000	41,400	0	167,900	0	255,300
USER REVENUES	0	216,000	194,400	0	788,400	0	1,198,800
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>1,000,000</b>	<b>900,000</b>	<b>0</b>	<b>3,650,000</b>	<b>0</b>	<b>5,550,000</b>
<p><small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small></p>							

<b>NEED/EXPLANATION OF PROJECT</b>
<p>Required to service new development. Timing of construction dependent on the rate of development.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 34</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>West Brooklin Trunk Sanitary Sewer from west of Cochrane St. to east of Highway No. 12, Whitby (Region's Share)</p> <p>Project No.: D2002</p>
<b>RELATED PROJECTS</b>
<p><i>Town of Whitby</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING							0
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	7,350,000	0	0	10,100,000	0	17,450,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	7,350,000	0	0	10,100,000	0	17,450,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	5,424,300	0	0	7,453,800	0	12,878,100
COMMERCIAL DEVELOPMENT CHARGES*	0	338,100	0	0	464,600	0	802,700
USER REVENUES	0	1,587,600	0	0	2,181,600	0	3,769,200
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	0	7,350,000	0	0	10,100,000	0	17,450,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

<b>NEED/EXPLANATION OF PROJECT</b>
<p>Required to service new development. Timing of construction dependent on the rate of development.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 50</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>North Oshawa Creek (West Branch) Trunk Sanitary Sewer from Conlin Rd. Sanitary Sewage Pumping Station to Britannia Rd., Oshawa</p> <p>Project No.: D2003</p>
RELATED PROJECTS
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	0	250,000	0	0	0	0	250,000
ENGINEERING	0	0	0	750,000	0	0	750,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	0	0	4,000,000	4,000,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>750,000</b>	<b>0</b>	<b>4,000,000</b>	<b>5,000,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	184,500	0	553,500	0	2,952,000	3,690,000
COMMERCIAL DEVELOPMENT CHARGES*	0	11,500	0	34,500	0	184,000	230,000
USER REVENUES	0	54,000	0	162,000	0	864,000	1,080,000
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>750,000</b>	<b>0</b>	<b>4,000,000</b>	<b>5,000,000</b>
<p><small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small></p>							

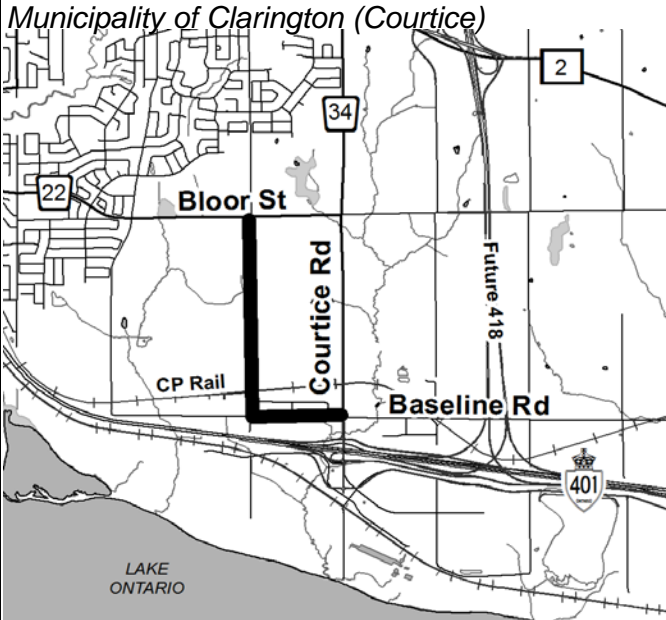
NEED/EXPLANATION OF PROJECT
<p>Required to service new development. Timing of construction dependent on the rate of development.</p>



PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 51</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>North Oshawa Creek (West Branch) Trunk Sanitary Sewer from south side of hydro corridor to Columbus Rd., Oshawa</p> <p>Project No.: D2004</p>
RELATED PROJECTS
<p><i>City of Oshawa</i></p>

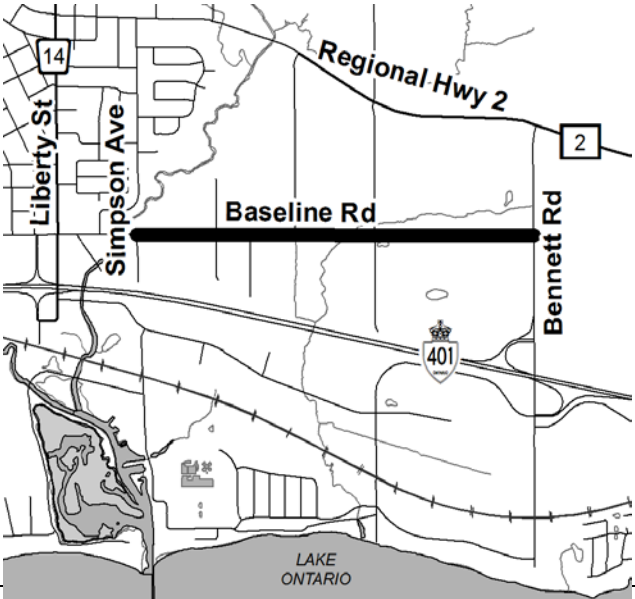
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	0	250,000	3,000,000	0	0	0	3,250,000
ENGINEERING	0	0	0	0	1,750,000	0	1,750,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	250,000	3,000,000	0	1,750,000	0	5,000,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	184,500	2,214,000	0	1,291,500	0	3,690,000
COMMERCIAL DEVELOPMENT CHARGES*	0	11,500	138,000	0	80,500	0	230,000
USER REVENUES	0	54,000	648,000	0	378,000	0	1,080,000
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	0	250,000	3,000,000	0	1,750,000	0	5,000,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Required to service new development. Timing of construction dependent on the rate of development.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 52</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Courtice Trunk Sanitary Sewer - Phase 3                      Baseline Rd. from Courtice Rd. to Trulls Rd. and Trulls Rd. from Baseline Rd. to Bloor St.                      Project No.: C0702</p>
<p><b>RELATED PROJECTS</b></p>
<p>2011 Sanitary Sewerage Capital Budget Item No. 52                      2013 Sanitary Sewerage Capital Budget Item No. 52                      2016 Sanitary Sewerage Capital Budget Item No. 61</p>
<p><i>Municipality of Clarington (Courtice)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	3,639,000	0	0	0	0	0	3,639,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	65,200,000	2,000,000	0	44,800,000	0	15,200,000	127,200,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>68,839,000</b>	<b>2,000,000</b>	<b>0</b>	<b>44,800,000</b>	<b>0</b>	<b>15,200,000</b>	<b>130,839,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	18,300,832	1,476,000	0	33,062,400	0	11,217,600	64,056,832
COMMERCIAL DEVELOPMENT CHARGES*	2,559,195	92,000	0	2,060,800	0	699,200	5,411,195
USER REVENUES	8,590,473	432,000	0	9,676,800	0	3,283,200	21,982,473
DEBENTURES	39,388,500	0	0	0	0	0	39,388,500
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>68,839,000</b>	<b>2,000,000</b>	<b>0</b>	<b>44,800,000</b>	<b>0</b>	<b>15,200,000</b>	<b>130,839,000</b>
<p><small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small></p>							

NEED/EXPLANATION OF PROJECT
<p>Phase 1 :400 m South of Energy Dr. to 100 m North of Energy Dr. and Phase 2 :100 m North of Energy Dr. to the intersection of Baseline Rd. and Courtice Rd. - Completed</p> <p>Phase 3: Baseline Rd. from Courtice Rd. to Trulls Rd. and Trulls Rd. from Baseline Rd. to Bloor St. - Construction proposed in 2020</p> <p>Phase 4: Trulls Rd. from Bloor St. to Future Adelaide Ave.</p> <p>Phase 5: Adelaide Ave. from Trulls Rd. to Townline Rd.</p> <p>Phase 6: Townline Rd. from Beatrice to Coldstream Dr. - Construction to commence in 2020</p>

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 55</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Baseline Rd. Trunk Sanitary Sewer from Simpson Ave. to Bennett Rd., Bowmanville</p> <p>Project No.: D1910</p>
<b>RELATED PROJECTS</b>
<p>2019 Sanitary Sewerage Capital Budget Item No. 70</p> <p><i>Municipality of Clarington (Bowmanville)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	600,000	200,000	0	0	0	0	800,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	2,400,000	0	0	4,000,000	0	0	6,400,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>3,000,000</b>	<b>200,000</b>	<b>0</b>	<b>4,000,000</b>	<b>0</b>	<b>0</b>	<b>7,200,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	2,214,000	147,600	0	2,952,000	0	0	5,313,600
COMMERCIAL DEVELOPMENT CHARGES*	138,000	9,200	0	184,000	0	0	331,200
USER REVENUES	648,000	43,200	0	864,000	0	0	1,555,200
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>3,000,000</b>	<b>200,000</b>	<b>0</b>	<b>4,000,000</b>	<b>0</b>	<b>0</b>	<b>7,200,000</b>
<p><small>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</small></p>							

<b>NEED/EXPLANATION OF PROJECT</b>
<p>Timing of construction dependent on rate of development. Trunk Sanitary Sewer Phasing:</p> <p>Phase 1 Mearns Ave. to Lambs Rd</p> <p>Phase 2: Simpson Ave. to Mearns Ave.</p> <p>Phase 3: Lambs Rd. to Bennett Rd.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 57</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Port Darlington Rd. Trunk Sanitary Sewer from Baseline Rd. to existing easement, Bowmanville</p> <p>Project No.: D2009</p>
RELATED PROJECTS
<p><i>Municipality of Clarington (Bowmanville)</i></p> <p>LIBERTY ST BASELINE RD LAKE RD PORT DARLINGTON RD LAKE ONTARIO</p>

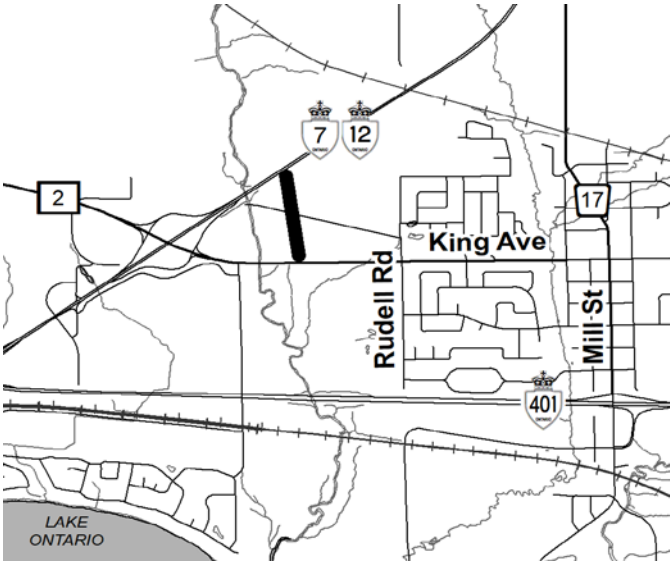
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	1,700,000	0	0	0	0	1,700,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	7,370,000	0	0	7,370,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	1,700,000	0	7,370,000	0	0	9,070,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	1,254,600	0	5,439,060	0	0	6,693,660
COMMERCIAL DEVELOPMENT CHARGES*	0	78,200	0	339,020	0	0	417,220
USER REVENUES	0	367,200	0	1,591,920	0	0	1,959,120
NEW INDUSTRIAL DEV. CHGS.							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	0	1,700,000	0	7,370,000	0	0	9,070,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Required to service new development. Timing of construction dependent on the rate of development.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 61</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Wilmot Creek Trunk Sanitary Sewer on easement (through future development) from Rudell Rd. to King Ave., Newcastle (Region's Share)</p> <p>Project No.: D1822</p>
RELATED PROJECTS
<p>2018 Sanitary Sewerage Capital Budget Item No. 61</p>
<p><i>Municipality of Clarington (Newcastle)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	300,000	0	0	0	0	0	300,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	3,000,000	0	0	0	0	3,000,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>300,000</b>	<b>3,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,300,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	222,900	2,214,000	0	0	0	0	2,436,900
COMMERCIAL DEVELOPMENT CHARGES*	17,400	138,000	0	0	0	0	155,400
USER REVENUES	59,700	648,000	0	0	0	0	707,700
NEW INDUSTRIAL DEV. CHGS.							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>300,000</b>	<b>3,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,300,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Required to service new development. Timing of construction dependent on the rate of development.</p>

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 62</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Wilmot Creek Trunk Sanitary Sewer on easement (through future development) from King Ave. to Hwy 115/35, Newcastle (Region's Share)</p> <p>Project No.: D2007</p>
<b>RELATED PROJECTS</b>
<p><i>Municipality of Clarington (Newcastle)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING							0
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	1,440,000	0	0	0	0	1,440,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>1,440,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,440,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	1,062,720	0	0	0	0	1,062,720
COMMERCIAL DEVELOPMENT CHARGES*	0	66,240	0	0	0	0	66,240
USER REVENUES	0	311,040	0	0	0	0	311,040
NEW INDUSTRIAL DEV. CHGS.							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>1,440,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,440,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

<b>NEED/EXPLANATION OF PROJECT</b>
<p>Required to service new development. Timing of construction dependent on the rate of development.</p>

REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL

SANITARY SEWERAGE SYSTEM

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 68</b></p> <p><u>BUILDINGS</u></p> <p>Expansion of Corbett Creek Water Pollution Control Plant from 84 MLD to 109 MLD, Whitby</p> <p>Project No.: D2011</p>
RELATED PROJECTS
<p><i>Town of Whitby</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	0	1,000,000	0	0	0	0	1,000,000
ENGINEERING	0	0	0	1,500,000	0	0	1,500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION							0
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>1,500,000</b>	<b>0</b>	<b>0</b>	<b>2,500,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	0	26,000	0	39,000	0	0	65,000
COMMERCIAL DEVELOPMENT CHARGES*	0	4,200	0	6,300	0	0	10,500
USER REVENUES	0	969,800	0	1,454,700	0	0	2,424,500
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>1,000,000</b>	<b>0</b>	<b>1,500,000</b>	<b>0</b>	<b>0</b>	<b>2,500,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Expansion to provide capacity for new development.</p>

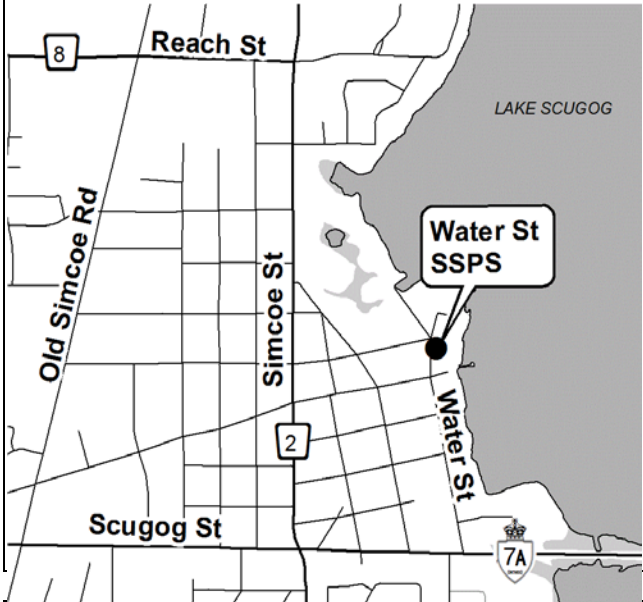
PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 72</b></p> <p><u>BUILDINGS</u></p> <p>Expansion of the Conlin Rd. Sanitary Sewage Pumping Station and twinning of the forcemain, Oshawa</p> <p>Project No.: D1825</p>
<p><b>RELATED PROJECTS</b></p> <p>2018 Sanitary Sewerage Capital Budget Item No. 78</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	500,000	0	0	0	0	0	500,000
ENGINEERING	0	0	1,000,000	0	0	0	1,000,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	3,500,000	0	0	66,000,000	0	69,500,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	500,000	3,500,000	1,000,000	0	66,000,000	0	71,000,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	371,500	2,583,000	738,000	0	48,708,000	0	52,400,500
COMMERCIAL DEVELOPMENT CHARGES*	29,000	161,000	46,000	0	3,036,000	0	3,272,000
USER REVENUES	99,500	756,000	216,000	0	14,256,000	0	15,327,500
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	500,000	3,500,000	1,000,000	0	66,000,000	0	71,000,000

Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.

NEED/EXPLANATION OF PROJECT
<p>Timing of Sanitary Sewage Pumping Station construction dependent on rate of development. The twinning of the forcemain to commence in 2020.</p>

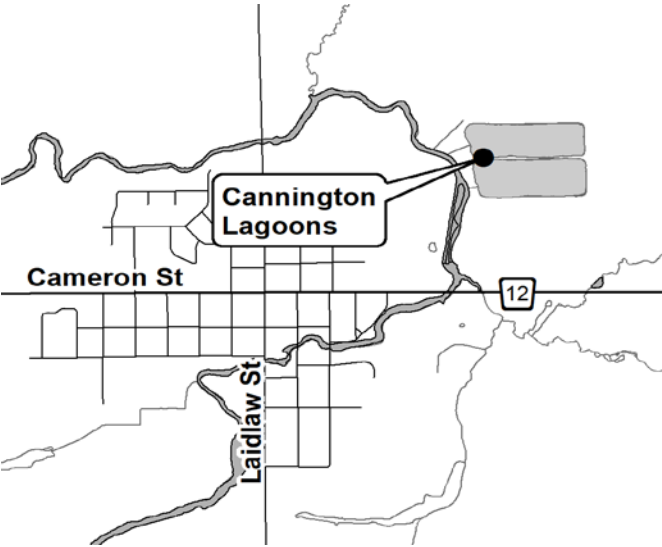


<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 85</b></p> <p><u>BUILDINGS</u></p> <p>Water St. Sanitary Sewage Pumping Station - expansion/replacement</p> <p>Project No.: D1304</p>
<b>RELATED PROJECTS</b>
<p>2013 Sanitary Sewerage Capital Budget No. 73</p> <p>2016 Sanitary Sewerage Capital Budget No. 98</p> <p>2018 Sanitary Sewerage Capital Budget No. 105</p>
<p><i>Township of Scugog (Port Perry)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	750,000	0	0	0	0	0	750,000
ENGINEERING	1,825,622	1,074,000	0	0	0	0	2,899,622
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	1,500,000	17,961,000	0	0	0	19,461,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>2,575,622</b>	<b>2,574,000</b>	<b>17,961,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23,110,622</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	418,485	0	5,423,696	0	0	0	5,842,181
COMMERCIAL DEVELOPMENT CHARGES*	26,009	0	338,487	0	0	0	364,496
USER REVENUES	122,378	0	7,143,817	0	0	0	7,266,195
OTHER							0
ASSET MGMT RESERVE FUND	2,008,750	2,574,000	5,055,000	0	0	0	9,637,750
<b>TOTAL ATTRIBUTION</b>	<b>2,575,622</b>	<b>2,574,000</b>	<b>17,961,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23,110,622</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

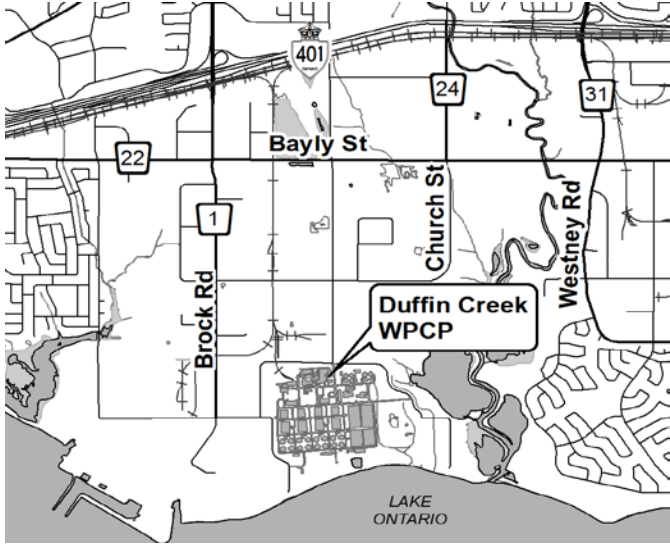
**NEED/EXPLANATION OF PROJECT**

Asset Management Project - project budget to be confirmed and updated upon the completion of the Environmental Assessment.

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 89</b></p> <p><u>BUILDINGS</u></p> <p>Cannington Water Pollution Control Plant - Lagoon System</p> <p>Project No.: D1828</p>
RELATED PROJECTS
<p><i>Township of Brock (Cannington)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT	500,000	0	0	0	0	0	500,000
ENGINEERING	0	1,000,000	500,000	0	0	0	1,500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	9,300,000	0	0	9,300,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	500,000	1,000,000	500,000	9,300,000	0	0	11,300,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	131,750	263,500	131,750	2,450,550	0	0	2,977,550
COMMERCIAL DEVELOPMENT CHARGES*	20,700	41,400	20,700	385,020	0	0	467,820
USER REVENUES	347,550	695,100	347,550	6,464,430	0	0	7,854,630
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	500,000	1,000,000	500,000	9,300,000	0	0	11,300,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Allowance in forecast subject to the completion of the Environmental Assessment</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 96</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Duffin Creek Water Pollution Control Plant - Digester mixing improvements and Motor Control Centre Replacement, Pickering</p> <p>Project No.: Y1502</p>
<p><b>RELATED PROJECTS</b></p> <p>2015 Sanitary Sewerage Capital Budget Item No. 91 2016 Sanitary Sewerage Capital Budget Item No. 103</p>
<p><i>City of Pickering</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	4,000,000	0	0	0	0	0	4,000,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	3,000,000	1,000,000	16,000,000	0	0	0	20,000,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>7,000,000</b>	<b>1,000,000</b>	<b>16,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24,000,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	1,834,000	262,000	4,192,000	0	0	0	6,288,000
OTHER - YORK	5,166,000	738,000	11,808,000	0	0	0	17,712,000
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>7,000,000</b>	<b>1,000,000</b>	<b>16,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24,000,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Cost sharing with York Region</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 97</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Duffin Creek Water Pollution Control Plant - Replacement of Reactor No. 1 &amp; 2, Pickering</p> <p>Project No.: Y1503</p>
<p><b>RELATED PROJECTS</b></p> <p>2015 Sanitary Sewerage Capital Budget Item No. 92                  2017 Sanitary Sewerage Capital Budget Item No. 99                  2019 Sanitary Sewerage Capital Budget Item No. 117</p>
<p><i>City of Pickering</i></p>

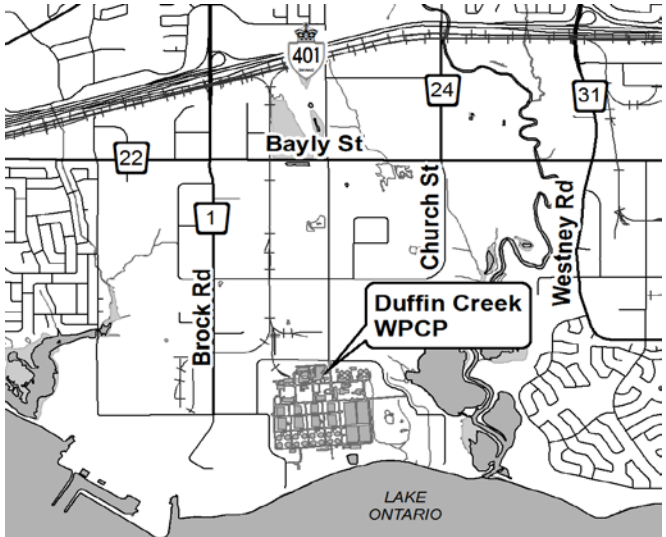
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	21,000,000	0	0	0	0	0	21,000,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	20,000,000	24,900,000	40,100,000	24,900,000	0	109,900,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	21,000,000	20,000,000	24,900,000	40,100,000	24,900,000	0	130,900,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	5,502,000	5,240,000	6,523,800	10,506,200	6,523,800	0	34,295,800
OTHER - YORK	15,498,000	14,760,000	18,376,200	29,593,800	18,376,200	0	96,604,200
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	21,000,000	20,000,000	24,900,000	40,100,000	24,900,000	0	130,900,000
Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.							

NEED/EXPLANATION OF PROJECT
<p>Cost sharing with York Region</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 98</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Regional Environmental Laboratory upgrades and ventilation associated works, Pickering</p> <p>Project No.: Y1602</p>
<p><b>RELATED PROJECTS</b></p> <p>2016 Sanitary Sewerage Capital Budget Item No. 76 2018 Water Supply Capital Budget Item No. 109</p>
<p><i>City of Pickering</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	450,000	0	0	0	0	0	450,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	3,750,000	450,000	0	0	0	0	4,200,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>4,200,000</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,650,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES	1,558,675	166,050	0	0	0	0	1,724,725
COMMERCIAL DEVELOPMENT CHARGES*	117,900	10,350	0	0	0	0	128,250
USER REVENUES	127,375	48,600	0	0	0	0	175,975
NEW INDUSTRIAL DEV. CHGS.	296,050	0					296,050
OTHER - YORK	2,100,000	225,000	0	0	0	0	2,325,000
<b>TOTAL ATTRIBUTION</b>	<b>4,200,000</b>	<b>450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,650,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Cost sharing with York Region.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 101</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Duffin Creek Water Pollution Control Plant - Remedial works and improvements in various locations throughout the plant</p> <p>Project No.: Y2001</p>
<b>RELATED PROJECTS</b>
<p><i>City of Pickering</i></p> 

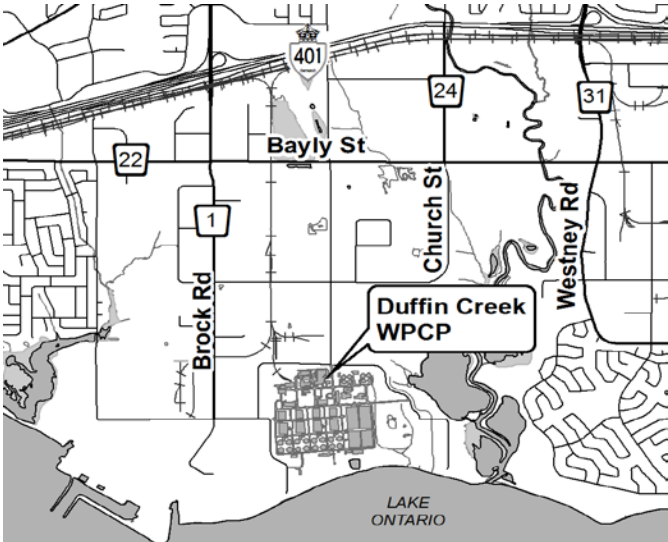
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	500,000	1,000,000	0	0	0	1,500,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	0	13,000,000	0	0	13,000,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	500,000	1,000,000	13,000,000	0	0	14,500,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	100,000	200,000	2,600,000	0	0	2,900,000
OTHER - YORK	0	400,000	800,000	10,400,000	0	0	11,600,000
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	0	500,000	1,000,000	13,000,000	0	0	14,500,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Remedial works for Stage 3 Liquids: residual controls, replacement of effluent water piping network &amp; process air header, replacement of the chemical metering pumps in the disinfection and headworks buildings, chemical line piping modification, chamber improvements to address mixing and scum accumulation outside IPS, primary bridge and scum collector remedial works, provision for enclosure around Stage 3 biofilter panel and pumps and gate refurbishment throughout Stage 3</p> <p style="text-align: right;">Cost sharing with York Region</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 102</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Duffin Creek Water Pollution Control Plant - Reactor 3 and 4 complete refractory and dome replacement</p> <p>Project No.: Y2002</p>
<b>RELATED PROJECTS</b>
<p><i>City of Pickering</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	80,000	0	0	0	0	80,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	520,000	0	0	0	0	520,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	600,000	0	0	0	0	600,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	157,200	0	0	0	0	157,200
OTHER - YORK	0	442,800	0	0	0	0	442,800
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	0	600,000	0	0	0	0	600,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Cost sharing with York Region</p>

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 103</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Duffin Creek Water Pollution Control Plant - Blower Building 1 and 2 Control System Replacement, Pickering</p> <p>Project No.: Y2003</p>
<b>RELATED PROJECTS</b>
<p><i>City of Pickering</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	160,000	0	0	0	0	160,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	0	1,040,000	0	0	0	1,040,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>160,000</b>	<b>1,040,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,200,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	160,000	80,000	0	0	0	240,000
OTHER - YORK	0	0	960,000	0	0	0	960,000
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>160,000</b>	<b>1,040,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,200,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Plan - the control system has reached the end of its useful service life.                      Cost sharing with York Region</p>



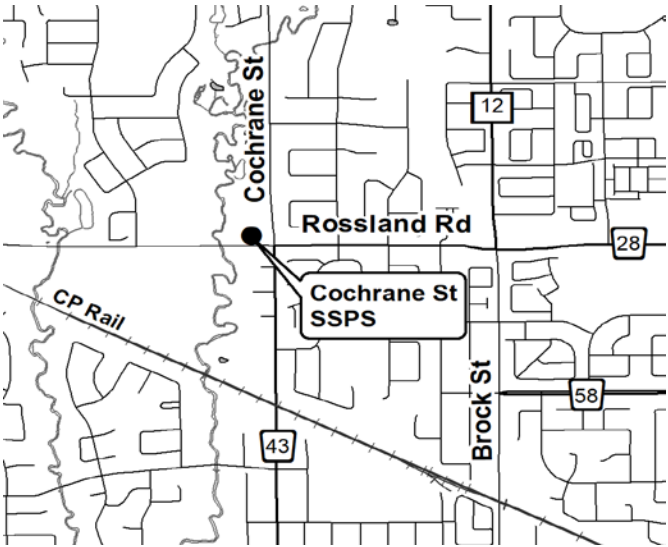
PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 105</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Bayly St. Sanitary Sewage Pumping Station - Mechanical Screen Replacement and Motor Control Centre review &amp; upgrades, Ajax</p> <p>Project No.: D1714</p>
<p align="center"><b>RELATED PROJECTS</b></p> <p>2017 Sanitary Sewerage Capital Budget Item No. 105 2019 Sanitary Sewerage Capital Budget Item No. 121</p>
<p><i>Town of Ajax</i></p>

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	410,000	0	0	0	0	0	410,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	940,000	1,450,000	0	0	0	0	2,390,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>1,350,000</b>	<b>1,450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,800,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	1,350,000	1,450,000	0	0	0	0	2,800,000
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>1,350,000</b>	<b>1,450,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,800,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Project will be completed in two phases.</p> <p>Phase 1: Replacement of the Mechanical Screen</p> <p>Phase 2: Motor Control Centre (MCC) review and upgrades</p>

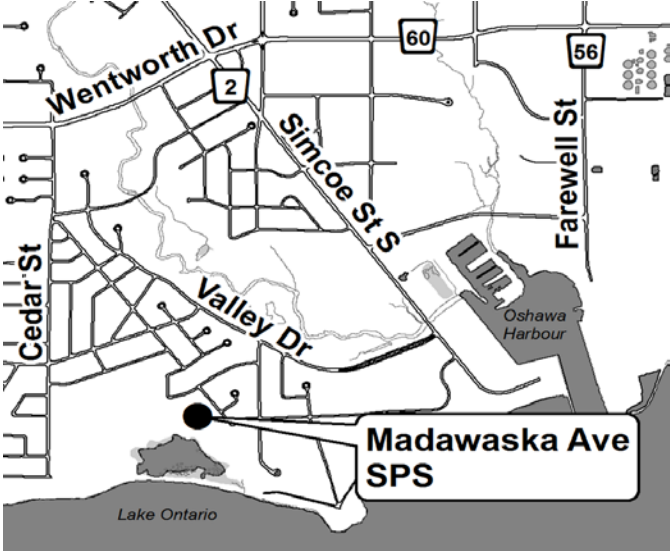
**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 107</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Cochrane Sanitary Sewage Pumping Station odour control upgrades, Whitby</p> <p>Project No.: D2024</p>
RELATED PROJECTS
<p><i>Town of Whitby</i></p> 

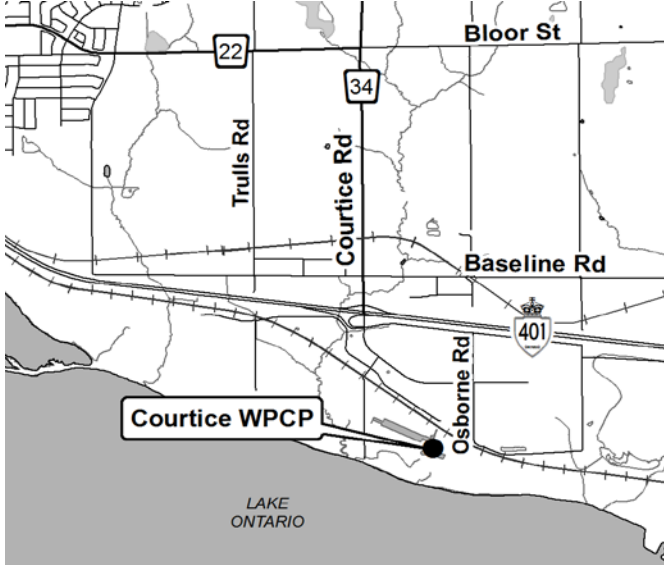
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	0	50,000	0	0	0	0	50,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	300,000	0	0	0	0	300,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	0	350,000	0	0	0	0	350,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	0	350,000	0	0	0	0	350,000
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	0	350,000	0	0	0	0	350,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Current unit is not efficient and requires replacement.</p>

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p>ITEM NO. 108</p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Madawaska Sanitary Sewage Pumping Station - New diesel genset, enclosure and associated works, Oshawa</p> <p>Project No.: D1118</p>
<b>RELATED PROJECTS</b>
<p>City of Oshawa</p>  <p style="text-align: center;"><b>Madawaska Ave SPS</b></p>

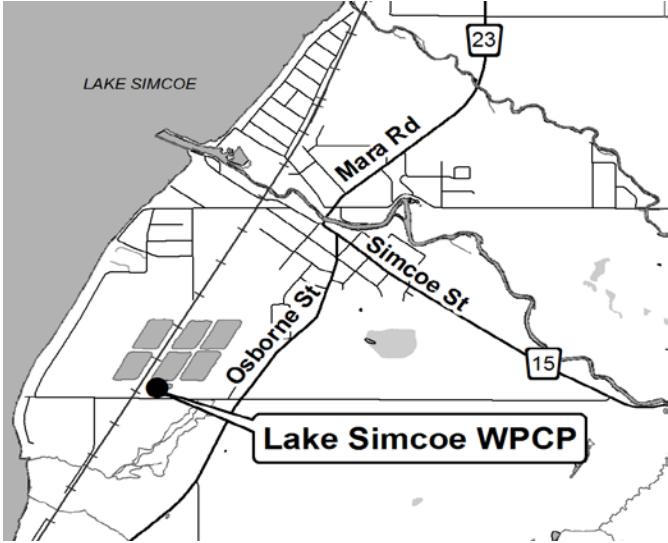
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	200,000	0	0	0	0	0	200,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	0	1,250,000	0	0	0	0	1,250,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	200,000	1,250,000	0	0	0	0	1,450,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	200,000	1,250,000	0	0	0	0	1,450,000
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	200,000	1,250,000	0	0	0	0	1,450,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 109</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Courtice Water Pollution Control Plant - remediation work at digester No. 1 performance improvements for the grit tanks and refurbishment of the mixers.</p> <p>Project No.: D1920</p>
RELATED PROJECTS
<p>2019 Sanitary Sewerage Capital Budget Item No. 124</p>
<p><i>Municipality of Clarington (Courtice)</i></p> 

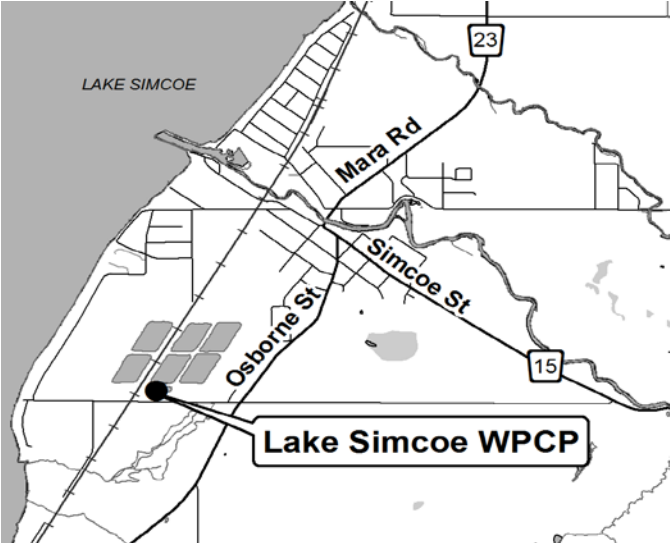
BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	740,000	0	0	0	0	0	740,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	960,000	3,500,000	0	0	0	0	4,460,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	1,700,000	3,500,000	0	0	0	0	5,200,000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
OTHER							0
ASSET MGMT RESERVE FUND	1,700,000	3,500,000	0	0	0	0	5,200,000
<b>TOTAL ATTRIBUTION</b>	1,700,000	3,500,000	0	0	0	0	5,200,000
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Preventative maintenance to optimize the performance of the asset and service life of the plant.</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 112</p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Lake Simcoe Water Pollution Control Plant - Diffused Air System replacement</p> <p>Project No.: D1716</p>
<p><b>RELATED PROJECTS</b></p> <p>2017 Sanitary Sewerage Capital Budget Item No. 113</p> <p>2018 Sanitary Sewerage Capital Budget Item No. 112</p>
<p><i>Township of Brock (Beaverton)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	300,000	0	0	0	0	0	300,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	1,270,000	1,480,000	0	0	0	0	2,750,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>1,570,000</b>	<b>1,480,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,050,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES							0
OTHER							0
ASSET MGMT RESERVE FUND	1,570,000	1,480,000	0	0	0	0	3,050,000
<b>TOTAL ATTRIBUTION</b>	<b>1,570,000</b>	<b>1,480,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,050,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - the asset has reached the end of its useful service life</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 113</p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Lake Simcoe Water Pollution Control Plant - replacement of clarifier mechanisms</p> <p>Project No.: D1835</p>
RELATED PROJECTS
<p>2018 Sanitary Sewerage Capital Budget Item No. 113</p>
<p><i>Township of Brock (Beaverton)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION							
	Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2021	2022	2023	2024	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0
ENGINEERING	80,000	0	0	0	0	0	80,000
LAND ACQUISITION							0
UTILITY RELOCATION							0
CONSTRUCTION	240,000	100,000	0	0	0	0	340,000
CONTINGENCY							0
OTHER							0
<b>TOTAL EXPENDITURES</b>	<b>320,000</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>420,000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0
RESIDENTIAL DEVELOPMENT CHARGES							0
COMMERCIAL DEVELOPMENT CHARGES*							0
USER REVENUES	320,000	100,000	0	0	0	0	420,000
OTHER							0
ASSET MGMT RESERVE FUND							0
<b>TOTAL ATTRIBUTION</b>	<b>320,000</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>420,000</b>
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>							

NEED/EXPLANATION OF PROJECT
<p>The asset has reached the end of its useful service life</p>

REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL

SANITARY SEWERAGE SYSTEM

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p>ITEM NO. 114</p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Fuel Tank Compliance</p> <p>Project No.: D1613</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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<p><b>RELATED PROJECTS</b></p> <p>2016 Sanitary Sewerage Capital Budget Item No. 126</p> <p>2017 Sanitary Sewerage Capital Budget Item No. 115</p> <p>2018 Sanitary Sewerage Capital Budget Item No. 114</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>900,000</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>900,000</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td>3,400,000</td> <td>2,000,000</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>5,400,000</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td><b>4,300,000</b></td> <td><b>2,000,000</b></td> <td><b>0</b></td> <td><b>0</b></td> <td><b>0</b></td> <td><b>0</b></td> <td><b>6,300,000</b></td> </tr> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>USER REVENUES</td> <td>4,300,000</td> <td>2,000,000</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>6,300,000</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ASSET MGMT RESERVE FUND</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td><b>4,300,000</b></td> <td><b>2,000,000</b></td> <td><b>0</b></td> <td><b>0</b></td> <td><b>0</b></td> <td><b>0</b></td> <td><b>6,300,000</b></td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING	900,000	0	0	0	0	0	900,000	LAND ACQUISITION							0	UTILITY RELOCATION							0	CONSTRUCTION	3,400,000	2,000,000	0	0	0	0	5,400,000	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	<b>4,300,000</b>	<b>2,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,300,000</b>	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES							0	COMMERCIAL DEVELOPMENT CHARGES*							0	USER REVENUES	4,300,000	2,000,000	0	0	0	0	6,300,000	OTHER							0	ASSET MGMT RESERVE FUND							0	<b>TOTAL ATTRIBUTION</b>	<b>4,300,000</b>	<b>2,000,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,300,000</b>
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NEED/EXPLANATION OF PROJECT
<p>Upgrades to the diesel generators and tanks to meet regulatory requirements.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p><b>ITEM NO. 117</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Inflow/infiltration monitoring, studies and required remedial works in various locations</p> <p>Project No.: D0606</p>								
<p align="center"><b>RELATED PROJECTS</b></p>								
			Four Year Forecast					
	Budget Prior to 2020	2020 CAPITAL BUDGET	2021	2022	2023	2024	TOTAL	
<b>EXPENDITURES:</b>								
ENVIRONMENTAL ASSESSMENT							0	
ENGINEERING	0	500,000	125,000	70,000	70,000	70,000	835,000	
LAND ACQUISITION							0	
UTILITY RELOCATION							0	
CONSTRUCTION	0	0	875,000	430,000	430,000	430,000	2,165,000	
CONTINGENCY							0	
OTHER							0	
<b>TOTAL EXPENDITURES</b>	0	500,000	1,000,000	500,000	500,000	500,000	3,000,000	
<b>ATTRIBUTION:</b>								
SUBSIDY/GRANTS							0	
RESIDENTIAL DEVELOPMENT CHARGES							0	
COMMERCIAL DEVELOPMENT CHARGES*							0	
USER REVENUES	0	500,000	1,000,000	500,000	500,000	500,000	3,000,000	
OTHER							0	
ASSET MGMT RESERVE FUND							0	
<b>TOTAL ATTRIBUTION</b>	0	500,000	1,000,000	500,000	500,000	500,000	3,000,000	
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>								

**NEED/EXPLANATION OF PROJECT**

Flow monitoring and studies to identify areas of excessive infiltration into sanitary sewers and construction of required remedial works.



**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p><b>ITEM NO. 119</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Asset Condition Assessments - Reports for the Vertical Assets</p> <p>Project No.: D1419</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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<p><b>RELATED PROJECTS</b></p> <p>2014 Sanitary Sewerage Capital Budget Item No. 97</p> <p>2015 Sanitary Sewerage Capital Budget Item No. 105</p> <p>2020 Water Supply Capital Budget Item No. 221</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>1,003,500</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>2,503,500</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td>1,003,500</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>2,503,500</td> </tr> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>USER REVENUES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ASSET MGMT RESERVE FUND</td> <td>1,003,500</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>2,503,500</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td>1,003,500</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>300,000</td> <td>2,503,500</td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING	1,003,500	300,000	300,000	300,000	300,000	300,000	2,503,500	LAND ACQUISITION							0	UTILITY RELOCATION							0	CONSTRUCTION							0	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	1,003,500	300,000	300,000	300,000	300,000	300,000	2,503,500	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES							0	COMMERCIAL DEVELOPMENT CHARGES*							0	USER REVENUES							0	OTHER							0	ASSET MGMT RESERVE FUND	1,003,500	300,000	300,000	300,000	300,000	300,000	2,503,500	<b>TOTAL ATTRIBUTION</b>	1,003,500	300,000	300,000	300,000	300,000	300,000	2,503,500
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NEED/EXPLANATION OF PROJECT
<p>Provincial requirement to assess condition of all assets and develop a rehabilitation strategy.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p><b>ITEM NO. 120</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Asset Condition Assessment/ Investigation on trunk sanitary sewer system</p> <p>Project No.: D1420</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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<p><b>RELATED PROJECTS</b></p> <p>2014 Sanitary Sewerage Capital Budget Item No. 98</p> <p>2015 Sanitary Sewerage Capital Budget Item No. 106</p> <p>2019 Sanitary Sewerage Capital Budget Item No. 133</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>809,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>1,809,000</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td>809,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>1,809,000</td> </tr> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>USER REVENUES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ASSET MGMT RESERVE FUND</td> <td>809,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>1,809,000</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td>809,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>1,809,000</td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING	809,000	200,000	200,000	200,000	200,000	200,000	1,809,000	LAND ACQUISITION							0	UTILITY RELOCATION							0	CONSTRUCTION							0	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	809,000	200,000	200,000	200,000	200,000	200,000	1,809,000	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES							0	COMMERCIAL DEVELOPMENT CHARGES*							0	USER REVENUES							0	OTHER							0	ASSET MGMT RESERVE FUND	809,000	200,000	200,000	200,000	200,000	200,000	1,809,000	<b>TOTAL ATTRIBUTION</b>	809,000	200,000	200,000	200,000	200,000	200,000	1,809,000
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NEED/EXPLANATION OF PROJECT
<p>Allowance for assessment of large trunk sanitary sewers.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p><b>ITEM NO. 122</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Allowance for acquisition of easements</p> <p>Project No.: M2001</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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<p><b>RELATED PROJECTS</b></p> <p>2020 Water Supply Capital Budget Item No. 224</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>LAND ACQUISITION</td> <td>0</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>750,000</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td><b>0</b></td> <td><b>150,000</b></td> <td><b>150,000</b></td> <td><b>150,000</b></td> <td><b>150,000</b></td> <td><b>150,000</b></td> <td><b>750,000</b></td> </tr> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>USER REVENUES</td> <td>0</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>150,000</td> <td>750,000</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ASSET MGMT RESERVE FUND</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td><b>0</b></td> <td><b>150,000</b></td> <td><b>150,000</b></td> <td><b>150,000</b></td> <td><b>150,000</b></td> <td><b>150,000</b></td> <td><b>750,000</b></td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING							0	LAND ACQUISITION	0	150,000	150,000	150,000	150,000	150,000	750,000	UTILITY RELOCATION							0	CONSTRUCTION							0	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>750,000</b>	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES							0	COMMERCIAL DEVELOPMENT CHARGES*							0	USER REVENUES	0	150,000	150,000	150,000	150,000	150,000	750,000	OTHER							0	ASSET MGMT RESERVE FUND							0	<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>750,000</b>
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NEED/EXPLANATION OF PROJECT
<p>A number of sanitary sewer are located on easements to which the Region does not have a clear title. This allowance is for acquisition of easement for existing sanitary sewers in various locations.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p><b>ITEM NO. 123</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Allowance for engineering studies</p> <p>Project No.: M2007</p>								
<p align="center"><b>RELATED PROJECTS</b></p> <p>2020 Water Supply Capital Budget Item No. 225</p>								
			Four Year Forecast					
	Budget Prior to 2020	2020 CAPITAL BUDGET	2021	2022	2023	2024	TOTAL	
<b>EXPENDITURES:</b>								
ENVIRONMENTAL ASSESSMENT							0	
ENGINEERING	0	250,000	150,000	150,000	150,000	150,000	850,000	
LAND ACQUISITION							0	
UTILITY RELOCATION							0	
CONSTRUCTION							0	
CONTINGENCY							0	
OTHER							0	
<b>TOTAL EXPENDITURES</b>	0	250,000	150,000	150,000	150,000	150,000	850,000	
<b>ATTRIBUTION:</b>								
SUBSIDY/GRANTS							0	
RESIDENTIAL DEVELOPMENT CHARGES							0	
COMMERCIAL DEVELOPMENT CHARGES*							0	
USER REVENUES	0	250,000	150,000	150,000	150,000	150,000	850,000	
OTHER							0	
ASSET MGMT RESERVE FUND							0	
<b>TOTAL ATTRIBUTION</b>	0	250,000	150,000	150,000	150,000	150,000	850,000	
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>								

NEED/EXPLANATION OF PROJECT
<p>Allowance for miscellaneous engineering studies.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p><b>ITEM NO. 125</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Preliminary Engineering</p> <p>Project No.: 66143</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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<p><b>RELATED PROJECTS</b></p> <p>2020 Water Supply Capital Budget Item No. 227</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>0</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>500,000</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td><b>0</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>500,000</b></td> </tr> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>USER REVENUES</td> <td>0</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>500,000</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ASSET MGMT RESERVE FUND</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td><b>0</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>500,000</b></td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING	0	100,000	100,000	100,000	100,000	100,000	500,000	LAND ACQUISITION							0	UTILITY RELOCATION							0	CONSTRUCTION							0	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES							0	COMMERCIAL DEVELOPMENT CHARGES*							0	USER REVENUES	0	100,000	100,000	100,000	100,000	100,000	500,000	OTHER							0	ASSET MGMT RESERVE FUND							0	<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>
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ASSET MGMT RESERVE FUND							0																																																																																																																																								
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>																																																																																																																																								
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NEED/EXPLANATION OF PROJECT
<p>Allowance for preliminary engineering carried out in advance of budget provision.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION							
<p><b>ITEM NO. 126</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Allowance for sundry extensions as per Council policy</p> <p>Project No.: M2008</p>								
<p align="center"><b>RELATED PROJECTS</b></p> <p>2020 Water Supply Capital Budget Item No. 228</p>								
		<b>Four Year Forecast</b>						
	<b>Budget Prior to 2020</b>	<b>2020 CAPITAL BUDGET</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>TOTAL</b>	
<b>EXPENDITURES:</b>								
ENVIRONMENTAL ASSESSMENT							0	
ENGINEERING	0	15,000	15,000	15,000	15,000	15,000	75,000	
LAND ACQUISITION							0	
UTILITY RELOCATION							0	
CONSTRUCTION							0	
CONTINGENCY							0	
OTHER							0	
<b>TOTAL EXPENDITURES</b>	0	15,000	15,000	15,000	15,000	15,000	75,000	
<b>ATTRIBUTION:</b>								
SUBSIDY/GRANTS							0	
RESIDENTIAL DEVELOPMENT CHARGES							0	
COMMERCIAL DEVELOPMENT CHARGES*							0	
USER REVENUES	0	15,000	15,000	15,000	15,000	15,000	75,000	
OTHER							0	
ASSET MGMT RESERVE FUND							0	
<b>TOTAL ATTRIBUTION</b>	0	15,000	15,000	15,000	15,000	15,000	75,000	
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>								

NEED/EXPLANATION OF PROJECT	
Regional share for sundry extensions.	

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																																														
<p><b>ITEM NO. 127</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Allowance for unknown requirements</p> <p>Project No.: M2009</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>									Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																																											
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<p><b>RELATED PROJECTS</b></p> <p>2020 Water Supply Capital Budget Item No. 229</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>0</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>500,000</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td><b>0</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>500,000</b></td> </tr> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>USER REVENUES</td> <td>0</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>100,000</td> <td>500,000</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ASSET MGMT RESERVE FUND</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td><b>0</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>100,000</b></td> <td><b>500,000</b></td> </tr> </tbody> </table>								<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT								0	ENGINEERING	0	100,000	100,000	100,000	100,000	100,000	100,000	500,000	LAND ACQUISITION								0	UTILITY RELOCATION								0	CONSTRUCTION								0	CONTINGENCY								0	OTHER								0	<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS								0	RESIDENTIAL DEVELOPMENT CHARGES								0	COMMERCIAL DEVELOPMENT CHARGES*								0	USER REVENUES	0	100,000	100,000	100,000	100,000	100,000	100,000	500,000	OTHER								0	ASSET MGMT RESERVE FUND								0	<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>100,000</b>	<b>500,000</b>
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NEED/EXPLANATION OF PROJECT
<p>Allowance for unanticipated works.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p><b>ITEM NO. 128</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Allowance for land severance review and drawing requirements</p> <p>Project No.: M2062</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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NEED/EXPLANATION OF PROJECT
<p>Allowance for works required to product drawings for the location of stubbed services in the field.</p>



**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p><b>ITEM NO. 129</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Allowance for Regional share for works in conjunction with residential subdivision development.</p> <p>Project No.: M2010</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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<p><b>RELATED PROJECTS</b></p> <p>2020 Water Supply Capital Budget Item No. 231</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>0</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>200,000</td> <td>1,000,000</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td>0</td> <td>1,260,000</td> <td>1,260,000</td> <td>1,260,000</td> <td>1,260,000</td> <td>1,260,000</td> <td>6,300,000</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td><b>0</b></td> <td><b>1,460,000</b></td> <td><b>1,460,000</b></td> <td><b>1,460,000</b></td> <td><b>1,460,000</b></td> <td><b>1,460,000</b></td> <td><b>7,300,000</b></td> </tr> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td>0</td> <td>1,077,480</td> <td>1,077,480</td> <td>1,077,480</td> <td>1,077,480</td> <td>1,077,480</td> <td>5,387,400</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td>0</td> <td>67,160</td> <td>67,160</td> <td>67,160</td> <td>67,160</td> <td>67,160</td> <td>335,800</td> </tr> <tr> <td>USER REVENUES</td> <td>0</td> <td>315,360</td> <td>315,360</td> <td>315,360</td> <td>315,360</td> <td>315,360</td> <td>1,576,800</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ASSET MGMT RESERVE FUND</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td><b>0</b></td> <td><b>1,460,000</b></td> <td><b>1,460,000</b></td> <td><b>1,460,000</b></td> <td><b>1,460,000</b></td> <td><b>1,460,000</b></td> <td><b>7,300,000</b></td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING	0	200,000	200,000	200,000	200,000	200,000	1,000,000	LAND ACQUISITION							0	UTILITY RELOCATION							0	CONSTRUCTION	0	1,260,000	1,260,000	1,260,000	1,260,000	1,260,000	6,300,000	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>7,300,000</b>	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES	0	1,077,480	1,077,480	1,077,480	1,077,480	1,077,480	5,387,400	COMMERCIAL DEVELOPMENT CHARGES*	0	67,160	67,160	67,160	67,160	67,160	335,800	USER REVENUES	0	315,360	315,360	315,360	315,360	315,360	1,576,800	OTHER							0	ASSET MGMT RESERVE FUND							0	<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>1,460,000</b>	<b>7,300,000</b>
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NEED/EXPLANATION OF PROJECT
<p>Regional share for sanitary sewers related to existing, new residential and new non-residential development, in conjunction with new residential subdivisions.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p><b>ITEM NO. 130</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Allowance for Regional share for works in conjunction with non residential development.</p> <p>Project No.: M2011</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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<p><b>RELATED PROJECTS</b></p> <p>2020 Water Supply Capital Budget Item No. 232</p>	<table border="1"> <tbody> <tr> <td colspan="8"><b>EXPENDITURES:</b></td> </tr> <tr> <td>ENVIRONMENTAL ASSESSMENT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ENGINEERING</td> <td>0</td> <td>57,200</td> <td>57,200</td> <td>57,200</td> <td>57,200</td> <td>57,200</td> <td>286,000</td> </tr> <tr> <td>LAND ACQUISITION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>UTILITY RELOCATION</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>CONSTRUCTION</td> <td>0</td> <td>342,800</td> <td>342,800</td> <td>342,800</td> <td>342,800</td> <td>342,800</td> <td>1,714,000</td> </tr> <tr> <td>CONTINGENCY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL EXPENDITURES</b></td> <td><b>0</b></td> <td><b>400,000</b></td> <td><b>400,000</b></td> <td><b>400,000</b></td> <td><b>400,000</b></td> <td><b>400,000</b></td> <td><b>2,000,000</b></td> </tr> <tr> <td colspan="8"><b>ATTRIBUTION:</b></td> </tr> <tr> <td>SUBSIDY/GRANTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>RESIDENTIAL DEVELOPMENT CHARGES</td> <td>0</td> <td>295,200</td> <td>295,200</td> <td>295,200</td> <td>295,200</td> <td>295,200</td> <td>1,476,000</td> </tr> <tr> <td>COMMERCIAL DEVELOPMENT CHARGES*</td> <td>0</td> <td>18,400</td> <td>18,400</td> <td>18,400</td> <td>18,400</td> <td>18,400</td> <td>92,000</td> </tr> <tr> <td>USER REVENUES</td> <td>0</td> <td>86,400</td> <td>86,400</td> <td>86,400</td> <td>86,400</td> <td>86,400</td> <td>432,000</td> </tr> <tr> <td>OTHER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td>ASSET MGMT RESERVE FUND</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> </tr> <tr> <td><b>TOTAL ATTRIBUTION</b></td> <td><b>0</b></td> <td><b>400,000</b></td> <td><b>400,000</b></td> <td><b>400,000</b></td> <td><b>400,000</b></td> <td><b>400,000</b></td> <td><b>2,000,000</b></td> </tr> </tbody> </table>							<b>EXPENDITURES:</b>								ENVIRONMENTAL ASSESSMENT							0	ENGINEERING	0	57,200	57,200	57,200	57,200	57,200	286,000	LAND ACQUISITION							0	UTILITY RELOCATION							0	CONSTRUCTION	0	342,800	342,800	342,800	342,800	342,800	1,714,000	CONTINGENCY							0	OTHER							0	<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>2,000,000</b>	<b>ATTRIBUTION:</b>								SUBSIDY/GRANTS							0	RESIDENTIAL DEVELOPMENT CHARGES	0	295,200	295,200	295,200	295,200	295,200	1,476,000	COMMERCIAL DEVELOPMENT CHARGES*	0	18,400	18,400	18,400	18,400	18,400	92,000	USER REVENUES	0	86,400	86,400	86,400	86,400	86,400	432,000	OTHER							0	ASSET MGMT RESERVE FUND							0	<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>2,000,000</b>
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NEED/EXPLANATION OF PROJECT
<p>Allowance for possible Regional share in design and construction of sanitary sewers for non- residential development.</p>

**REGION OF DURHAM, 2020 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION																																																																																																																																														
<p><b>ITEM NO. 131</b></p> <p><u>ALLOWANCES AND OTHER PROVISIONS</u></p> <p>Allowance for intensification</p> <p>Project No.: M2061</p>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Budget Prior to 2020</th> <th rowspan="2">2020 CAPITAL BUDGET</th> <th colspan="4">Four Year Forecast</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>2021</th> <th>2022</th> <th>2023</th> <th>2024</th> </tr> </thead> </table>								Budget Prior to 2020	2020 CAPITAL BUDGET	Four Year Forecast				TOTAL	2021	2022	2023	2024																																																																																																																												
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OTHER							0																																																																																																																																								
ASSET MGMT RESERVE FUND							0																																																																																																																																								
<b>TOTAL ATTRIBUTION</b>	<b>0</b>	<b>350,000</b>	<b>350,000</b>	<b>350,000</b>	<b>350,000</b>	<b>350,000</b>	<b>1,750,000</b>																																																																																																																																								
<p>Under the Council approved Development Charge By-law #28-2018, the Region approved full Commercial, Industrial and Institutional Development Charges, effective July 1, 2018. Any shortfall in the Commercial, Institutional or Industrial Development Charge Reserve Funding financing will be funded from user revenues.</p>																																																																																																																																															

NEED/EXPLANATION OF PROJECT
<p>Allowance for possible Regional share in the detailed design and construction of sanitary sewers for intensification</p>

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS		
					2021	2022	2023	2024	2025	2026	2027	2028	2029				
<b>CONSTRUCTION OF MUNICIPAL SERVICES</b>																	
<b>ROAD RELATED PROJECTS</b>																	
<b>A</b>	<b>LINEAR INFRASTRUCTURE</b>																
<b>Regional Road Program</b>																	
1	R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville Detailed Design Construction Total	R0503	350,000													Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Regional Road Program	
						1,450,000									350,000 1,450,000 1,800,000		
2	R.R. 16 (Ritson Rd.) from Conlin Rd. to Taunton Rd., Oshawa Detailed Design Construction Total				200,000			1,125,000							200,000 1,125,000 1,325,000		
3	R.R.22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax Detailed Design Construction Total					250,000			1,930,000						250,000 1,930,000 2,180,000		
4	R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby Detailed Design Construction Total						215,000					1,200,000			215,000 1,200,000 1,415,000		Phase 1: overpass Phase 2: from Consumers Dr. to Dundas St.
5	R.R. 37 (Finch Ave.) from Altona Rd. to Brock Rd., Pickering Detailed Design Construction Total						60,000			100,000					60,000 100,000 160,000		
6	R.R.52 (Thornton Rd.) from King St. to Stellar Dr., Oshawa Detailed Design Construction Total						60,000								60,000 140,000 200,000		
7	R.R. 53 (Stevenson Rd.) from Highway 401 to Bond St., Oshawa Detailed Design Construction Total	R1819	200,000			720,000									200,000 720,000 920,000		
8	R.R. 57 (Bowmanville Ave.) from Baseline Rd. to Nash Rd., Bowmanville Detailed Design Construction Total	R1309 R1721	400,000	2,300,000		475,000							1,340,000		875,000 3,640,000 4,515,000		Phase 1 - Intersection improvements Hwy 2 and Stevens Rd. (R1309) Phase 2 - Baseline Rd. to Hwy No. 2 (R1721) Phase 3 - Stevens Rd. to Nash Rd.
9	R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa Detailed Design Construction Total	R0604	80,000			370,000									80,000 370,000 450,000		
10	R.R. 59 (Gibb St.)Olive Ave. Extension from Drew St. to Ritson Rd., Oshawa Detailed Design Construction Total	R0116		150,000			470,000								150,000 470,000 620,000		

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
11	Allowance for sanitary sewers in conjunction with the Regional Road Program				1,000,000		1,000,000		2,000,000	600,000	2,000,000	800,000	2,000,000	9,400,000	
	Sub-total Regional road program		830,000	2,650,000	2,045,000	2,480,000	2,125,000	2,815,000	2,000,000	2,040,000	2,000,000	2,000,000	2,000,000	22,985,000	
12	<b><u>Area Municipality Roads Programs</u></b>  The repair and replacement of deficient sanitary sewers are proposed to be carried out both in conjunction with area  municipality road programs (Item No.'s 12A to 12I), 2 projects and independent of road programs in various locations including sewer re-lining (Item No.14 & 15) 6 projects. Total 8 projects.														
12A	<b><u>City of Pickering Road Program (0 Projects)</u></b>  Works forecast for 2021 to 2029				235,000	235,000	235,000	235,000	235,000	235,000	235,000	235,000	235,000	2,115,000	0 Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the City of Pickering road program.
12B	<b><u>Town of Ajax Road Program (2 Projects)</u></b>  Admiral Rd. from Roosevelt Ave. to Parry Rd. Fuller Rd. from Westney Rd. to Clements Rd.  Works forecast for 2021 to 2029	A2099	400,000		385,000	365,000	2,350,000	365,000	365,000	365,000	365,000	365,000	365,000	5,290,000	400,000 Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Town of Ajax road program.
12C	<b><u>Town of Whitby Road Program (0 Projects)</u></b>  Works forecast for 2021 to 2029	W2099	60,000		600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	5,400,000	60,000 Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Town of Whitby road program.
12D	<b><u>City of Oshawa Road Program (0 Projects)</u></b>  Works forecast for 2021 to 2029				1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	9,900,000	0 Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the City of Oshawa
12E	<b><u>Municipality of Clarington Road Program (0 Projects)</u></b>  Works forecast for 2021 to 2029														0 Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Municipality of Clarington road program.

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
12F	Works forecast for 2021 to 2028 <b>Township of Scugog Road Program (0 Projects)</b>				300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	2,700,000	Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Township of Scugog road program.
	Works forecast for 2021 to 2029				75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	675,000	
12G	Works forecast for 2021 to 2029 <b>Township of Uxbridge Road Program (0 Projects)</b>				340,000	340,000	340,000	340,000	340,000	340,000	340,000	340,000	340,000	3,060,000	0 Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Township of Uxbridge road program.
12H	Works forecast for 2021 to 2029 <b>Township of Brock Road Program (0 Projects)</b>				120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	1,080,000	Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Township of Brock road program.
12i	Allowance for unknown sanitary sewerage requirements in conjunction with area municipality road programs in various locations	M2003		200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,000,000	
	Sub-total works to rectify identified deficiencies and/or construction of required works in conjunction with area municipality road programs (items 12A to 12i)		0	660,000	3,355,000	3,335,000	5,320,000	3,335,000	3,335,000	3,335,000	3,335,000	3,335,000	3,335,000	32,680,000	
13	<b>MTO AND GO Transit Projects</b> Allowance for sanitary sewers in conjunction with the MTO & Go Transit projects				100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	900,000	Allowance for sanitary sewer replacement/realignment
	Sub-total works in conjunction with MTO and GO-Transit projects		0	0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	900,000	
14	<b>Betterment/Replacement</b> Sanitary sewerage works to rectify identified system deficiencies independent of road programs in various locations (6 projects)  Erosion protection for sanitary sewers in various locations  Krosno Creek sanitary sewer creek crossing Harmony Creek at Knights of Columbus Park Trunk Sanitary Sewer	M2099   M2015		618,700										618,700	Provision for replacement and/or rehabilitation of deficient sanitary sewers independent of road programs in various locations.

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028	2029			
	Allowance for final restoration for remedial works constructed in prior years	M2016														
	Remedial works in various locations (Locations and priorities under review)	M2017														
	Preliminary engineering/ surveys for future construction of remedial works	M2018														
	Future remedial works in various locations				650,000	650,000	650,000	650,000	650,000	650,000	650,000	650,000	650,000	5,850,000		
15	Rehabilitation of existing sanitary sewers in various locations	D2012		412,000	460,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	4,872,000	Asset Management Project - Rehabilitation (sewer lining) of sanitary sewers in various locations.	
	<b>PICKERING/ AJAX SYSTEM</b>															
	Durham York Primary Trunk Sanitary Sewer System - Condition Assessment and Rehabilitation requirements (CCTV inspection, minor repair and rehabilitation works to be completed on Chamber 4 to 7)	Y1501													Cost sharing with York Region, Rehabilitation works has been recommended on Chamber 4 to Chamber 7 using slipling methodology	
	Preliminary works/Conceptual and Detailed design		12,037,600											12,037,600		
	Construction				66,000,000									66,000,000		
	Total													78,037,600		
	York Region's Share		10,747,600		59,400,000											
	Durham Region's Share		1,290,000		6,600,000											
	Total		12,037,600		66,000,000											
17	Replacement of sanitary sewer on Krosno Blvd. from Modlin Rd. to Alyssum St., Pickering	P2002													Asset Management Project - sanitary sewer has reached the end of its useful service life.	
	Detailed Design															
	Construction			100,000										100,000		
	Total				780,000									780,000		
	<b>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</b>															
18	Replacement of sanitary sewer on Hillcrest Dr. from Beech St. W/L to Beech St. E/L, Whitby											825,000		825,000	Asset Management Project - sanitary sewer has reached the end of its useful service life.	
19	Replacement of sanitary sewer on Maria St. from Annes St. to Frances St., Whitby						620,000							620,000	Asset Management Project - sanitary sewer has reached the end of its useful service life.	
20	Replacement of a sanitary sewer on Walnut St. from Euclid St. to Kent St., Whitby										185,000			185,000	Asset Management Project - sanitary sewer has reached the end of its useful service life.	
21	Replacement of a sanitary sewer on Highland Ave. from Gliddon Ave. to Athol St., Oshawa	O1508													Asset Management Project - sanitary sewer has reached the end of its useful service life.	
	Detailed Design		80,000											80,000		
	Construction		420,000	80,000										500,000		
	Total													580,000		
22	Replacement of sanitary sewer on Olive Ave. from Simcoe St. S. to Drew St., Oshawa	O1903													Sanitary sewer has reached the end of its useful service life.	
	Detailed Design		240,000											240,000		
	Construction			1,100,000										1,100,000		
	Total													1,340,000		
23	Replacement of sanitary sewer on RR 22 (Bloor St.) from Cubert St. to Oxford St., Oshawa												370,000	370,000	Asset Management Project - sanitary sewer has reached the end of its useful service life.	

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast								TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028			2029
24	Replacement of sanitary sewer in various locations						6,196,000	6,026,000	6,646,000	7,646,000	7,646,000	6,821,000	7,276,000	48,257,000	Asset Management Project - sanitary sewer has reached the end of its useful service life.
	<b>CONSTRUCTION OF SERVICES IN UNSERVICED AREAS IN RESPONSE TO REQUESTS OR PETITIONS</b>														
25	Allowance for construction of services in unserviced areas in response to requests or petitions				200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,800,000	Allowance for construction of sanitary sewer in unserviced areas in response to requests or petitions.
	Sub-total construction of services in unserviced areas				200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,800,000	
	Sub-total Betterments/Replacement		12,777,600	2,310,700	68,090,000	1,535,000	7,546,000	7,996,000	7,996,000	8,996,000	8,996,000	8,996,000	8,996,000	144,235,300	
	<b>System Expansion</b>														
	<b>PICKERING / AJAX SYSTEM</b>														
26	York/Durham Sewage System - Primary Trunk Sanitary Sewer Twinning, Pickering Environmental Assessment Detailed Design Construction Total					16,000,000		20,000,000			217,050,000			16,000,000 20,000,000 217,050,000 253,050,000	Cost sharing with York Region
	York Region's Share Durham Region's Share Total					12,800,000 3,200,000 16,000,000		16,000,000 4,000,000 20,000,000			173,640,000 43,410,000 217,050,000				
27	Twinning of existing 450 mm sanitary sewer on easement from Southwood Sanitary Sewage Pumping Station to approximately 500 m North, Ajax Detailed Design Construction Total	D1903	150,000	1,300,000										150,000 1,300,000 1,450,000	Twinning of the trunk sanitary sewer is required to provide increase capacity and system security.
28	Sanitary sewer on Church St. from Hydro Right of Way to Taunton Rd., Ajax Detailed Design Construction Total					200,000	3,070,000							200,000 3,070,000 3,270,000	Required to service new development.
29	Sanitary sewer diversion on Hunt St. from Westney Rd. to Harwood Ave., Ajax Detailed Design Construction Total				300,000	2,825,000								300,000 2,825,000 3,125,000	
30	Twinning of Duffin Creek Trunk Sanitary Sewer on easement from Bayly St. Sanitary Sewage Pumping Station to Highway 401, Ajax Environmental Assessment Detailed Design Total									500,000		500,000		500,000 500,000 1,000,000	Twinning of the trunk sanitary sewer is required to provide system security and increased capacity. Construction beyond forecast



CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
	<b>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</b>														
31	Corbett Trunk Sanitary Sewer on easement from Wentworth St. to Corbett Creek Water Pollution Control Plant, Whitby Environmental Assessment Detailed Design Total									500,000		500,000		500,000 500,000 1,000,000	Required to service new development. Timing of construction dependent on the rate of development. Construction beyond forecast.
32	West Whitby sub trunk on Dundas St. from Des Newman Blvd. to Halls Rd., Whitby Detailed Design Construction Total					600,000		3,000,000						600,000 3,000,000 3,600,000	Required to service new development. Timing of construction dependent on the rate of development.
33	Brooklin Trunk Sanitary Sewer on easement from Anderson St. to Thickson Rd. Sanitary Sewage Pumping Station, Whitby Environmental Assessment Detailed Design Construction Total	D2001		1,000,000	900,000			3,650,000						1,000,000 900,000 3,650,000 5,550,000	Required to service new development. Timing of construction dependent on the rate of development.
34	West Brooklin Trunk Sanitary Sewer from west of Cochrane St. to east of Highway No. 12, Whitby (Region's share)	D2002		7,350,000			10,100,000							17,450,000	Required to service new development. Timing of construction dependent on the rate of development.
35	Southwest Brooklin Trunk Sanitary Sewer from west of Cochrane St. on New collector road to east of Highway 12, Whitby (Region's share)				15,800,000		11,225,000							27,025,000	Required to service new development. Timing of construction dependent on the rate of development.
36	West Central Brooklin Trunk Sanitary Sewer west of Way St., Whitby (Region's share)									1,750,000				1,750,000	Required to service new development. Timing of construction dependent on the rate of development.
37	Central Brooklin Trunk Sanitary Sewer, Whitby Detailed Design Construction Total									500,000		4,000,000		500,000 4,000,000 4,500,000	Required to service new development. Timing of construction dependent on the rate of development.
38	Central East Brooklin Trunk Sanitary Sewer east of Baldwin St., Whitby (Region's share)											1,000,000		1,000,000	Required to service new development. Timing of construction dependent on the rate of development.
39	East Brooklin Trunk Sanitary Sewer east of Thickson Rd., Whitby (Region's share) Detailed Design Construction Total									400,000		2,600,000		400,000 2,600,000 3,000,000	Required to service new development. Timing of construction dependent on the rate of development.
40	Thickson Rd. Sub-trunk Sanitary Sewer from Glengowan St. to Conlin Rd., Whitby (Region's share)				3,200,000									3,200,000	Required to service new development. Timing of construction dependent on the rate of development.
41	Ash Creek Trunk Sanitary Sewer from Consumers Dr./Green Rd. to Ash Creek Trunk Sanitary Sewage at the former Pringle Creek Water Pollution Control Plant, Whitby Environmental Assessment Detailed Design Total									1,000,000		1,000,000		1,000,000 1,000,000 2,000,000	Required to service new development. Timing of construction dependent on the rate of development. Construction beyond forecast.

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
42	Conlin Rd. W. Trunk Sanitary Sewer on Conlin Rd. from Whitby/ Oshawa Boundary to Conlin Rd. Sanitary Sewage Pumping Station, Whitby/Oshawa Detailed Design Construction Total				800,000		6,000,000							800,000 6,000,000 6,800,000	Required to service new development. Timing of construction dependent on the rate of development.
43	Farewell Creek Trunk Sanitary Sewer twinning on easement west of Grandview St., Oshawa Environmental Assessment and Detailed Design Construction Total									500,000		2,500,000		500,000 2,500,000 3,000,000	Required to service new development. Timing of construction dependent on the rate of development.
44	Twinning of northwest branch of Harmony Creek Sub-Trunk Sanitary Sewer from Central Park Blvd N. & Hillcroft St. to Beatrice St., Oshawa Preliminary work/Study/Detailed Design Construction Total	O9835	350,000		2,150,000									350,000 2,150,000 2,500,000	Replacement of existing surcharged trunk sanitary sewer detailed design and land acquisition completed. Construction forecast in 2021, depending on flow monitoring results.
45	North Oshawa Creek (East branch) Trunk Sanitary Sewer on easement from Arctic Red Dr. to Winchester Rd., Oshawa (Region's only)							4,500,000						4,500,000	Required to service new development. Timing of construction dependent on the rate of development.
46	North Oshawa Creek (East branch) Trunk Sanitary Sewer on easement from southeast of Thornton Rd. to Simcoe St., Oshawa (Region's share)											4,000,000		4,000,000	Required to service new development. Timing of construction dependent on the rate of development.
47	Twinning of Oshawa Creek Trunk Sanitary Sewer from Gibb St. to Greenwood Ave., Oshawa Detailed Design Construction Total									250,000		1,000,000		250,000 1,000,000 1,250,000	Twinning of the trunk sanitary sewer is required to provide system security and provide increased capacity.
48	Forcemain on Conlin Rd. from Ritson Rd. to Harmony Rd., Oshawa Detailed Design Construction Total				800,000		7,450,000							800,000 7,450,000 8,250,000	Required to service new development. Timing of construction dependent on the rate of development.
49	Harmony Rd. Sub Trunk Sanitary Sewer on Harmony Rd. from Conlin Rd. to approximately 1500 m Northerly, Oshawa Detailed Design Construction Total				420,000	3,950,000								420,000 3,950,000 4,370,000	Required to service new development. Timing of construction dependent on the rate of development.
50	North Oshawa Creek (West Branch) Trunk Sanitary Sewer from Conlin Rd. Sanitary Sewage Pumping Station to Britannia Ave., Oshawa Environmental Assessment Detailed Design Construction Total	D2003		250,000		750,000	4,000,000							250,000 750,000 4,000,000 5,000,000	Required to service new development. Timing of construction dependent on the rate of development.



CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast								TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028			2029
59	Soper Creek Trunk Sanitary Sewer on Mearns Ave. from Freeland Ave. to Concession Rd. 3 and on Concession Rd. 3 from Mearns Ave. to 450 m west of Mearns Ave., Bowmanville											225,000		225,000	Required to service new development. Timing of construction dependent on the rate of development. rate of development.
<b>CLARINGTON (NEWCASTLE) SYSTEM</b>															
60	Foster Creek Trunk Sanitary Sewer on North St. from north side of Canadian Pacific Railway to Concession Rd. 3, Newcastle (Region's share)					2,600,000								2,600,000	Required to service new development. Timing of construction dependent on the rate of development.
61	Wilmot Creek Trunk Sanitary Sewer on easement (through future development) from Rudell Rd. to King Ave., Newcastle (Region's share)	D1822	300,000	3,000,000										3,300,000	Required to service new development and system security. Timing of construction dependent on the rate of development.
62	Wilmot Creek Trunk Sanitary Sewer on easement (through future development) from King Ave. to Hwy 115/35, Newcastle (Region's share)	D2007		1,440,000										1,440,000	Required to service new development and system security. Timing of construction dependent on the rate of development.
Sub-total System Expansion			72,939,000	18,490,000	31,220,000	83,095,000	51,045,000	39,200,000	35,675,000	217,800,000	5,625,000	16,600,000	500,000	572,189,000	
<b>B BUILDINGS</b>															
<b>PICKERING / AJAX SYSTEM</b>															
63	Class Environmental Assessment to address the outfall limitations at Duffin Creek Water Pollution Control Plant, Pickering Environmental Assessment Phosphorus Optimization & Field Study Detailed Design Total	Y0802	5,992,000 2,263,000						8,000,000					16,255,000	Cost sharing with York Region. Construction beyond forecast.
	York Region's Share Durham Region's Share Total		4,750,000 3,505,000 8,255,000						6,400,000 1,600,000 8,000,000						
64	Proposed Pickering Sanitary Sewage Pumping Station and forcemain, Pickering Environmental Assessment Detailed Design Construction Total					3,000,000			1,000,000			11,300,000		15,300,000	Timing of construction dependent on the rate of development.
65	Carruthers Sanitary Sewage Pumping Station pump addition and Standby power, Ajax Detailed Design Construction Total	D1116	260,000			1,760,000								2,020,000	Timing of construction dependent on the rate of development.
<b>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</b>															
66	Corbett Creek Water Pollution Control Plant - works to rectify existing deficiencies Detailed Design Construction Total	D1913	1,120,000 880,000			6,000,000								8,000,000	Required to rectify existing deficiencies at the plant.

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
67	Corbett Creek Water Pollution Control Plant - New headworks building Facility Plan/Conceptual Design Detailed Design Construction Total	D1409	200,000 1,100,000			5,100,000								200,000 1,100,000 5,100,000 6,400,000	Work will commence once the deficiencies project has been completed.
68	Expansion of Corbett Creek Water Pollution Control Plant from 84 MLD to 109 MLD Environmental Assessment Detailed Design Construction Total	D2011		1,000,000		1,500,000				154,500,000				1,000,000 1,500,000 154,500,000 157,000,000	Expansion to provide capacity for new development.
69	Brooklin Sanitary Diversion Strategy - Proposed Thickson Rd. Sanitary Sewage Pumping Station and forcemain, Whitby Environmental Assessment Detailed Design Construction Total	D1824	1,000,000		3,500,000		24,800,000							1,000,000 3,500,000 24,800,000 29,300,000	Timing of construction dependent on the rate of development.
70	Harmony Creek Water Pollution Control Plant No. 1 demolition, Oshawa Detailed Design Construction Total	D1010	620,000 380,000		2,200,000									620,000 2,580,000 3,200,000	The demolition of Plant No. 1 will commence once all upgrades at Plant No. 2 are completed.
71	Harmony Creek Sanitary Sewage Pumping Station - expansion and forcemain twinning Environmental Assessment Detailed Design Construction Total						600,000	1,500,000				39,000,000		600,000 1,500,000 39,000,000 41,100,000	Timing of construction dependent on rate of development.
72	Expansion of the Conlin Rd. Sanitary Sewage Pumping Station and twinning of the forcemain, Oshawa Environmental Assessment Detailed Design Construction Total	D1825	500,000	3,500,000	1,000,000		66,000,000							500,000 1,000,000 69,500,000 71,000,000	Timing of Sanitary Sewage Pumping Station construction dependent on rate of development. The twinning of the forcemain to commence in 2020.
73	Proposed Harbour Rd. South Sanitary Sewage Pumping Station and forcemain, Oshawa Environmental Assessment Detailed Design Construction Total						1,500,000		500,000			2,000,000		1,500,000 500,000 2,000,000 4,000,000	Timing of construction dependent on rate of development.
74	Simcoe St. South Sanitary Sewage Pumping Station and forcemain replacement, Oshawa Detailed design Construction Total	D1711	288,000		4,600,000									288,000 4,600,000 4,888,000	Replacement of the existing sanitary sewage pumping station.
75	Madawaska Sanitary Sewage Pumping Station - pumping station replacement Oshawa Environmental Assessment Detailed Design Construction Total					500,000	500,000		4,000,000					500,000 500,000 4,000,000 5,000,000	The pumping station is reached the end of it's useful life.

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
76	Expansion of Courtice Water Pollution Control Plant from 68 MLD to 136 MLD Environmental Assessment Detailed Design Construction Total						1,000,000		1,500,000				140,000,000	1,000,000 1,500,000 140,000,000 142,500,000	Expansion to provide capacity for new development.
77	Proposed Baseline Rd. Sanitary Sewage Pumping Station and forcemain, Courtice Environmental Assessment Detailed Design Construction Total				500,000	400,000	3,400,000							500,000 400,000 3,400,000 4,300,000	Timing of construction dependent on rate of development
<b>CLARINGTON (BOWMANVILLE) SYSTEM</b>															
78	Proposed Northeast Sanitary Sewage Pumping Station and forcemain, Bowmanville Environmental Assessment Detailed Design Total									1,500,000		500,000		1,500,000 500,000 2,000,000	Construction beyond forecast
<b>CLARINGTON (NEWCASTLE) SYSTEM</b>															
79	Newcastle Water Pollution Control Plant - Capacity Re-rating 4 MLD to 7 MLD to include sludge storage Optimization Study Detailed Design Construction Total	D1117	200,000 1,220,000 3,494,000		5,200,000	3,000,000								200,000 1,220,000 11,694,000 13,114,000	Potential for additional capacity through an optimization study and modification to the plant. Possible plant expansion deferred beyond forecast. Allowance for potential upgrades subject to optimization study.
80	Expansion of Newcastle Water Pollution Control Plant from 7 MLD to 16 MLD and outfall Environmental Assessment									1,050,000				1,050,000	Detailed design and construction beyond forecast.
81	Rudell Rd. Sanitary Sewage Pumping Station - decommissioning Detailed Design Construction Total	D1914	60,000		550,000									60,000 550,000 610,000	
82	Sunset Sanitary Sewage Pumping Station - decommissioning Detailed Design Construction Total						60,000 560,000							60,000 560,000 620,000	
<b>UXBRIDGE (UXBRIDGE) SYSTEM</b>															
83	Uxbridge Water Pollution Control Plant - Optimization Study, upgrades and rehabilitation works based on the condition assessment. Preliminary Works/ Detailed Design Construction Total	D1204	1,100,000 2,000,000		2,500,000									1,100,000 4,500,000 5,600,000	Plant upgrades and rehabilitation based on optimization study and plant condition assessment.
84	Uxbridge Water Pollution Control Plant - rehabilitation works based on the condition assessment Condition Assessment update/Detailed design Construction Total					450,000		1,000,000						450,000 1,000,000 1,450,000	Asset Management Project Preventative maintenance to optimize the performance of the asset and service life of the plant.

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
<b>SCUGOG (PORT PERRY) SYSTEM</b>															
85	Water St. Sanitary Sewage Pumping Station - expansion/replacement Evaluation / Environmental Assessment / Detailed Design Construction Total	D1304	2,575,622	1,074,000 1,500,000	17,961,000									3,649,622 19,461,000 23,110,622	Asset Management Project - project budget to be confirmed and updated upon the completion of the Environmental Assessment.
86	Port Perry Industrial Area Sanitary Sewage Pumping Station and forcemain, Port Perry Environmental Assessment Preliminary Works/Detailed Design Construction Total						1,500,000			1,000,000			10,400,000	1,000,000 10,400,000 11,400,000	
<b>BROCK (SUNDERLAND) SYSTEM</b>															
87	Sunderland Water Pollution Control Plant - Lagoon System Environmental Assessment Detailed Design Construction Total	D1826	500,000		500,000								9,300,000	500,000 500,000 9,300,000 10,300,000	Allowance in forecast subject to the completion of the Environmental Assessment
88	River St. Sanitary Sewage Pumping Station expansion Environmental Assessment Detailed Design									500,000			500,000	500,000 500,000	Construction beyond forecast.
<b>BROCK (CANNINGTON) SYSTEM</b>															
89	Cannington Water Pollution Control Plant - Lagoon System Environmental Assessment Detailed Design Construction Total	D1828	500,000	1,000,000	500,000								9,300,000	500,000 1,500,000 9,300,000 11,300,000	Allowance in forecast subject to the completion of the Environmental Assessment
90	Laidlaw St. Sanitary Sewage Pumping Station expansion Environmental Assessment Detailed Design									500,000			500,000	500,000 500,000	Construction beyond forecast
<b>BROCK (BEAVERTON) SYSTEM</b>															
91	Lake Simcoe Water Pollution Control Plant - expansion Environmental Assessment Detailed Design									500,000			500,000	500,000 500,000	Construction beyond forecast
92	Harbour St. Sanitary Sewage Pumping Station expansion Environmental Assessment Detailed Design									500,000			500,000	500,000 500,000	Construction beyond forecast
93	Beaverton Employment lands Sanitary Sewage Pumping Station Environmental Assessment Detailed Design Total							1,000,000		500,000				1,000,000 500,000 1,500,000	Construction beyond forecast
<b>REGION WIDE (WASTEWATER) SYSTEM</b>															
94	Septage receiving stations Detailed Design Construction Total				250,000		1,550,000							250,000 1,550,000 1,800,000	Required to accommodate increasing volumes of septage delivered by truck to the Region's Water Pollution Control Plants.

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast								TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028			2029
95	Water Pollution Control Plant - Asset Management Remediation and Rehabilitation works							5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	30,000,000	Allowance for the future remediation and rehabilitation of assets at the water pollution control plants.
	Sub-total Buildings		26,252,622	8,074,000	47,021,000	30,650,000	96,250,000	12,120,000	19,000,000	167,550,000	18,800,000	196,900,000	7,000,000	629,617,622	
<b>C</b>	<b>MACHINERY AND EQUIPMENT</b>														
	<u>PICKERING / AJAX SYSTEM</u>														
96	Duffin Creek Water Pollution Control Plant - Digester mixing improvements and Motor Control Centre Replacement, Pickering	Y1502													Cost sharing with York Region
	Conceptual Design		1,000,000											1,000,000	
	Detailed Design		3,000,000											3,000,000	
	Construction		3,000,000	1,000,000	16,000,000									20,000,000	
	Total													24,000,000	
	York Region's Share		5,166,000	738,000	11,808,000										
	Durham Region's Share		1,834,000	262,000	4,192,000										
	Total		7,000,000	1,000,000	16,000,000										
97	Duffin Creek Water Pollution Control Plant - Replacement of Reactor No. 1 & 2, Pickering	Y1503													Reactors 1 and 2 have reached the end of their useful service life. Cost sharing with York Region
	Conceptual Design		1,850,000											1,850,000	
	Detailed Design		19,150,000											19,150,000	
	Construction			20,000,000	24,900,000	40,100,000	24,900,000		40,100,000					150,000,000	
	Total													171,000,000	
	York Region's Share		15,498,000	14,760,000	18,376,200	29,593,800	18,376,200		29,593,800						
	Durham Region's Share		5,502,000	5,240,000	6,523,800	10,506,200	6,523,800		10,506,200						
	Total		21,000,000	20,000,000	24,900,000	40,100,000	24,900,000		40,100,000						
98	Regional Environmental Laboratory upgrades and ventilation associated works, Pickering	Y1602													Cost sharing with York Region.
	Preliminary /Detailed Design		450,000											450,000	
	Construction		3,750,000	450,000										4,200,000	
	Total													4,650,000	
	York Region's Share		2,100,000	225,000											
	Durham Region's Share		2,100,000	225,000											
	Total		4,200,000	450,000											
99	Duffin Creek Water Pollution Control Plant - Condition Assessment and Asset Plan updating														Cost sharing with York Region
	York Region's Share					200,000	300,000				200,000	300,000		1,000,000	
	Durham Region's Share														
	Total					200,000	300,000				200,000	300,000			
	York Region's Share					153,800	230,700				153,800	230,700			
	Durham Region's Share					46,200	69,300				46,200	69,300			
	Total					200,000	300,000				200,000	300,000			
100	Duffin Creek Water Pollution Control Plant - Phosphorous Optimization Implementation Plan	Y1902	1,550,000		3,450,000									5,000,000	Cost sharing with York Region
	York Region's Share		1,240,000		2,760,000										
	Durham Region's Share		310,000		690,000										
	Total		1,550,000		3,450,000										



CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
101	Duffin Creek Water Pollution Control Plant - Remedial works and improvements in various locations throughout the plant	Y2001													Remedial works for Stage 3 Liquids:  residual controls, replacement of effluent water piping network & process air header, replacement of the chemical metering pumps in the disinfection and headworks buildings, chemical line piping modification, chamber improvements to address mixing and scum accumulation outside IPS, primary bridge and scum collector remedial works, provision for enclosure around Stage 3 biofilter panel and pumps and gate refurbishment throughout Stage 3 Cost sharing with York Region
	Preliminary works and Detailed Design			500,000	1,000,000								1,500,000		
	Construction					13,000,000							13,000,000		
	Total												14,500,000		
	York Region's Share			400,000	800,000	10,400,000									
102	Duffin Creek Water Pollution Control Plant- Reactor 3 and 4 complete refractory and dome replacement	Y2002													Cost sharing with York Region
	Preliminary works and Detailed Design			80,000									80,000		
	Construction				520,000								520,000		
	Total												600,000		
	York Region's Share			442,800											
103	Duffin Creek Water Pollution Control Plant - Blower Building 1 and 2 Control System Replacement	Y2003													Asset Management Plan - the control system has reached the end of its useful service life Cost sharing with York Region
	Conceptual and Detailed Design			160,000									160,000		
	Construction				1,040,000								1,040,000		
	Total												1,200,000		
	York Region's Share				960,000										
104	Duffin Creek Water Pollution Control Plant - Asset Management Remediation and rehabilitation works														Cost sharing with York Region
	Conceptual and Detailed Design			200,000		800,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,500,000	7,500,000		
	Construction			1,800,000		4,200,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	6,500,000	37,500,000		
	Total												45,000,000		
	York Region's Share				1,476,000		3,690,000	4,428,000	4,428,000	4,428,000	4,428,000	4,428,000	5,904,000		
105	Bayly St. Sanitary Sewage Pumping Station - Mechanical Screen Replacement, Motor Control Centre review and upgrades, Ajax	D1714	410,000												Project will be completed in two phases. Phase 1: Replacement of the Mechanical Screen Phase 2: Motor Control Centre (MCC) review & upgrades
	Preliminary works and Detailed Design		940,000	1,450,000									410,000		
	Construction												2,390,000		
	Total												2,800,000		
	York Region's Share														
106	Cloverridge Sanitary Sewage Pumping Station - Mechanical Screen Replacement and review/upgrades to the Motor Control Centre, Ajax														
	Preliminary works/Detailed Design			500,000									500,000		
	Construction				2,200,000								2,200,000		
	Total												2,700,000		
	York Region's Share														

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast								TOTAL	REMARKS	
					2021	2022	2023	2024	2025	2026	2027	2028			2029
<b><u>WHITEBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</u></b>															
107	Cochrane Sanitary Sewage Pumping Station odour control upgrades, Whitby Detailed Design Construction Total	D2024		50,000 300,000									50,000 300,000 350,000	Current unit is not efficient and requires replacement.	
108	Madawaska Sanitary Sewage Pumping Station - New diesel genset, enclosure and associated works, Oshawa Preliminary work/Detailed Design Construction Total	D1118	200,000	1,250,000									200,000 1,250,000 1,450,000		
109	Courtice Water Pollution Control Plant -remediation work at digester No. 1, performance improvements for the grit tank and refurbishment of the mixers Preliminary work/Detailed Design Construction Total	D1920	740,000 960,000	3,500,000									740,000 4,460,000 5,200,000	Preventative maintenance to optimize the performance of the asset and service life of the plant.	
110	Courtice Water Pollution Control Plant - upgrades				350,000	500,000		4,130,000		4,130,000			9,110,000	Allowance for Courtice WPCP upgrades - requirements to be confirmed once the condition assessment has been completed.	
<b><u>CLARINGTON (BOWMANVILLE) SYSTEM</u></b>															
111	Port Darlington Water Pollution Control Plant - Major Maintenance replacement work, Bowmanville Detailed design Construction Total				500,000 1,351,000	6,461,000							500,000 7,812,000 8,312,000	Asset Management Project - Plant No. 1 work required to rehabilitate and renew the existing infrastructure.	
<b><u>BROCK (BEAVERTON) SYSTEM</u></b>															
112	Lake Simcoe Water Pollution Control Plant - Diffused Air System replacement Detailed Design Construction Total	D1716	300,000 1,270,000	1,480,000									300,000 2,750,000 3,050,000	Asset Management Project - the asset has reached the end of its useful service life	
113	Lake Simcoe Water Pollution Control Plant - replacement of clarifier mechanisms Detailed Design Construction Total	D1835	80,000 240,000	100,000									80,000 340,000 420,000	The asset has reached the end of its useful service life	
<b><u>REGION WIDE</u></b>															
114	Fuel Tank Compliance Inspection/Detailed Design Construction Total	D1613	900,000 3,400,000	2,000,000									900,000 5,400,000 6,300,000	Upgrades to the diesel generators and tanks to meet regulatory requirements.	
Sub-total Machinery and Equipment			43,190,000	32,840,000	51,091,000	62,461,000	30,200,000	10,130,000	46,100,000	10,130,000	6,200,000	6,300,000	8,000,000	306,642,000	

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
<b>D</b>	<b>IT INFRASTRUCTURE</b>														
115	SCADA System Master Plan for the sanitary sewage pumping stations and implementation requirements					1,000,000	1,000,000	1,000,000						3,000,000	Asset Management Project - Allowance for SCADA project.
	Sub-total IT Infrastructure			0	0	1,000,000	1,000,000	1,000,000	0	0	0	0	0	3,000,000	
<b>E</b>	<b>ALLOWANCES AND OTHER PROVISIONS</b>														
116	Regional Sewage Master planning study for the Regional Official Plan Review	D1421	800,000			800,000					800,000			2,400,000	
117	Inflow/infiltration monitoring, studies and required remedial works in various locations	D0606	500,000	1,000,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,500,000	Flow monitoring and studies to identify areas of excessive infiltration into sanitary sewers and construction of required remedial works.
118	Emergency Planning Updating Requirements	D1307	175,000	100,000										275,000	Allowance for updating required to ensure optimal performance during an emergency.
119	Asset Condition Assessments - Reports for the Vertical Assets	D1419	1,003,350	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	4,003,350	Provincial requirement to assess condition of all assets and develop a rehabilitation strategy.
120	Asset Condition Assessment/ investigation on trunk sanitary sewer system	D1420	809,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,809,000	Allowance for assessment of large trunk sanitary sewers.
121	Master planning energy management			200,000						200,000				400,000	Study to identify a long term strategy for implementation of an efficient and effective energy policy.
122	Allowance for acquisition of easements	M2001	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,500,000	A number of sanitary sewer are located on easements to which the Region does not have a clear title. This allowance is for acquisition of easement for existing sanitary sewers in various locations.
123	Allowance for engineering studies	M2007	250,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,600,000	Allowance for miscellaneous engineering studies.
124	Phosphorus Reduction Study for Lake Simcoe Water Pollution Control Plants.						250,000							250,000	Potential study for Lake Simcoe Phosphorus Reduction Strategy identified future requirements for improvements to effluent quality at WPCPs. Durham's 4 WPCPs in the Lake Simcoe basin will need to be evaluated.
125	Preliminary engineering	66143	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	Allowance for preliminary engineering carried out in advance of budget provision.
126	Allowance for sundry extensions as per Council policy	M2008	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	150,000	Regional share for sundry extensions.
127	Allowance for unknown requirements	M2009	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	Allowance for unanticipated works.
128	Allowance for land severance review and drawing requirements	M2062	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	Allowance for works required to product drawings for the location of stubbed services in the field.

CONSTRUCTION OF MUNICIPAL SERVICES

2020 CAPITAL BUDGET AND NINE YEAR FORECAST

Item No.	Project Description	Project No.	Budget Prior to 2020	2020 Capital Budget	Nine Year Forecast									TOTAL	REMARKS
					2021	2022	2023	2024	2025	2026	2027	2028	2029		
129	Allowance for Regional share for works in conjunction with residential subdivision development	M2010		1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	1,460,000	14,600,000	Regional share for sanitary sewers related to existing, new residential and new non-residential development, in conjunction with new residential subdivisions.
130	Allowance for Regional share for works in conjunction with non-residential development	M2011		400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	4,000,000	Allowance for possible Regional share in detailed design and construction of sanitary sewers for non-residential development.
131	Allowance for intensification	M2061		350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	3,500,000	Allowance for possible Regional share in detailed design and construction of sanitary sewers for intensification
	Sub-total Improvement/expansion of existing facilities		2,787,350	3,925,000	4,625,000	4,625,000	3,825,000	4,075,000	3,825,000	4,025,000	4,625,000	3,825,000	3,825,000	43,987,350	
	<b>TOTAL GROSS EXPENDITURE</b>		158,776,572	68,949,700	207,547,000	189,281,000	197,411,000	80,771,000	118,031,000	413,976,000	49,681,000	238,056,000	33,756,000	1,756,236,272	

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## PROGRAM SUMMARY



### 2020 Business Plan

### Utility Finance

By Program	2019		2020		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Expense Programs</b>	\$	\$	\$	\$	\$
<b>Operating:</b>					
1 Customer Services	2,771	2,932	2,933	330	3,263
2 Billing and Analysis	3,880	4,064	4,069	228	4,297
3 Headquarters Shared Cost	322	322	330	-	330
<b>Operating Subtotal</b>	6,973	7,318	7,332	558	7,890
<b>Tangible Capital Assets:</b>					
4 Replacement	20	20	90	-	90
Contribution from Reserve / Reserve Fund	-	-	(70)	-	(70)
<b>Tangible Capital Assets Subtotal</b>	20	20	20	-	20
<b>Total Program Expenses</b>	<b>6,993</b>	<b>7,338</b>	<b>7,352</b>	<b>558</b>	<b>7,910</b>
<b>Revenue Programs</b>					
Fees and Charges	(1,313)	(1,336)	(1,383)	-	(1,383)
Recovery from Reserve Funds	-	-	-	(500)	(500)
<b>Total Revenue Programs</b>	<b>(1,313)</b>	<b>(1,336)</b>	<b>(1,383)</b>	<b>(500)</b>	<b>(1,883)</b>
<b>Net Program Expenses</b>	<b>5,680</b>	<b>6,002</b>	<b>5,969</b>	<b>58</b>	<b>6,027</b>

### Summary of Increase (Decrease)

	(\$33)	
	-0.55%	
	\$25	
	0.42%	

### Summary of Base Budget Changes

	\$	Comments
Salaries & Benefits	48	Economic increases
Salaries & Benefits	10	Position reclassification
Operating Expenses	8	Headquarters shared cost
Various	(99)	Line-by-Line Review
Tangible Capital Assets - Replacement	70	Increased requirements
Contribution from Reserve/Reserve Fund	(70)	Increased requirements
	(33)	

## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Utility Finance

\$(000's)

#### Customer Services

<ul style="list-style-type: none"> <li>◆ Proposed new position representing 0.5 FTE, to start July 1, 2020:                             <ul style="list-style-type: none"> <li>◆ One (1) Business Analyst (shared with Billing &amp; Analysis) to support the Region's new utility billing system and customer portal. (Annualized impact is \$62k)</li> </ul> </li> <li>◆ Proposed new position representing 0.5 FTE, to start July 1, 2020:                             <ul style="list-style-type: none"> <li>◆ One (1) Database Administrator (shared with Billing &amp; Analysis) to support the Region's new utility billing system and customer portal. (Annualized impact is \$70k)</li> </ul> </li> <li>◆ Transfer of Business Analyst to Corporate Services – Information Technology, effective January 1, 2020. (0.5 FTE)</li> <li>◆ Decrease in Temporary Salaries and Benefits - backfill staffing no longer required with new billing system implementation.</li> <li>◆ One-time increase in Education and Training related to the utility billing system &amp; customer portal.</li> <li>◆ Decrease in Insertion Charges related to previous billing system.</li> <li>◆ Net increase in Computer Maintenance and Support fees, a portion of which is one-time, for the billing system and customer portal.</li> <li>◆ Increase in Contracted Services for full year transaction fees related to meter cards, bills, payments and customer portal services.</li> </ul>	<p>31</p> <p>35</p> <p>(62)</p> <p>(100)</p> <p>10</p> <p>(2)</p> <p>275</p> <p>143</p> <hr style="border: 0.5px solid black;"/> <p>330</p>
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#### Billing and Analysis

<ul style="list-style-type: none"> <li>◆ Proposed new position representing 0.5 FTE, to start July 1, 2020:                             <ul style="list-style-type: none"> <li>◆ One (1) Business Analyst (shared with Customer Services) to support the Region's new utility billing system and customer portal. (Annualized impact is \$62k)</li> </ul> </li> <li>◆ Proposed new position representing 0.5 FTE, to start July 1, 2020:                             <ul style="list-style-type: none"> <li>◆ One (1) Database Administrator (shared with Customer Services) to support the Region's new utility billing system and customer portal. (Annualized impact is \$70k)</li> </ul> </li> <li>◆ Transfer of Business Analyst to Corporate Services – Information Technology, effective January 1, 2020. (0.5 FTE)</li> <li>◆ Realignment of Utility Finance with Financial Business Processes and Solutions, effective January 1, 2020, to gain operational efficiencies, provide opportunities for staff, and preserve critical pathways for effective provision of services.</li> <li>◆ Decrease in Temporary Salaries and Benefits - backfill staffing no longer required with new billing system implementation.</li> <li>◆ One-time increase in Education and Training related to the utility billing system &amp; customer portal.</li> <li>◆ Net increase in Computer Maintenance and Support fees, a portion of which is one-time, for the billing system and customer portal.</li> <li>◆ Increase in Contracted Services for full year transaction fees related to meter cards, bills, payments and customer portal services.</li> </ul>	<p>31</p> <p>35</p> <p>(62)</p> <p>(79)</p> <p>(125)</p> <p>10</p> <p>275</p> <p>143</p> <hr style="border: 0.5px solid black;"/> <p>228</p>
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## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Utility Finance

\$(000's)

#### Revenues and Recoveries

- ♦ One-time Recovery from Water/Sewer Rate Stabilization Reserve Funds (50% each) for the implementation of the utility billing system and customer portal. (500)

(500)

**Total Program Changes** 58



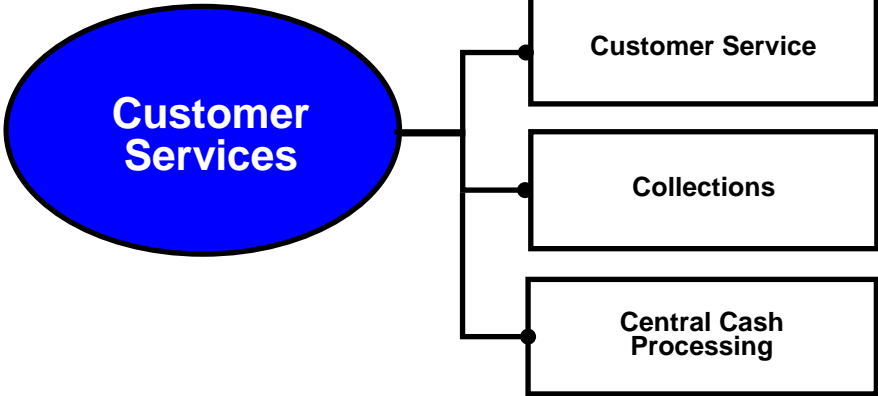


2020 Program Detail

Utility Finance

Purpose:

- ◆ To collect water and sanitary sewer user rate revenues and provide an efficient and effective customer service operation that meets the needs of our customers and maintains the Region's positive image.



Description of Program Activities:

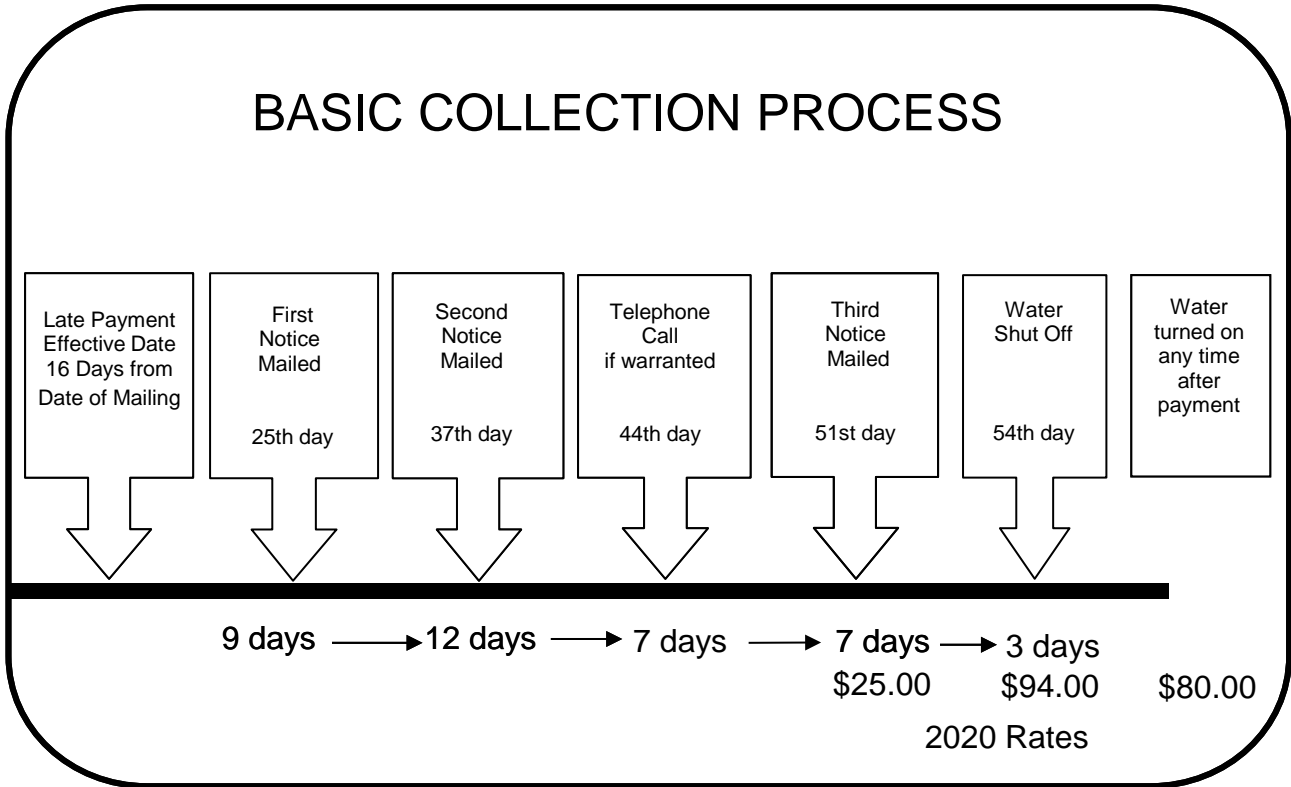
- ◆ **Customer Service** - Respond to water/sanitary sewer customer inquiries (telephone, letter, fax, e-mail, or in person).
- ◆ Provide effective customer service to approximately 176,000 water/sanitary sewer customers, respond to over 100,000 telephone inquiries, over 12,000 e-mails and over 3,900 customer inquiries made in person. Review and take action on over 6,300 lawyer's letters regarding change of ownership.
- ◆ Operate dedicated call centre for customer service inquiries and collections.
- ◆ **Collections** - Collection of outstanding balances related to water and sanitary sewer accounts. Collect approximately \$217 million annually in water/sanitary sewer revenues (keeping overall write-offs very low at 0.06% of revenues).
- ◆ Issue collection notices, place collection calls, negotiate and monitor customer-specific payment arrangements, transfer arrears to local municipal taxation offices, utilize collection agency and shut-off services as a last resort for non-payment of account. Handle collections related to power of sale notifications.
- ◆ Field collections staff visit premises for on-site collection and shut-off of services where necessary.
- ◆ **Central Cash Processing** - Receipt and deposit activity related to water/sanitary sewer payments and other Regional payments (social housing, childcare, police, long-term care, landfill, and other miscellaneous services and revenues).
- ◆ Provide front counter cashier services for payment of all Regional services consisting of water and sanitary sewer accounts and other Regional services. Sell transit fare media to approximately 2,000 customers annually.
- ◆ Receive, deposit and record approximately 787,000 water/sanitary sewer payments:
  - a) Electronic - 759,000 payments
  - b) Mail - 21,500 payments
  - c) Counter (in person) - 2,800 payments
  - d) Drop Boxes - 3,900 payments



**2020 Program Detail**

**Utility Finance**

**Description of Program Activities (Continued):**



**Description of Program Resources:**

- ◆ 2020 Full Time Staff = 22.25      New: 0.5 Business Analyst, 0.5 Database Administrator
- 2019 Full Time Staff = 21.75      Transfer: 0.5 Business Analyst to Corporate Services - Information Technology

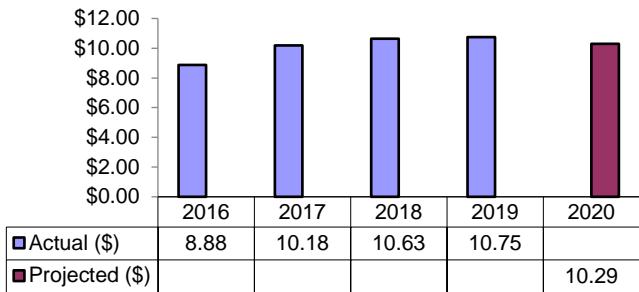


**2020 Program Detail**

**Utility Finance**

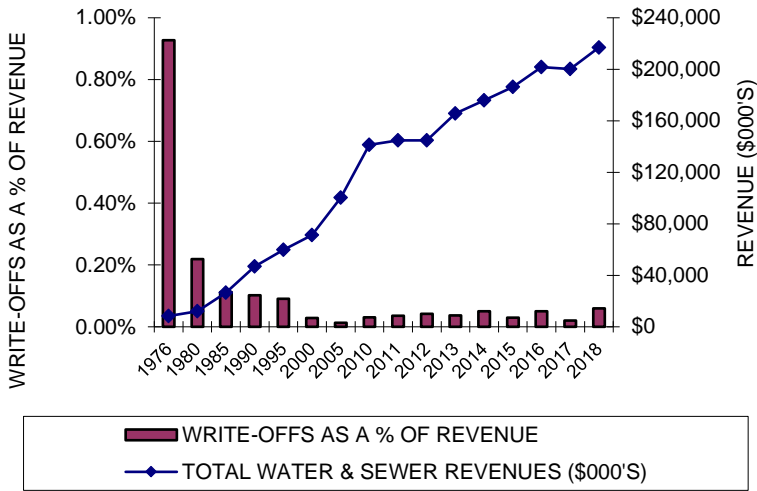
**Performance Measurements:**

**EFFICIENCY**



**Cost of Incoming Queue Call per Customer Services Call Centre Rep**

Customer Service reps handle about 100,000 in-bound calls, as well as making collection calls and performing other customer inquiry and collection activities.



**Total Revenues and Write-offs as a Percentage of Total Revenue**

Some of the water and sanitary sewer billings are uncollectible. Currently, the value of write-offs as a percentage of revenue is a very respectable 0.06% of revenues and is expected to remain at this level.

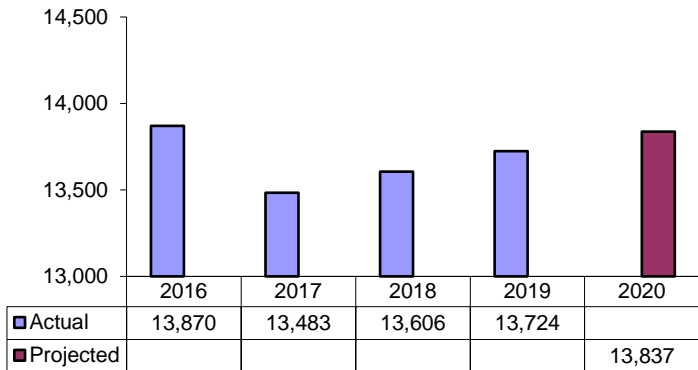


2020 Program Detail

Utility Finance

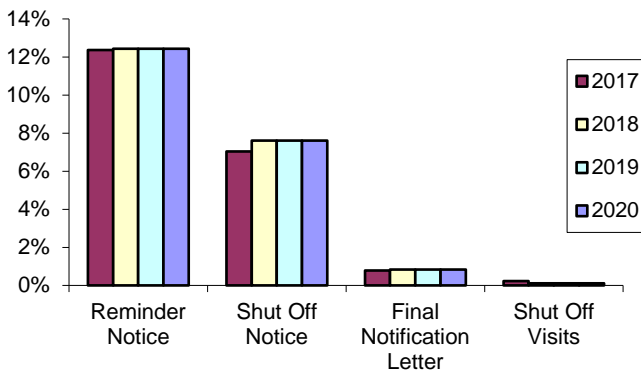
Performance Measurements (Continued):

EFFECTIVENESS



Accounts/Customer Service Staff

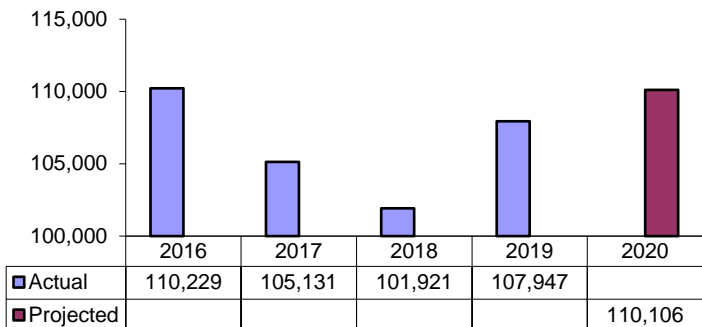
The number of accounts per customer service staff ratio is anticipated to remain at approximately the same level as the prior year.



Collection Activities as a Percentage of Bills Issued

Collection activity is expected to remain about the same as prior years, with only an estimated 1% increase in the number of accounts.

COMMUNITY IMPACT



Calls Answered by Customer Services

Complex customer inquiries take longer to answer in a satisfactory manner.

**PROGRAM 1  
CUSTOMER SERVICES**



**2020 Program Detail**

**Utility Finance**

Detailed Cost of Program:	2019		2020		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	2,091	2,279	2,309	(96)	2,213
Personnel Related	3	12	12	10	22
Communications	68	90	81	(2)	79
Supplies	20	34	34	-	34
Computer Maintenance & Operations	330	385	385	275	660
Materials & Services	17	12	12	-	12
Equipment Maintenance & Repairs	1	9	9	-	9
Vehicle Operations	6	7	7	-	7
Professional Services	200	50	50	-	50
Contracted Services	-	-	-	143	143
Financial Expenses	34	31	31	-	31
Minor Assets & Equipment	1	3	3	-	3
Major Repairs & Renovations	-	20	-	-	-
<b>Gross Operating Expenses</b>	<b>2,771</b>	<b>2,932</b>	<b>2,933</b>	<b>330</b>	<b>3,263</b>

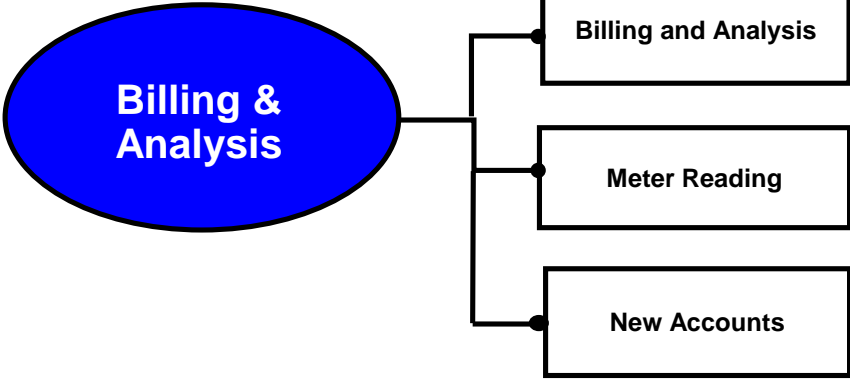


**2020 Program Detail**

**Utility Finance**

**Purpose:**

- ◆ To promptly invoice customers for water and sanitary sewer services provided by the Region of Durham as well as controlling all meter reading, accounting transactions, revenue analysis and reporting requirements.



**Description of Program Activities:**

- ◆ **Billing & Analysis** - Control the production and issuance of water/sewer bills and manage all accounting activity, revenue forecasting and reporting requirements.
- ◆ Issue over 700,000 water/sewer bills (approximately \$218 million in revenue) annually for over 176,000 water and sewer customers (including almost 172,000 residential customers and over 4,800 industrial, commercial and institutional (ICI) customers).
- ◆ **Meter Reading** - Obtain water meter readings associated with residential, ICI, and Final (Customer moves) accounts, as well as investigating and assisting customers to identify water consumption problems.
  - ◆ Residential Readings (quarterly)
    - a) Customer Meter Card Program - 3 mailed cards per year (over 377,000 readings). 93% of all returned customer readings are submitted through the TeleRead program.
    - b) Region Meter Reads - 1 time per year/customer (almost 172,000 readings).
    - c) Customer Site Investigations - Assist customers in resolving high consumption issues (almost 9,000 site investigations annually).
  - ◆ ICI Readings - bi-monthly meter readings obtained by Regional meter readers (over 30,000 reads annually).
  - ◆ Final Readings - over 10,000 annual readings coordinated with customers when they move.
  - ◆ Meter Reading Assistance Program - Obtain meter readings for those customers who find it difficult to read the meters (over 36,000 readings annually for 9,173 customers).
- ◆ **New Accounts** - Control and set up of all new customer accounts (approximately 1,800 new accounts) and premises.



**2020 Program Detail**

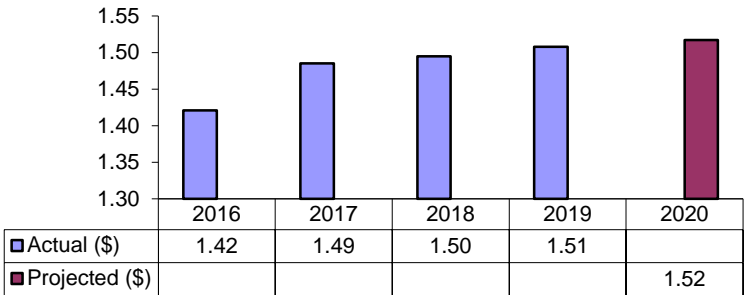
**Utility Finance**

**Description of Program Resources:**

- ◆ 2020 Full Time Staff = 19.25      New: 0.5 Business Analyst, 0.5 Database Administrator
- Transfer: 1 Field Investigator, 0.5 Business Analyst to Corporate Services - Information Technology
- 2019 Full Time Staff = 19.75

**Performance Measurements:**

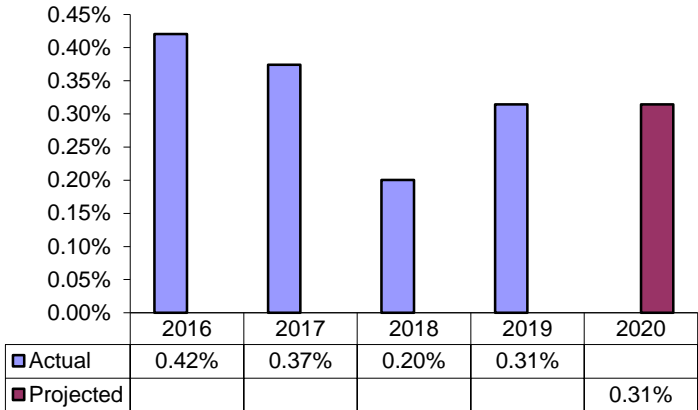
**EFFICIENCY**



**Cost per Bill**

The cost per bill is expected to show a marginal increase in 2020.

**EFFECTIVENESS**



**Percentage of Accounts With 4 or More Consecutive Estimates**

Receiving actual reads results in more accurate bills and highlights consumption problems faster. Due to dedicated work being done in recent years via meter reading visits to properties, increased remote reading capabilities and customer contacts, the number of accounts with 4 or more consecutive estimates remains below 1%, despite the increase in the number of accounts.

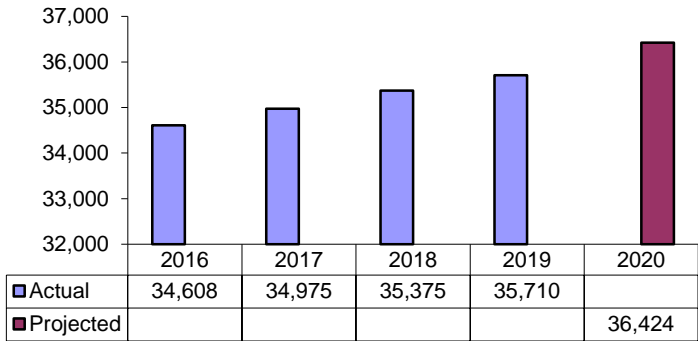


**2020 Program Detail**

**Utility Finance**

**Performance Measurements (Continued):**

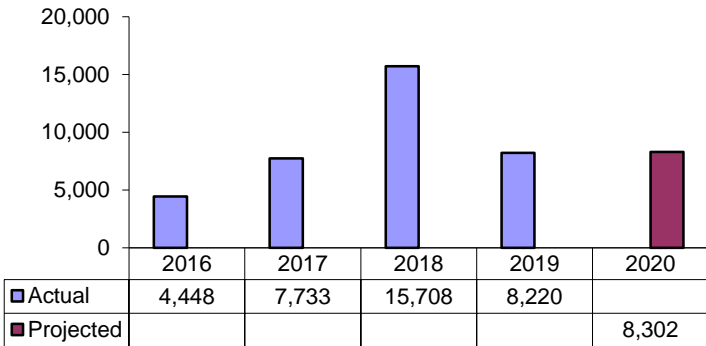
**EFFECTIVENESS (CONTINUED)**



**Billing Staff/Accounts Ratio**

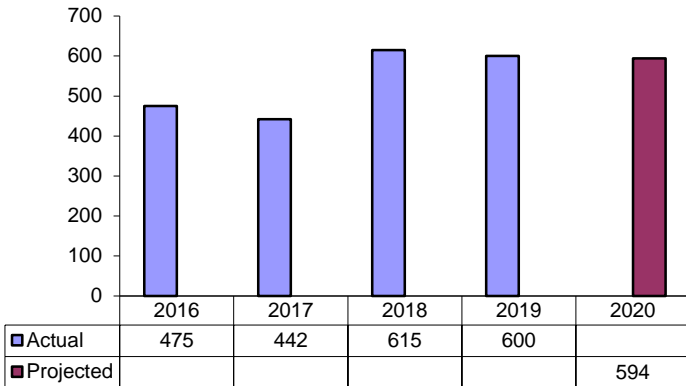
The number of accounts handled by each staff member is expected to increase yearly due to customer growth.

**COMMUNITY IMPACT**



**General Meter Reading Site Visits**

General meter reading site visits are expected to continue to be high over the next few years as we concentrate on reducing our estimated accounts (with more frequent site visits).



**Scheduled Customer Meter Reading Appointments**

Scheduled meter reading appointments are made to assist customers in locating plumbing problems. The number of meter reading appointments is expected to be similar to the prior year.



**PROGRAM 2  
BILLING AND ANALYSIS**



**2020 Program Detail**

**Utility Finance**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Proposed Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	1,913	2,170	2,198	(200)	1,998
Personnel Related	3	13	13	10	23
Communications	1,084	1,054	1,041	-	1,041
Supplies	140	135	135	-	135
Computer Maintenance & Operations	330	385	385	275	660
Materials & Services	8	15	15	-	15
Equipment Maintenance & Repairs	12	9	9	-	9
Vehicle Operations	25	21	21	-	21
Professional Services	200	60	60	-	60
Contracted Services	150	165	165	143	308
Financial Expenses	3	3	3	-	3
Minor Assets & Equipment	-	2	2	-	2
Major Repairs & Renovations	-	20	10	-	10
Contribution to Reserve / Reserve Fund	12	12	12	-	12
<b>Gross Operating Expenses</b>	<b>3,880</b>	<b>4,064</b>	<b>4,069</b>	<b>228</b>	<b>4,297</b>

**PROGRAM 3  
HEADQUARTERS SHARED COST**



**2020 Program Detail**

**Utility Finance**

<b>Detailed Cost of Program:</b>	<b>2019</b>		<b>2020</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Restated Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Proposed Budget</b>
<b>Operating Expenses</b>					
Personnel Expenses	1,207	1,216	1,196	60	1,256
Communications	630	650	650	-	650
Supplies	112	112	112	-	112
Utilities	1,098	1,098	1,149	-	1,149
Materials & Services	59	27	27	32	59
Buildings & Grounds Operations	1,177	1,235	1,164	(7)	1,157
Equipment Maintenance & Repairs	14	12	12	7	19
Professional Services	24	20	20	4	24
Contracted Services	809	802	811	76	887
Financial Expenses	182	182	182	-	182
Major Repairs & Renovations	145	209	-	95	95
Contribution to Reserves / Reserve Funds	637	637	-	-	-
Call Centre Operations	592	687	604	255	859
Front Counter Operations	373	374	388	10	398
<b>Operating Expenses Subtotal</b>	<b>7,059</b>	<b>7,261</b>	<b>6,315</b>	<b>532</b>	<b>6,847</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Facilities Management & Shipping/Receiving Charge	412	421	396	-	396
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>412</b>	<b>421</b>	<b>396</b>	<b>-</b>	<b>396</b>
<b>Gross Operating Expenses</b>	<b>7,471</b>	<b>7,682</b>	<b>6,711</b>	<b>532</b>	<b>7,243</b>
<b>Tangible Capital Assets</b>					
New	60	60	-	345	345
Replacement	676	676	36	8,439	8,475
Federal Grant	-	-	-	(20)	(20)
Contribution From Reserves / Reserve Funds	(113)	(113)	-	(7,418)	(7,418)
<b>Total Tangible Capital Assets</b>	<b>623</b>	<b>623</b>	<b>36</b>	<b>1,346</b>	<b>1,382</b>
<b>Debt Charges</b>					
Debt Charges	4,594	4,594	4,594	-	4,594
<b>Total Debt Charges</b>	<b>4,594</b>	<b>4,594</b>	<b>4,594</b>	<b>-</b>	<b>4,594</b>

**PROGRAM 3  
HEADQUARTERS SHARED COST**



**2020 Program Detail**

**Utility Finance**

Detailed Cost of Program:	2019		2020		
(\$,000's)	Estimated Actuals	Restated Budget	Base Budget	Program Change	Proposed Budget
<b>Revenues</b>					
Rents	(25)	(25)	(25)	-	(25)
Sundry Revenue	(4)	(4)	(4)	-	(4)
<b>Total Revenues</b>	<b>(29)</b>	<b>(29)</b>	<b>(29)</b>	<b>-</b>	<b>(29)</b>
<b>Net Program Expenses</b>	<b>12,659</b>	<b>12,870</b>	<b>11,312</b>	<b>1,878</b>	<b>13,190</b>
<b>Department's Share of Net Program Expenses</b>	<b>322</b>	<b>322</b>	<b>282</b>	<b>48</b>	<b>330</b>

**PROGRAM 4  
TANGIBLE CAPITAL ASSETS - REPLACEMENT**



**2020 Program Detail**

**Utility Finance**

Description	Qty	Unit Cost	Total
		\$	\$
<b><u>Customer Services - Program 1</u></b>			
1 Desktop Computers	14	800	11,200
2 Laptop Computer	1	1,700	1,700
			12,900
<b><u>Billing and Analysis - Program 2</u></b>			
3 Meter Reading Devices			7,000
4 Vans (Financed by Equipment Reserve)	2	35,000	70,000
			77,000
			<b>89,900</b>

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**REGIONAL CORPORATE COSTS**  
**FOR WATER AND SEWER**

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## PROGRAM SUMMARY



### 2020 Business Plan

### Regional Corporate Costs for Water

By Program	2019		2020		
(\$,000's)	Estimated	Restated	Base	Program	Approved
<u>Expense Programs</u>	<u>Actuals</u>	<u>Budget</u>	<u>Budget</u>	<u>Change</u>	<u>Budget</u>
	\$	\$	\$	\$	\$
Communication	40	21	51	-	51
Professional Services	70	25	75	-	75
Contribution to Reserve Funds	5,882	5,882	6,166	-	6,166
Contribution to Capital Fund	804	804	1,091	-	1,091
Debt Issuance Expense	-	24	24	-	24
Insurance	439	439	439	-	439
Interest Expense	204	176	176	-	176
Bad Debt Expense	27	34	34	-	34
Allocation of Admin Charges	3,975	3,975	4,027	-	4,027
<b>Net Program Expenses</b>	<b>11,441</b>	<b>11,380</b>	<b>12,083</b>	<b>-</b>	<b>12,083</b>

Summary of Increase (Decrease)

	<b>\$703</b>	
→	<b>6.18%</b>	→
→	<b>\$703</b>	→
→	<b>6.18%</b>	→

### Summary of Base Budget Changes

	\$	Comments
Allocation of Admin Charges	52	Economic increases
Other Services	80	Inflationary increases
Water Rate Stabilization Reserve Fund	33	Inflationary increase
Water Asset Management Reserve Fund	251	Inflationary increase
Capital Projects (Water Share)	287	Modernization and enhancement of corporate systems
	<b>703</b>	

## PROGRAM SUMMARY



### 2020 Business Plan

### Regional Corporate Costs for Sewer

By Program	2019		2020		
(\$,000's)	Estimated	Restated	Base	Program	Approved
<u>Expense Programs</u>	<u>Actuals</u>	<u>Budget</u>	<u>Budget</u>	<u>Change</u>	<u>Budget</u>
	\$	\$	\$	\$	\$
Communciation	40	21	51	-	51
Professional Services	78	27	87	-	87
Contribution to Reserve Funds	9,294	9,294	9,729	-	9,729
Contribution to Capital Fund	854	854	1,138	-	1,138
Debt Issuance Expense	-	25	25	-	25
Insurance	574	574	574	-	574
Interest Expense	110	115	115	-	115
Bad Debt Expense	35	47	47	-	47
Allocation of Admin Charges	3,378	3,378	3,433	-	3,433
Recovery from Rate Stabilization Reserve Fund	-	-	-	(1,750)	(1,750)
<b>Net Program Expenses</b>	<b>14,363</b>	<b>14,335</b>	<b>15,199</b>	<b>(1,750)</b>	<b>13,449</b>

#### Summary of Increase (Decrease)

	<b>\$864</b>	
	<b>6.03%</b>	
		<b>(\$886)</b>
		<b>-6.18%</b>

#### Summary of Base Budget Changes

	\$	Comments
Allocation of Admin Charges	55	Economic increases
Other Services	90	Inflationary increases
Sewer Rate Stabilization Reserve Fund	32	Inflationary increase
Sewer Asset Management Reserve Fund	403	Inflationary increase
Capital Projects (Sewer Share)	284	Modernization and enhancement of corporate systems
	<b>864</b>	

## EXPLANATION OF PROGRAM CHANGES



### 2020 Program Changes

### Regional Corporate Costs for Sewer

#### Recovery from Rate Stabilization Reserve Fund

♦ Recovery from the Rate Stabilization Reserve Fund as directed by Regional Council on December 16, 2019.	(1,750)
	<u>(1,750)</u>
<b>Total Program Changes</b>	<b><u><u>(1,750)</u></u></b>