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**2016 BUSINESS PLANS & BUDGETS**

**CONSOLIDATED BUDGETS FOR**

**WATER SUPPLY SYSTEM**

**AND**

**SANITARY SEWERAGE SYSTEM**

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The Regional Municipality of Durham  
Report to: The Finance and Administration Committee  
From: Commissioner of Finance  
Report #: 2016-F-9  
Date: February 9, 2016

**Subject:**

2016 Current and Capital Business Plans and Budgets and Nine Year Forecasts for the Water Supply and Sanitary Sewerage Systems

**Recommendations:**

That the Finance and Administration Committee recommend to Regional Council:

- 1) **2016 CURRENT AND CAPITAL BUSINESS PLANS AND BUDGETS FOR THE WATER SUPPLY SYSTEM**
  - a) That the 2016 Current and Capital Business Plans and Budgets for the Water Supply System, with a total gross expenditure of \$112,835,000 (net user rate supported expenditure of \$95,747,000) and related financing as set out below, be approved:

<u>EXPENDITURES</u>	<u>Gross Budget (\$ 000's)</u>
Operations:	
Watermain Cleaning & Repair	3,260
Valves & Hydrants	2,883
Water Connections	4,160
Water Meters	689
Depot Operations	5,601
Plants East	2,719
Plants Central	13,759
Plants North	2,759
Sun Valley	27
Engineering & Staff Support	6,832
Facilities Management	6,369
Administration	285
Headquarters Shared Costs	1,009
Utility Finance	2,930
Share of Regional Corporate Costs	5,865
Contribution to Asset Management Reserve Fund	4,294
Sub-Total Operations	<u>63,441</u>
Capital/Debt Charges:	
TCA Capital	2,314
TCA Construction	47,080
Sub-Total Capital/Debt Charges	<u>49,394</u>
<b>TOTAL EXPENDITURES</b>	<b><u>112,835</u></b>
<u>FINANCING</u>	
Contributions from Reserve Funds:	
Residential Development Charges-Growth Related Capital	10,455
Commercial Development Charges-Growth Related Capital	313
Asset Management Reserve	4,089
Equipment Replacement Reserve	44
Fees and Service Charges	2,027
Financing from others:	
Region of York - TCA Construction	125
Oversizing Costs Related to Seaton / Federal Lands	35
<b>Financing from non-user revenue sources</b>	<b><u>17,088</u></b>
<b>User Revenues Financing (inc. frontage charges)</b>	<b><u>95,747</u></b>
<b>TOTAL FINANCING</b>	<b><u>112,835</u></b>

- b) That the Nine Year Capital Expenditure Forecast for 2017 to 2025 inclusive, in the amount of \$0.8 billion as detailed in the Water Supply System Capital Budget, be received for information.

2) **2016 CURRENT AND CAPITAL BUSINESS PLANS AND BUDGETS FOR THE SANITARY SEWERAGE SYSTEM**

- a) That the 2016 Current and Capital Budgets for the Sanitary Sewerage System with a total gross expenditure of \$258,288,000 (net user rate supported expenditure of \$94,671,000) and related financing as set out below, be approved:

<u>EXPENDITURES</u>	<b>Gross Budget (\$ 000's)</b>
Operations:	
Cleaning, Repairs & Maintenance Holes	1,698
Sewer Connections	2,655
Depot Operations	3,065
WPCPs and Pumping Stations	23,026
Duffin Creek WPCP	37,082
Regional Environmental Laboratory	2,513
Engineering & Staff Support	6,180
Facilities Management	6,334
Administration	288
Headquarters Shared Costs	1,009
Utility Finance	2,930
Share of Regional Corporate Costs	5,429
Contribution to Asset Management Reserve Fund	3,778
Sub-Total Operations	<u>95,987</u>
Capital/Debt Charges:	
Duffin Creek WPCP - TCA Capital	1,456
TCA Capital	883
TCA Construction	138,042
Debt Charges	21,920
Sub-Total Capital/Debt Charges	<u>162,301</u>
<b>TOTAL EXPENDITURES</b>	<b><u>258,288</u></b>
 <u>FINANCING</u>	
Contributions from Reserve Funds:	
Residential Development Charges-Growth Related Capital	9,204
Residential Development Charges-Debt Charges	10,111
Commercial Development Charges-Growth Related Capital	1,895
Commercial Development Charges-Debt Charges	1,507
Asset Management Reserve	3,498
Equipment Replacement Reserve	32
Fees and Service Charges	5,453
Financing from others:	
Region of York - TCA Construction	47,786
Region of York - TCA	1,019
Developer Contribution	40,016
Region of York - Operating	28,607
Debenture Proceeds:	
Courtice Trunk Sanitary Sewer, Clarington	14,489
<b>Financing from non-user revenue sources</b>	<b><u>163,617</u></b>
<b>User Revenues Financing (inc. frontage charges)</b>	<b><u>94,671</u></b>
<b>TOTAL FINANCING</b>	<b><u>258,288</u></b>

- b) That the Nine Year Capital Expenditure Forecast for 2017 to 2025 inclusive, in the amount of \$1.2 billion as detailed in the Sanitary Sewerage System Capital Budget, be received for information.

**3) OTHER**

- a) That a contribution from the Sun Valley Capital Reserve in the amount of \$12,600 be authorized in order to replace a failing water main on Bickle Drive in the City of Oshawa that serves the Sun Valley residents;
- b) That the proposed water main and sanitary sewer on Thornton Road (from 500 metres north of Taunton Road to just south of Conlin Road in the City of Oshawa) included in the 2016 Budget (estimated at \$3.7 million) be funded by water supply and sanitary sewer user rates as these capital projects were not included in the 2013 Development Charge Study;
- c) That the necessary By-laws with respect to the 2016 Current and Capital Business Plans and Budgets for the Water Supply and Sanitary Sewerage Systems be presented to Council; and
- d) That capital project approval be given for the expenditures and financing shown on the 2016 Capital Project Detail Forms in the 2016 Water Supply and Sanitary Sewerage Current and Capital Budgets where award of the contract is in accordance with the Regional Budget Management Policy.

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**Report:**

**1. OVERVIEW OF RECOMMENDED 2016 WATER SUPPLY AND SANITARY SEWERAGE BUSINESS PLANS AND BUDGETS**

- On December 16, 2015, Regional Council approved the 2016 water and sewer user rate increase of 5.0% overall (5.6% for water and 4.4% for sewer).
- On February 3, 2016 the Works Committee reviewed and approved the Works Department portion of the proposed 2016 Current and Capital Business Plans and Budgets for the Water Supply and Sanitary Sewerage Systems.
- Accordingly, the consolidated 2016 Water Supply and Sanitary Sewerage Business Plans and Budgets are included for consideration by the Finance and Administration Committee for review and recommendation to Regional Council on February 17, 2016.

- The 2016 Current and Capital Budgets and the Nine Year Forecast for the Water Supply and Sanitary Sewerage Systems, as recommended in this report, reflect the financial parameters of the recommended user rate increase (Report #2015-J-59), as well as the 2016 Water and Sewer Servicing and Financing Study (Report #2015-J-58).

## 2. HIGHLIGHTS OF THE 2016 WATER SUPPLY AND SANITARY SEWERAGE BUSINESS PLANS AND BUDGETS

### 2.1 2016 Water Supply and Sanitary Sewerage Programs

- The following table provides the total user rate financing requirements for the 2015 and 2016 Water Supply and Sanitary Sewerage Operating and Capital Programs. Approximately \$95.7 million and \$94.7 million in user rate funding is required for the 2016 Water Supply and Sanitary Sewerage Programs, respectively.

**Table 1**  
**2015 & 2016 Water Supply and Sanitary Sewerage Programs**  
**(\$ millions)**

	<u>Water Supply</u>			<u>Sanitary Sewerage</u>		
	<u>2015</u>	<u>2016</u>	<u>Inc/Dec</u>	<u>2015</u>	<u>2016</u>	<u>Inc/Dec</u>
<b>Operating Costs</b>	<b>\$ 57.8</b>	<b>\$ 61.4</b>	<b>\$ 3.6</b>	<b>\$ 60.5</b>	<b>\$ 61.9</b>	<b>\$ 1.4</b>
<b>Debt Charges (user rates)</b>	-	-	-	<b>10.6</b>	<b>10.3</b>	<b>(0.3)</b>
Tangible Capital Assets	3.7	2.3	(1.4)	3.6	2.4	(1.2)
Construction of Municipal Services						
- Region	61.8	46.9	(14.9)	32.8	88.7	55.9
- York Durham	-	0.2	0.2	4.0	49.3	45.3
<b>Total Capital Costs</b>	<b>65.5</b>	<b>49.4</b>	<b>(16.1)</b>	<b>40.4</b>	<b>140.4</b>	<b>100.0</b>
<b>Less Recoveries</b>						
Development Charges - Upfront	27.0	10.8	(16.2)	11.8	11.1	(0.7)
Debentures	-	-	-	-	14.5	14.5
Asset Management Reserve Fund	4.1	4.1	-	3.5	3.5	-
York Region	-	0.1	0.1	4.8	48.8	44.0
Other Financing	1.5	0.1	(1.4)	-	40.0	40.0
<b>Net Capital Costs (recovered from user rates)</b>	<b>32.9</b>	<b>34.3</b>	<b>1.4</b>	<b>20.3</b>	<b>22.5</b>	<b>2.2</b>
<b>TOTAL NET FINANCING (user rates)</b>	<b>\$ 90.7</b>	<b>\$ 95.7</b>	<b>\$ 5.0</b>	<b>\$ 91.4</b>	<b>\$ 94.7</b>	<b>\$ 3.3</b>

- The 2016 Water Supply System user rate increases are mainly due to the following:
  - increased staffing of 4.6 FTE (\$221,000 or \$442,000 annualized);
  - wages and benefit increases (\$370,500);
  - annualization of 3.3 FTE from 2015 (\$173,000);
  - increase of costs for hydro and natural gas (\$516,000);

- increase in forecasted requirements for water main clean / repair and valves and hydrants (\$534,000);
  - increase in forecasted requirements for water connections (\$1.8 million);
  - increase in the asset management reserve fund contribution (\$205,000); and
  - increase in capital costs (recovered from user rates) of \$1.4 million (\$1.1 million due to increase in polybutylene water service connection program).
- The 2016 Sanitary Sewerage System user rate increases are mainly due to the following:
    - increased staffing of 1.3 FTE (\$54,000 or \$108,000 annualized);
    - wages and benefit increases (\$478,500);
    - annualization of 1.9 FTE from 2015 (\$100,000);
    - increase of costs for hydro and natural gas (\$400,000);
    - increase in forecasted requirements for sewer connections (\$410,000);
    - increase in the asset management reserve fund contribution (\$180,000);
    - decrease in debt servicing costs (\$0.3 million); and
    - increase in capital costs (recovered from user rates) of \$2.2 million.
- The 2016 water and sewer capital programs also include the application of development charge funding for growth-related capital projects (\$10.8 million for water supply and \$11.1 million for sanitary sewerage).

## **2.2 2016 Water Supply and Sewer Capital Program**

- The 2016 Water Supply Tangible Capital Asset Program of \$49.4 million (includes \$47.1 million in construction of municipal services and \$2.3 million for other capital such as vehicles, computer equipment and depot upgrades) reflects the financing required from user rate revenue, development charge revenue, and contributions from the asset management reserve fund.
- The 2016 Sanitary Sewerage Capital Program of \$140.4 million (\$138.0 million in construction of municipal services and \$2.4 million other capital assets such as vehicles, computer equipment and depot upgrades) can be funded from user rate revenue, development charge revenue, a contribution from the asset management reserve and financing from other sources as follows:
  - \$48.8 million from the Region of York for their share of system improvements at the Duffin Creek WPCP; and
  - \$40.0 million from private developers for the West Whitby Sanitary Sewer and Pumping Station.

- Some of the major components of the 2016 Water Supply and Sanitary Sewerage Capital Program include:

**Table 2**  
**2016 Major Water Supply and Sanitary Sewerage Capital Program**

<b>Water Supply</b>	<b>\$million</b>	<b>Sanitary Sewer</b>	<b>\$million</b>
Replacement of polybutylene service connections. Year 5 of the 10-year funding strategy to replace 100% of the failing connections by 2021 as approved by Regional Council in 2011	\$14.5	West Whitby Trunk Sanitary Sewer, Pumping Station and Forcemain (100% developer funding – West Whitby)	\$40.0
Watermain replacement to address critical needs	9.8	Duffin Creek WPCP Stage I and II upgrades (100% York Region funding)	43.6
New feeder mains (design and construction) in the City of Oshawa, Town of Ajax, Municipality of Clarington and Township of Scugog	9.3	Courtice Trunk Sanitary Sewer Construction, City of Oshawa and Municipality of Clarington	26.1
Replacement of water meters	3.1	Harmony Creek WPCP upgrades	3.4
Bowmanville Water Supply Plant – Filter refurbishment and chlorine gas scrubber	2.7	Duffin Creek WPCP – Digester improvements (\$5.0 million, York share is \$3.7 million)	1.3
Environmental Assessment (EA) work for new water storage facilities and pumping stations in Oshawa, Whitby and Clarington	1.6	Sanitary sewer replacement to address critical needs	5.4
Detailed design of the Whitby Water Supply Plant and Laboratory upgrades at the Duffin Creek WPCP	1.3	New trunk sanitary sewers in Oshawa, Newcastle and Scugog (design and construction)	4.8
		System upgrades for Pickering West Shore area – additional funding required	1.4
		New lagoon in Sunderland to allow cleanout and maintenance of existing lagoons – additional funding required	0.9

- The 2016 Water Supply and Sanitary Sewerage Capital Budget includes a new water main and sanitary sewer on Thornton Road from 500 meters north of Taunton Road to just south of Conlin Road in the City of Oshawa at an estimated cost of \$3.7 million (\$2.1 million for the water main and \$1.6 million for the sanitary sewer). This infrastructure will service non-residential lands abutting Thornton Road and were not included in the 2013 Regional Development Charge Study. These projects are recommended to be funded 100% from water supply and sanitary sewer rates.

- The Region approved the establishment of an Asset Management Reserve Fund in 2004 to provide financing for future high priority replacement and rehabilitation needs to the Water Supply and Sanitary Sewerage systems. The 2016 Water Supply and Sanitary Sewerage Capital Budgets include draws of \$4.1 million for Water Supply and \$3.5 million for Sanitary Sewerage from the Asset Management Reserve Funds.

### **2.3 Debt Charges**

- There are no existing debt charges for Water Supply. However, debt financing is anticipated for 2019 for the Whitby water supply plant (estimated at \$130.0 million), resulting in anticipated debt charges of \$13.0 million starting in 2020, a portion (approximately \$8.3 million) of which is recoverable from residential development charges.
- There are on-going debt charge commitments for sewer, mainly related to the York Durham Sewer System, 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. The 2016 debt charges for the Sanitary Sewerage budget totalling \$21.9 million includes \$10.1 million to be recovered from residential sewer development charge revenue (nearly 1,200 new units) and \$1.5 million in debt charges will be recovered from commercial development charges. Approximately \$10.3 million is to be recovered from user rates.
- Debt charges for sanitary sewer are anticipated to increase to \$25.6 million by 2020 with debenture requirements for the Courtice Trunk Sanitary Sewer and Duffin Creek WPCP. There will be a decrease in debt charges to \$20.6 million by 2025 as debt is retired for the Duffin Creek WPCP and Courtice WPCP.

### **2.4 Utility Finance**

- The Utility Finance Division of the Finance Department is included in the water supply and sanitary sewerage budget as it is fully funded by water and sewer user rates. This area provides three main services:
  - Customer service (including collections and cash processing) – to provide customer service to over 170,000 water/sanitary sewer customers, respond to over 124,000 inquiries (telephone and e-mails) and collection of approximately \$190 million annually;
  - Billing and Analysis – responsible to issue approximately 688,000 water/sewer bills annually to over 170,000 customers and setting up new customer accounts; and
  - Meter Reading – responsible for obtaining water meter readings associated with residential and non-residential customer accounts as well as investigating and assisting customers to identify water consumption issues.



## 2.5 Sun Valley

- The Sun Valley Heights Homeowners Co-operative water supply system is a privately owned water supply system servicing 17 individual residential properties in the City of Oshawa, north of Conlin Road and west of Thornton Road. On August 3, 2000, the Region of Durham was issued an order by the Province to maintain and operate the existing private water system. The Region operates the Sun Valley system in compliance with the order and requirements of Ontario Drinking Water Protection Regulation 170/03. The costs incurred to operate and maintain the system are billed to each property owner on a quarterly basis.
- A portion of the water main on Bickle Drive that services the Sun Valley residents is failing. The Region is going to replace the water main in 2016 (estimated at \$12,600) with funding from the Sun Valley capital reserve.

## 3. CONCLUSION

- The 2016 Water Supply and Sanitary Sewerage Business Plans and Budgets can be financed within the proposed overall water supply and sanitary sewerage user rate increase of 5.0% and other related funding including development charges and fees/charges.
- Accordingly, the 2016 Business Plans and Budgets for Water Supply and Sanitary Sewerage Systems are recommended for approval.

*R. J. Clapp*

R. J. Clapp, CPA, CA  
Commissioner of Finance

Recommended for Presentation to Committee

*Garry Cubitt*

Garry H. Cubitt, M.S.W.  
Chief Administrative Officer

## ATTACHMENTS

On Attached CD:

Detailed Consolidated 2016 Business Plans & Budgets for Water Supply and Sanitary Sewerage

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**2016 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, and the extensive replacement of polybutylene services.
- ◆ 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 still in service.

**Water Supply and Treatment**

- ◆ 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 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 2.4 - Protect the quality and quantity of both ground and surface water.**

**Responsibility - Lead**

**Key Deliverables**

- ◆ Compliance with applicable provincial and federal acts and legislation/regulations.
- ◆ Promote and support water resources conservation and management initiatives.
- ◆ Protect areas of high aquifer vulnerability when considering new development or site alteration.
- ◆ Plan for the replacement of identified aged infrastructure to improve water quality delivery and the protection of the environment.
- ◆ Plan for source water/groundwater protection.

**Performance Targets**

- ◆ Compliance achieved/inspection ratings.
- ◆ Water consumption per unit.
- ◆ # of hectares of high aquifer vulnerability protected.



**2016 Business Plan**

**Works - Water Supply System**

**Strategic Goal 3.4** - Support the co-ordination of growth with the provision of both hard and soft infrastructure and services.

**Responsibility** - Lead

**Key Deliverables**

- ◆ Ensure that an adequate supply of necessary services and infrastructure are available to accommodate anticipated levels of growth.
- ◆ Co-ordinate where possible Regional servicing to employment lands based upon the business planning process and support the aggressive marketing of this land in partnership with local area municipalities.

**Performance Targets**

- ◆ Infrastructure financing strategies implemented consistent with Regional processes.

**Strategic Goals**

**Responsibility** - Support

<b>Goal</b>	<b>Description</b>
2.1	Protect and enhance the environment for today and tomorrow through stewardship of our natural resources.
2.6	Develop a community-based action plan to mitigate and adapt to climate change, implementing strategies to use energy efficiently and reduce air and light pollution.
3.1	Ensure design that promotes sustainable communities, limiting sprawl through increased density within existing built boundaries and any new expansion areas, in accordance with Durham Region's Official Plan.
4.5	Strengthen accessibility to appropriate services which respond to the needs of our diverse community, including children, youth and the aging population.
5.1	Increase and strengthen intergovernmental co-operation and partnerships, including the sharing of resources.
5.2	Improve communication between the Region, residents and other levels of government and agencies, increasing awareness of Regional services.
5.3	Preserve Durham's strong fiscal position and administrative excellence.
5.4	Provide an environment that sustains an effective, motivated, healthy workforce.

## PROGRAM SUMMARY



### 2016 Business Plan

### Works - Water Supply System

By Program	2015		2016		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<u>Expense Programs</u>	\$	\$	\$	\$	\$
<b>OPERATIONS:</b>					
1 Watermain Cleaning and Repairs	3,345	3,056	3,056	204	3,260
2 Valves and Hydrants	2,562	2,236	2,236	330	2,566
3 Water Connections	3,843	2,064	2,064	1,836	3,900
4 Water Meters	557	527	527	48	575
5 Depot Operations	4,960	4,675	4,715	731	5,446
Subtotal	<b>15,267</b>	<b>12,558</b>	<b>12,598</b>	<b>3,149</b>	<b>15,747</b>
<b>PLANTS:</b>					
6 Plants East	2,166	2,592	2,596	78	2,674
7 Plants Central	13,093	13,789	13,886	(192)	13,694
8 Plants North	2,463	2,755	2,729	(45)	2,684
9 Sunvalley	-	-	-	-	-
10 Plant Information Systems	-	-	-	-	-
Subtotal	<b>17,722</b>	<b>19,136</b>	<b>19,211</b>	<b>(159)</b>	<b>19,052</b>
<b>COMMON SERVICES:</b>					
11 Engineering and Staff Support	5,659	6,240	6,360	76	6,436
12 Facilities Management	6,197	6,286	6,003	348	6,351
13 Administration	281	281	285	-	285
14 Headquarters Shared Cost	982	982	998	11	1,009
Subtotal	<b>13,119</b>	<b>13,789</b>	<b>13,646</b>	<b>435</b>	<b>14,081</b>
<b>Total Operating Program Expenses</b>	<b>46,108</b>	<b>45,483</b>	<b>45,455</b>	<b>3,425</b>	<b>48,880</b>

## PROGRAM SUMMARY



### 2016 Business Plan

### Works - Water Supply System

By Program	2015		2016		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Tangible Capital Assets:</b>					
1W Facilities Management - New	98	98	-	220	220
2W - Replacement	1,889	1,889	317	363	680
3W Fleet/Equipment - New	541	541	-	182	182
4W - Replacement	832	832	931	13	944
5W Buildings - Replacement	311	311	-	60	60
6W Construction of Municipal Services	29,231	29,231	29,231	2,832	32,063
<b>Tangible Capital Assets Subtotal</b>	<b>32,902</b>	<b>32,902</b>	<b>30,479</b>	<b>3,670</b>	<b>34,149</b>
<b>Tangible Capital Assets Revenue &amp; Recoveries:</b>					
7W Fleet/Equip - Recovery from Reserve/Reserve Fund	-	-	-	(13)	(13)
<b>Tangible Capital Assets Revenue &amp; Recoveries Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(13)</b>	<b>(13)</b>
<b>Net Tangible Capital Assets</b>	<b>32,902</b>	<b>32,902</b>	<b>30,479</b>	<b>3,657</b>	<b>34,136</b>
<b>Net Program Expenses</b>	<b>79,010</b>	<b>78,385</b>	<b>75,934</b>	<b>7,082</b>	<b>83,016</b>
<b>Summary of Increase (Decrease)</b>			<b>(\$2,451)</b>	<b>-3.13%</b>	<b>\$4,631</b>
					<b>5.91%</b>

## PROGRAM SUMMARY



### 2016 Business Plan

### Works - Water Supply System

#### Summary of Base Budget Changes

	\$	Comments
Salaries & Benefits	306	Economic Increase
Salaries & Benefits	173	Annualization (3.306 positions)
Payroll Recovery	226	Facilities Management adjustment to reflect actual planned recoveries
Operating Expenses	465	Inflationary increases in Hydro, Natural Gas, Property Taxes, Insurance, Water & Sewer Services, Snow Removal
Minor Assets & Equipment	(187)	Reduced requirements
Major Repairs & Renovations	(1,011)	Reduced requirements
Tangible Capital Assets	<u>(2,423)</u>	Reduced requirements
	<u><u>(2,451)</u></u>	

## EXPLANATION OF PROGRAM CHANGES



### 2016 Program Changes

### Works - Water Supply System

\$ 000's

#### Maintenance Operations

##### Watermain Cleaning and Repairs

♦ Adjustments to reflect actual costs and forecasted requirements for watermain repairs (\$206k) and hydrant flushes (-\$2k)	204
	204

##### Valves and Hydrants

♦ Adjustments to reflect actual costs and forecasted requirements related to various valves and hydrants activities, including repairing and reconditioning valves (\$108k), hydrant inspections and repairs (\$203k) and valve inspections (\$19k)	330
	330

##### Water Connections

♦ Increases to reflect actual costs and forecasted requirements related to water connection and service box repairs (\$1,916k), partially offset by decreases to service box inspections (-\$77k) and other water connection activities (-\$3k)	1,836
	1,836

##### Water Meters

♦ Adjustments to reflect actual costs and forecasted requirements related to water meter repair and calibration	48
	48

##### Depot Operations

♦ Proposed new position representing 0.444 FTE, to start July 1, 2016:	
♦ One (1) Clerk 3 (Support Clerk) position at the Oshawa/Whitby Depot shared with General Tax and Sanitary Sewerage. This position is required to address public inquiries, payment processing and other office administration duties (Annualized Impact is \$32.3k) (0.444 FTE)	16
♦ Decrease to reflect actual costs and forecasted requirements in various payroll accounts	(17)
♦ Increase in locate services to fulfill legislated requirements related to the Ontario One Call (ON1Call) program. The number of locate requests have significantly increased as a result of this legislation, resulting in increased internal resources required to answer locate requests in the time period specified by the legislation	357
♦ Increase in protective clothing related to arc flash requirements and alignment to historical actuals	5
♦ Increase in maintenance costs to address unanticipated breakdowns and repairs due to aging equipment and infrastructure	10
♦ Increase in small tools for annual minor asset requirements	10
♦ Increase in vehicle fuel costs to reflect actuals and forecasted requirements	16
♦ Adjustments to reflect actual costs and forecasted requirements in various accounts	(15)
♦ Increase to reflect re-distribution of resources across funds based on review of activities, offset by decreases in General Tax and Sanitary Sewerage	349
	731



## EXPLANATION OF PROGRAM CHANGES



### 2016 Program Changes

### Works - Water Supply System

\$ 000's

#### Water Supply Plants

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

<ul style="list-style-type: none"> <li>◆ Proposed new position representing 1.0 FTE, to start July 1, 2016:                             <ul style="list-style-type: none"> <li>◆ District Technician at Bowmanville Water Supply Plant. This position will assist the Plant Superintendent and staff, ensuring compliance with Ministry of the Environment and Climate Change (MOECC) regulations (Annualized impact is \$105.6k) (1.0 FTE)</li> </ul> </li> <li>◆ Decrease in salary costs related to the transfer of a portion of an existing position to Plants Central</li> <li>◆ Increase for maintenance of SCADA communication towers</li> <li>◆ Increase for annual maintenance and small tool items, including the inspection, repair and cleaning of reservoirs, cells and clearwells (\$25k), analyzers, instruments, and chart recorders (\$20k), and electrical upgrades (\$5k)</li> <li>◆ Decrease in fleet usage costs based on review of historical actuals and future requirements</li> <li>◆ Decrease in regulatory compliance audit fees based on historical actuals</li> <li>◆ Increase in Plant Information Systems (PIS) costs based on assignment of resources to the Plants</li> <li>◆ Increase for transfer of costs from Plants Central for generator maintenance at Plants East by diesel mechanic located at Ajax WSP</li> <li>◆ Adjustments to reflect actual costs and forecasted requirements in various accounts</li> <li>◆ Increase in bulk water fees collected based on review of historical actuals</li> </ul>	<p>53</p> <p>(25)</p> <p>16</p> <p>50</p> <p>(47)</p> <p>(13)</p> <p>8</p> <p>50</p> <p>(4)</p> <p>(10)</p> <hr style="border: 1px solid black;"/> <p><b>78</b></p>
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##### Plants Central (Ajax, Oshawa, Whitby)

<ul style="list-style-type: none"> <li>◆ Proposed new position representing 1.0 FTE, to start July 1, 2016:                             <ul style="list-style-type: none"> <li>◆ District Technician at Ajax WSP. This position will assist the Plant Superintendent and staff with ensuring compliance with MOECC regulations (Annualized impact is \$105.6k) (1.0 FTE)</li> </ul> </li> <li>◆ Increase in salary costs related to the transfer of a portion of an existing position from Plants East</li> <li>◆ Decrease in temporary pay based on review of historical actual and future requirements</li> <li>◆ Increase in overtime to reflect actual costs and forecasted requirements in various accounts</li> <li>◆ Increase for maintenance of SCADA communication towers</li> <li>◆ Increase in software licensing due to SCADA upgrades and ESA WorkSafe software implementation</li> <li>◆ Increase in PIS costs based on assignment of resources to the Plants</li> <li>◆ Allocation of diesel mechanic salary costs to other plants and facilities for generator maintenance and inspection</li> <li>◆ Adjustments to reflect actual costs and forecasted requirements in various accounts</li> <li>◆ Increase in bulk water fees collected based on review of historical actuals</li> </ul>	<p>53</p> <p>25</p> <p>(188)</p> <p>18</p> <p>17</p> <p>21</p> <p>13</p> <p>(122)</p> <p>(4)</p> <p>(25)</p> <hr style="border: 1px solid black;"/> <p><b>(192)</b></p>
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## EXPLANATION OF PROGRAM CHANGES



### 2016 Program Changes

### Works - Water Supply System

\$ 000's

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

♦ Decrease for transfer of a Chief SCADA Technologist to Plant Information Systems	(111)
♦ Decrease in temporary pay based on review of historical actuals and future requirements	(63)
♦ Increase for maintenance of SCADA communication towers	17
♦ Increase for annual maintenance and small tool items, including well rehabilitation and maintenance (\$70k), analyzers, instrumentation, and chart recorders (\$30k), valves, actuators, and associated maintenance (\$20k)	120
♦ Decrease in fleet usage costs based on review of historical actuals and future requirements	(11)
♦ Increase in PIS costs based on assignment of resources to the Plants	7
♦ Increase for transfer of costs from Plants Central for generator maintenance at Plants North by diesel mechanic located at Ajax WSP	8
♦ Adjustments to reflect actual costs and forecasted requirements in various accounts	(2)
♦ Increase in bulk water fees collected based on review of historical actuals	(10)
	<b>(45)</b>

#### Plant Information Systems

♦ Proposed new position representing 1.0 FTE, to start July 1, 2016:	
♦ SCADA Technologist (Network Administrator) to maintain, monitor and modify the SCADA network as the system is rolled out to all Water and Wastewater treatment plants in the Region (Annualized impact is \$103.5k)	52
♦ Increase for transfer of a Chief SCADA Technologist from Plants North	111
♦ Removal of part time gapping and shift differential budgets that are no longer required	(74)
♦ Decrease in purchased services due to review of historical actuals and forecasted requirements	(97)
♦ Adjustments to reflect actual costs and forecasted requirements in various accounts	(16)
♦ Allocation of above changes to all Water Supply Plants and Water Pollution Control Plants	24
	<b>-</b>

#### Engineering and Staff Support

♦ Proposed new position representing 0.385 FTE, to start July 1, 2016:	
♦ One (1) Technical Assistant (Records) in Construction to review and organize as-built records submitted for subdivision, municipal and capital projects; and to manage increased workload related to GIS system maintenance. This position is shared with General Tax and Sanitary Sewerage (Annualized impact is \$30.6k) (0.385 FTE)	15
♦ Increase in temporary salary (\$50k) and consulting (\$20k) related to the promotion of Source Water Protection	70
♦ Decrease in allocation to Water Supply resulting from move of one position from Source Water Protection to Engineering, Planning & Studies	(33)
♦ Decrease in membership dues based on review of actuals and forecasted requirements	(12)
♦ Increase in vehicle gas and fleet maintenance based on review of historical actuals	14
♦ Increase in contracted price of water quality consulting agreements	20
♦ Removal of budget in Data System Management for map updates due to completion of work	(61)
♦ Adjustments to reflect actual cost and forecasted requirements in various accounts	8
♦ Increase to reflect re-distribution of resources across funds and within divisions based on review of activities, offset by decreases in General Tax, Sanitary Sewerage, and Solid Waste Management	55
	<b>76</b>

## EXPLANATION OF PROGRAM CHANGES



### 2016 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, 2016:                             <ul style="list-style-type: none"> <li>◆ One (1) Contract Service Coordinator to provide necessary program support for the administration of corporate facility contracts. This position is shared with General Tax, Sanitary Sewerage and Solid Waste Management operations (Annualized impact is \$23.4k) (0.271 FTE)</li> </ul> </li> <li>◆ Increase to reflect actual costs and forecasted requirements in various payroll accounts</li> <li>◆ Increase in software licensing costs for new Asset Management software</li> <li>◆ Increase to provide mobile security patrols at Water Supply Plants</li> <li>◆ Increase in professional fees to fund site master plans at the Ajax, Oshawa, and Sunderland Depots</li> <li>◆ Major repairs and replacement of assets utilized in the provision of services, such as a Construction of a mezzanine at Bowmanville Water Supply Plant</li> <li>◆ Adjustments to various accounts to reflect actual costs and forecasted requirements</li> <li>◆ Increase to reflect re-distribution of resources across funds based on review of activities, offset by decreases in General Tax, Sanitary Sewerage, and Solid Waste Management</li> <li>◆ Increase in recoveries from other municipalities for leased land at the Rosebank Reservoir</li> </ul>	<p>12</p> <p>44</p> <p>17</p> <p>50</p> <p>68</p> <p>73</p> <p>33</p> <p>69</p> <p>(18)</p> <hr style="border: 0.5px solid black;"/> <p><b>348</b></p>
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#### Tangible Capital Assets

<ul style="list-style-type: none"> <li>◆ Share of costs related to the operation and maintenance of the Regional Headquarters</li> </ul>	<p>11</p> <hr style="border: 0.5px solid black;"/> <p><b>11</b></p>
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#### Tangible Capital Assets

<ul style="list-style-type: none"> <li>◆ Program changes include acquisition of new assets, increases in replacement of assets and construction of municipal services, related to depot operations, plant and facilities management, fleet and equipment and construction projects. Refer to capital schedules for detailed information</li> </ul>	<p>3,657</p> <hr style="border: 0.5px solid black;"/>
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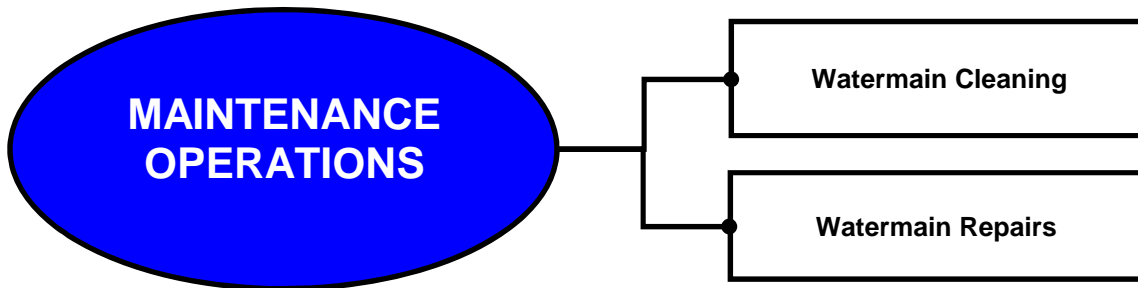
<b>Total Program Changes</b>	<b>7,082</b>
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# PROGRAM 1 WATERMAIN CLEANING AND REPAIRS



## 2016 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 169,123 customers and maintain required water for fire protection

### Description of Program Activities:

- ◆ The Region maintains and operates approximately 2,411 km of watermains
- ◆ Dead-end watermains are flushed regularly as determined by Ministry of the Environment and Climate Change (MOECC) 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 to be 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



## 2016 Program Detail

## Works - Water Supply System

### Performance Measurements:

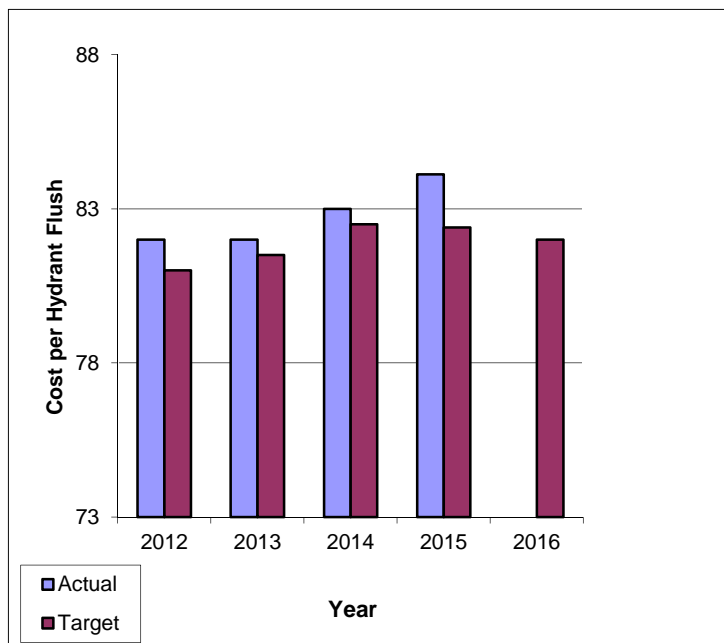
- ◆ All major watermain breaks are isolated and repaired immediately upon detection
- ◆ Where conditions warrant, watermains are cleaned by foam swab method
- ◆ Dead end watermains are to be flushed and tested through an established program
- ◆ Preventative Maintenance Contract for cathodic protection 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 shall be taken and recorded at each designated hydrant at the time of flushing. Hydrant flushing shall be done as required as a result of complaints. Record of problem areas to be maintained for investigation and future cleaning or rehabilitation. Records shall be maintained for all watermain flushing and cleaning

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

- a Flush Hydrants (accomplishments)
- b Repair Watermains (accomplishments)

Target 2015	Proj Actual 2015	Target 2016
5,488	5,100	5,490
203	235	223

### Efficiency:



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

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

**PROGRAM 1  
WATERMAIN CLEANING AND REPAIRS**



**2016 Program Detail**

**Works - Water Supply  
System**

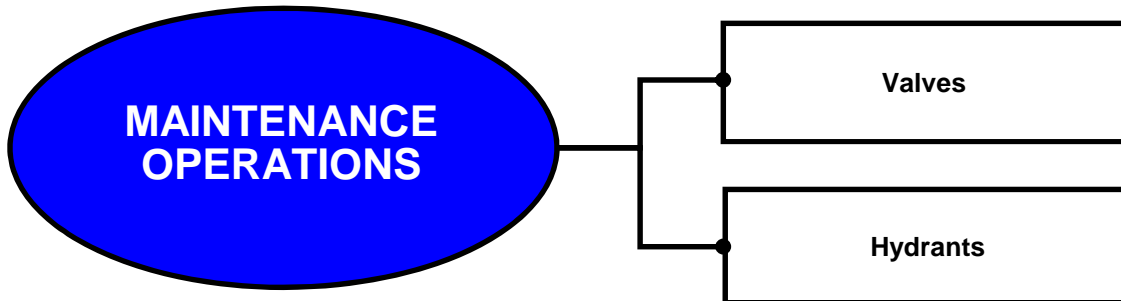
Detailed Cost of Program:	2015		2016		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
Flush at Hydrant - Blowoff	429	452	452	(2)	450
Repair Watermains	2,492	2,070	2,070	206	2,276
Watermain - Leaks, Swabs, Cathodic Protection	424	534	534	-	534
<b>Net Program Expenses</b>	<b>3,345</b>	<b>3,056</b>	<b>3,056</b>	<b>204</b>	<b>3,260</b>

## PROGRAM 2 VALVES AND HYDRANTS



### 2016 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 for approximately 169,123 customers and ensure that all hydrants and valves are in working condition when they are operated.

#### Description of Program Activities:

- ◆ There are 25,615 valves and 15,061 hydrants in the Region
- ◆ Valves 300 mm or larger in size will be operated to ensure proper working conditions
- ◆ Existing valves will be replaced as required
- ◆ Valve boxes will be maintained and repaired as required
- ◆ Valve chambers will be repaired as required
- ◆ Hydrants will be 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



### 2016 Program Detail

### Works - Water Supply System

#### Performance Measurements:

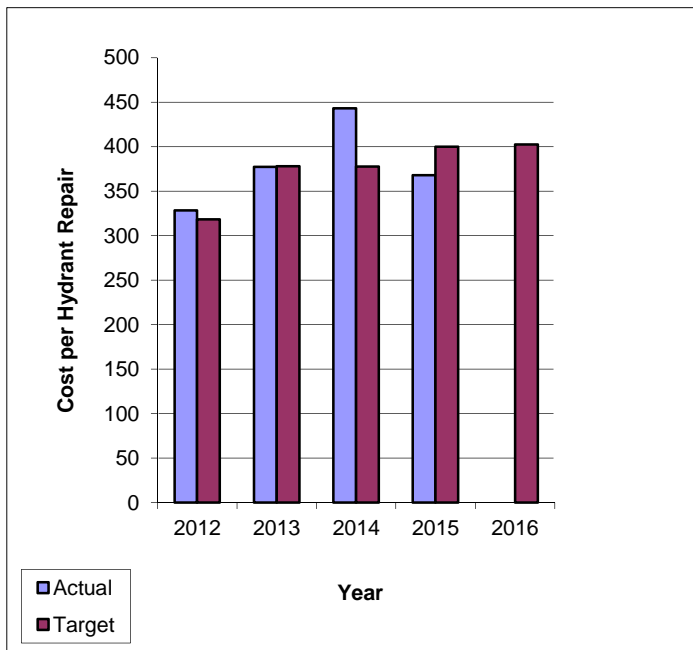
- ◆ All line valves 300 mm in diameter and larger are operated annually
- ◆ All line valves less than 300 mm in diameter are operated every four years
- ◆ All valve chambers to be pumped dry and inspected annually
- ◆ All hydrants to have control valves installed on a program basis
- ◆ All hydrants to 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 2015	Proj Actual 2015	Target 2016
93	84	108
31,770	21,387	31,816
982	1,871	1,550

#### 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.*



**PROGRAM 2  
VALVES AND HYDRANTS**



**2016 Program Detail**

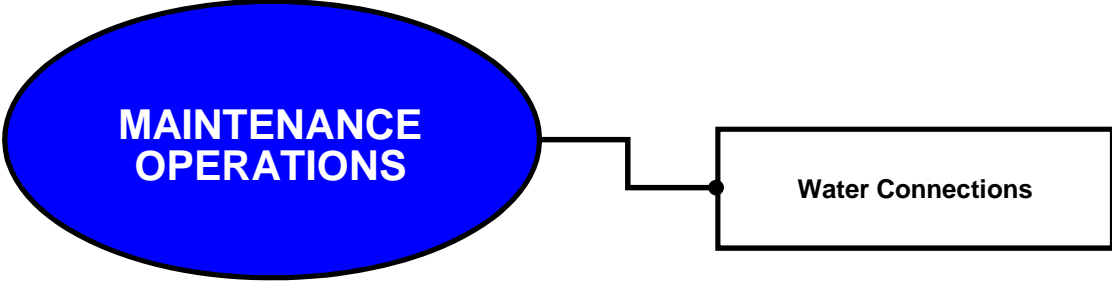
**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
Operation & Inspection	347	335	335	19	354
Repair - Recondition Valves	413	352	352	108	460
Maintain Valve Boxes	304	341	341	-	341
Valve Records - Operations Staff	125	135	135	-	135
Hydrant Inspection & Operation	589	684	684	(49)	635
Hydrant Repair	688	372	372	252	624
Hydrant Painting	88	138	138	-	138
Hydrant Other	100	95	95	-	95
Hydrant Permits	(92)	(216)	(216)	-	(216)
<b>Net Program Expenses</b>	<b>2,562</b>	<b>2,236</b>	<b>2,236</b>	<b>330</b>	<b>2,566</b>



**2016 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 169,123 customers and provide potable water for domestic use and fire protection; prevent damage to private and public property; protect public investment in 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 will be 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.



**2016 Program Detail**

**Works - Water Supply System**

**Performance Measurements:**

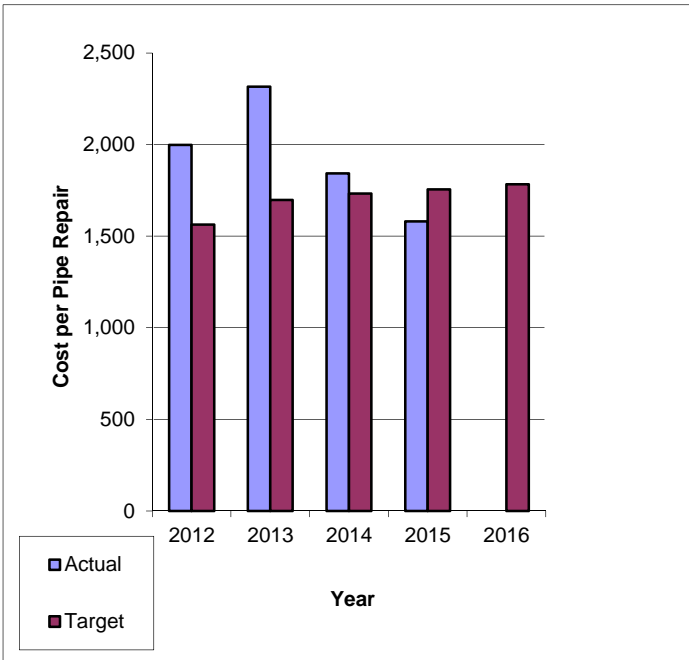
- ◆ All major service connection breaks on street are isolated and repaired upon detection
- ◆ All service valves on water services 100 mm in diameter and larger are operated every four years
- ◆ All curb stops on water services 50 mm in diameter and less are operated/repaired based on customer complaints
- ◆ Polybutylene Service Connections: An extensive 10 year program to replace polybutylene service connections is underway with the goal to have all these connections replaced by 2021

**Units of Service**

a Water Service Connection Repairs

Target 2015	Proj Actual 2015	Target 2016
928	1,660	1,650

**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.*

**PROGRAM 3  
WATER CONNECTIONS**



**2016 Program Detail**

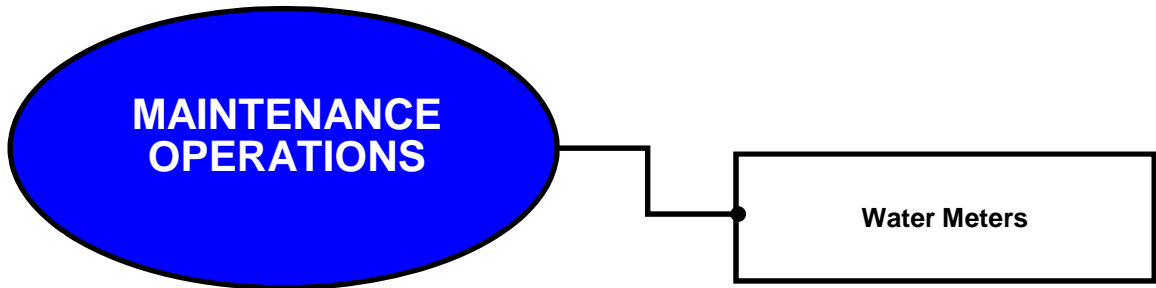
**Works - Water Supply  
System**

Detailed Cost of Program:	2015		2016		
(\$,000's)	Estimated Actuals	Restated Budget	Base Budget	Program Change	Proposed Budget
Flat Rate Install Water	-	1	1	(1)	-
Water Service Repair	2,625	1,610	1,610	1,334	2,944
Inspect Service Boxes	246	441	441	(77)	364
Water Service Box Repair	972	10	10	582	592
Water Service Off-On	-	2	2	(2)	-
<b>Net Program Expenses</b>	<b>3,843</b>	<b>2,064</b>	<b>2,064</b>	<b>1,836</b>	<b>3,900</b>



**2016 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 shall be 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 shall be replaced with a recalibrated meter every 8 years
- ◆ Water meters shall be 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



## 2016 Program Detail

## Works - Water Supply System

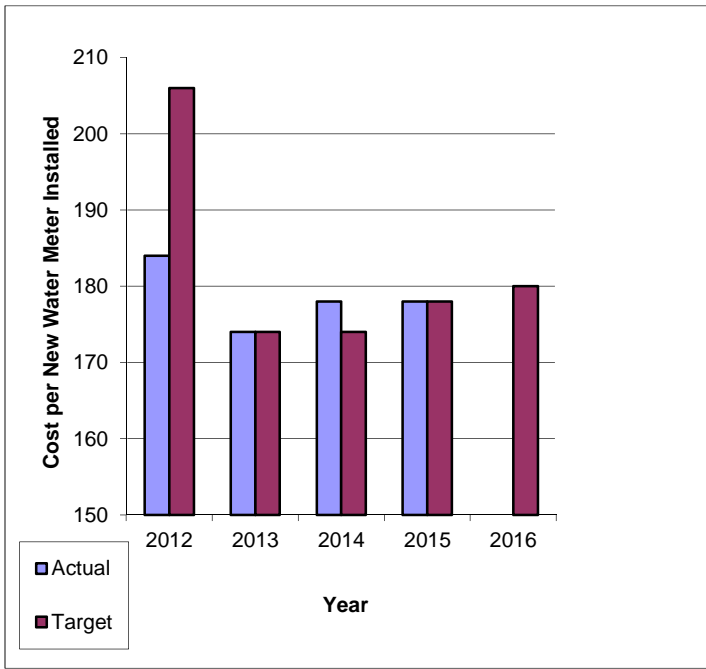
### Units of Service

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

Target 2015	Proj Actual 2015	Target 2016
8,000	5,517	8,000
769	1,316	839

Installation of Water Meters is budgeted under Capital Projects

### Efficiency:



### Cost Per Unit of Service - Installation of New 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**



**2016 Program Detail**

**Works - Water Supply  
System**

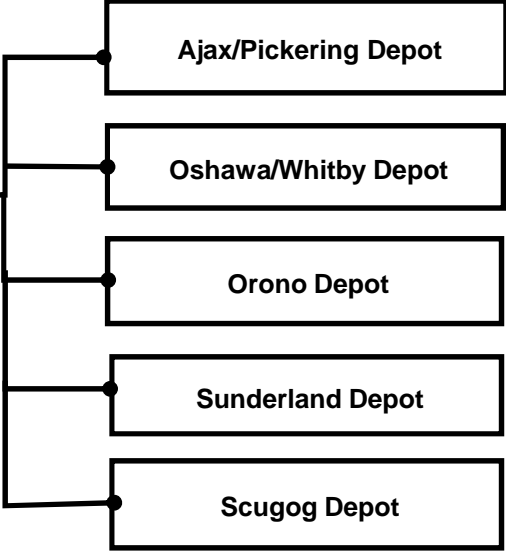
Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
Meter Repair - Calibration	72	70	71	10	81
Large Meter Repair	470	435	435	40	475
Remove Meters	15	20	19	-	19
Meter Shutoff - NonPayment	-	2	2	(2)	-
<b>Net Program Expenses</b>	<b>557</b>	<b>527</b>	<b>527</b>	<b>48</b>	<b>575</b>

**PROGRAM 5  
DEPOT OPERATIONS**



**2016 Program Detail**

**Works - Water Supply System**



**Purpose:**

To provide leadership and direction to the various depots in 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 complete the water activities (i.e. water connections, water meters, watermain cleaning and repairs).
- ◆ Maintain proper inventory records.

**Description of Program Resources:**

- ◆ 2016 Full Time Employees                      15.070
  - ◆ 2015 Full Time Employees                      11.900 (restated)
- 2.726 FTEs redistributed across funds to align work effort across depot activities
- One (1) Clerk 3 (Support Clerk) at the Oshawa Depot to address public inquiries, payment processing and other office administration duties. This position is shared with Sanitary Sewer and General Tax. (0.444 FTE)



**PROGRAM 5  
DEPOT OPERATIONS**



**2016 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	1,388	1,385	1,436	280	1,716
Payroll Maintenance Management	2,434	2,285	2,284	302	2,586
Payroll Recovery Maintenance Management	(6)	(19)	(19)	-	(19)
<b>Net Personnel Expenses</b>	<b>3,816</b>	<b>3,651</b>	<b>3,701</b>	<b>582</b>	<b>4,283</b>
Personnel Related	591	546	546	35	581
Communications	136	158	158	35	193
Supplies	151	139	139	53	192
Materials & Services	16	23	23	(4)	19
Buildings & Grounds Operations	20	50	50	10	60
Equipment Maintenance & Repairs	2	-	-	-	-
Vehicle Operations	456	401	401	76	477
Professional Services	1	1	1	-	1
Leased Facilities Expenses	2	-	-	-	-
Minor Assets & Equipment	13	4	-	-	-
Contribution to Reserve & Reserve Funds	16	16	16	(5)	11
<b>Operating Expenses Subtotal</b>	<b>5,220</b>	<b>4,989</b>	<b>5,035</b>	<b>782</b>	<b>5,817</b>
<b>Transfers from Related Entities</b>					
NextGen Charges	20	13	13	(3)	10
<b>Transfers from Related Entities Subtotal</b>	<b>20</b>	<b>13</b>	<b>13</b>	<b>(3)</b>	<b>10</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Recovery from Fleet	(171)	(172)	(178)	(48)	(226)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(171)</b>	<b>(172)</b>	<b>(178)</b>	<b>(48)</b>	<b>(226)</b>
<b>Gross Operating Expenses</b>	<b>5,069</b>	<b>4,830</b>	<b>4,870</b>	<b>731</b>	<b>5,601</b>

**PROGRAM 5  
DEPOT OPERATIONS**



**2016 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Restated Budget	Base Budget	Program Change	Proposed Budget
<b>Tangible Capital Assets</b>					
New	50	50	-	-	-
Replacement	27	27	-	-	-
<b>Total Tangible Capital Assets</b>	<b>77</b>	<b>77</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total Expenses</b>	<b>5,146</b>	<b>4,907</b>	<b>4,870</b>	<b>731</b>	<b>5,601</b>
<b>Revenues</b>					
Fees & Service Charges	(100)	(155)	(155)	-	(155)
Sundry Revenue	(9)	-	-	-	-
<b>Total Revenues</b>	<b>(109)</b>	<b>(155)</b>	<b>(155)</b>	<b>-</b>	<b>(155)</b>
<b>Net Program Expenses</b>	<b>5,037</b>	<b>4,752</b>	<b>4,715</b>	<b>731</b>	<b>5,446</b>

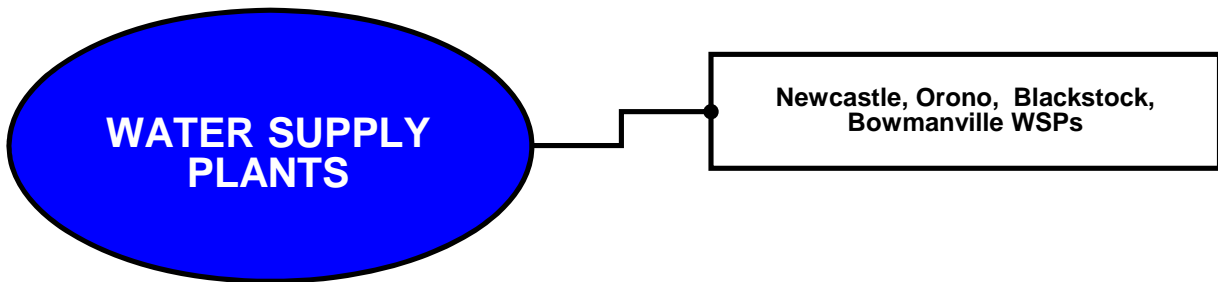
\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	5,601
Less: Revenues Per Above	(155)
Net Operating Program Expenses Per Program Summary	<u>5,446</u>
Add: Tangible Capital Assets	-
Net Program Expenses Per Above	<u><u>5,446</u></u>



**2016 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, 5 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 and Climate Change (MOECC) Acts and Regulations
- ◆ Participate in the construction of facilities within the service area

**Description of Program Resources:**

- ◆ 2016 Full Time Employees            9.330
- ◆ 2015 Full Time Employees            8.670            (restated)

One (1) District Technician at Bowmanville WSP. This position will assist the Plant Superintendent and staff with ensuring compliance with MOECC regulations. The Water Plants are inspected and audited annually by both MOECC inspectors and external auditors and any deviations from existing regulations could lead to charges under the Safe Drinking Water Act. The technician would be responsible for ensuring the Plants conform to all existing regulations and that the Plants make any necessary changes as required by new or updated regulations (1.00 FTE)

One (1) Clerk 3 moved to Plants Central (-0.340 FTE)



**2016 Program Detail**

**Works - Water Supply System**

**Performance Measurements:**

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

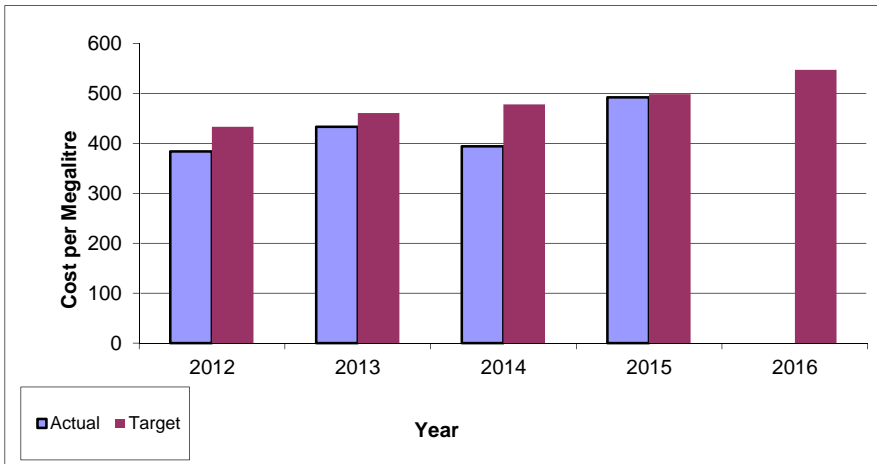
**Units of Service**

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

Target 2015	Proj Actual 2015	Target 2016
5,000	4,800	5,000
320	306	320
0	0	0

**Efficiency:**

**Cost per Megalitre of Treated Water**



**PROGRAM 6  
PLANTS EAST**



**2016 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	1,024	1,137	1,152	28	1,180
Personnel Related	14	41	40	(7)	33
Communications	89	103	104	16	120
Supplies	139	158	158	-	158
Utilities	508	517	553	-	553
Chemicals	57	71	71	-	71
Computer Maintenance & Operations	19	13	13	3	16
Materials & Services	14	17	17	-	17
Equipment Maintenance & Repairs	46	75	75	50	125
Vehicle Operations	66	68	68	(47)	21
Professional Services	21	51	51	(13)	38
Minor Assets & Equipment	37	32	-	-	-
Major Repairs & Renovations	26	55	30	-	30
<b>Operating Expenses Subtotal</b>	<b>2,060</b>	<b>2,338</b>	<b>2,332</b>	<b>30</b>	<b>2,362</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-PIS Group Charge	21	158	167	8	175
Works-Regional Environmental Lab Charge	102	132	132	-	132
Works-Ajax WSP-Labour Charge	44	-	-	50	50
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>167</b>	<b>290</b>	<b>299</b>	<b>58</b>	<b>357</b>
<b>Gross Operating Expenses</b>	<b>2,227</b>	<b>2,628</b>	<b>2,631</b>	<b>88</b>	<b>2,719</b>
<b>Tangible Capital Assets</b>					
New	145	145	-	15	15
Replacement	120	120	75	-	75
<b>Total Tangible Capital Assets</b>	<b>265</b>	<b>265</b>	<b>75</b>	<b>15</b>	<b>90</b>
<b>Total Expenses</b>	<b>2,492</b>	<b>2,893</b>	<b>2,706</b>	<b>103</b>	<b>2,809</b>

**PROGRAM 6  
PLANTS EAST**



**2016 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Revenues</b>					
Fees & Service Charges	(61)	(36)	(35)	(10)	(45)
<b>Total Revenues</b>	<b>(61)</b>	<b>(36)</b>	<b>(35)</b>	<b>(10)</b>	<b>(45)</b>
<b>Net Program Expenses</b>	<b>2,431</b>	<b>2,857</b>	<b>2,671</b>	<b>93</b>	<b>2,764</b>

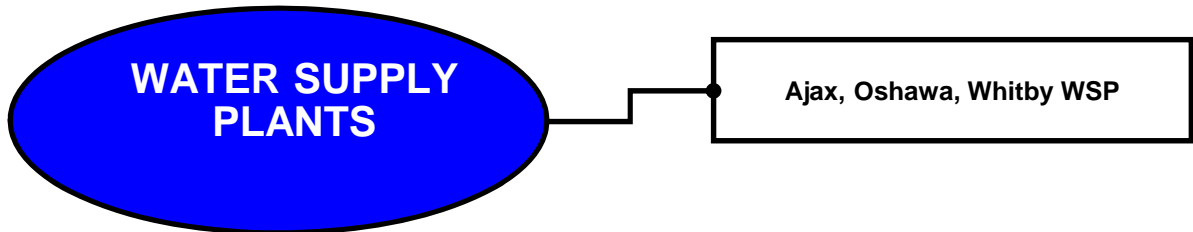
\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	2,719
Less: Revenues Per Above	(45)
Net Operating Program Expenses Per Program Summary	2,674
Add: Tangible Capital Assets	90
Net Program Expenses Per Above	2,764



**2016 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, 11 remote water pumping stations and 10 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 and Climate Change (MOECC) Acts and Regulations
- ◆ Participate in the construction of facilities within the service area
- ◆ Maintain standby diesel equipment in water/wastewater plants, pumping stations, Homes for the Aged, Regional Headquarters and Paramedic Response stations
- ◆ Maintain and expand SCADA systems throughout water/wastewater plants, stations and storage facilities

**Description of Program Resources:**

- ◆ 2016 Full Time Employees            45.930
- ◆ 2015 Full Time Employees            44.590            (restated)

One (1) District Technician at Ajax WSP. This position will assist the Plant Superintendent and staff with ensuring compliance with MOECC regulations. The Water Plants are inspected and audited annually by both MOECC inspectors and external auditors and any deviations from existing regulations could lead to charges under the Safe Drinking Water Act. The technician would be responsible for ensuring the Plants conform to all existing regulations and that the Plants make any necessary changes as required by new or updated regulations (1.00 FTE)

One (1) Clerk 3 transferred from Plants East (0.340 FTE)



**2016 Program Detail**

**Works - Water Supply System**

**Performance Measurements:**

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

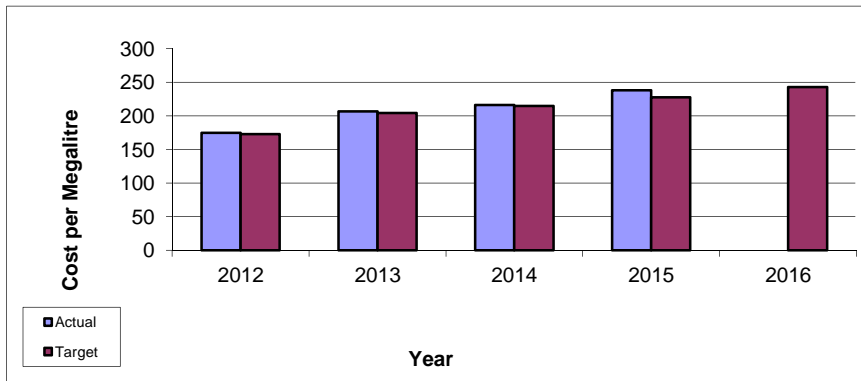
**Units of Service**

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

Target 2015	Proj Actual 2015	Target 2016
59,000	56,000	59,000
350	127	200
0	0	0

**Efficiency:**

**Cost per Megalitre of Treated Water**





**PROGRAM 7  
PLANTS CENTRAL**



**2016 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	4,646	4,968	5,066	(82)	4,984
Payroll Maintenance Management - Charge	-	2	1	-	1
<b>Net Personnel Expenses</b>	<b>4,646</b>	<b>4,970</b>	<b>5,067</b>	<b>(82)</b>	<b>4,985</b>
Personnel Related	99	130	130	(12)	118
Communications	209	265	265	17	282
Supplies	841	807	808	4	812
Utilities	4,887	4,769	5,132	-	5,132
Chemicals	721	927	927	(1)	926
Computer Maintenance & Operations	132	119	119	21	140
Materials & Services	34	123	123	(6)	117
Equipment Maintenance & Repairs	422	345	345	-	345
Vehicle Operations	447	456	456	3	459
Professional Services	68	77	77	(2)	75
Minor Assets & Equipment	60	60	-	-	-
Major Repairs & Renovations	350	350	30	-	30
<b>Operating Expenses Subtotal</b>	<b>12,916</b>	<b>13,398</b>	<b>13,479</b>	<b>(58)</b>	<b>13,421</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-PIS Group Charge	263	263	279	13	292
Works-Regional Environmental Lab Charge	167	190	190	-	190
Recovery Works-Ajax WSP- Labour	(87)	-	-	(122)	(122)
Recovery - Sunvalley	(22)	(22)	(22)	-	(22)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>321</b>	<b>431</b>	<b>447</b>	<b>(109)</b>	<b>338</b>
<b>Gross Operating Expenses</b>	<b>13,237</b>	<b>13,829</b>	<b>13,926</b>	<b>(167)</b>	<b>13,759</b>

**PROGRAM 7  
PLANTS CENTRAL**



**2016 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Proposed Budget</b>
<b>Tangible Capital Assets</b>					
New	150	150	-	35	35
Replacement	570	570	640	-	640
<b>Total Tangible Capital Assets</b>	<b>720</b>	<b>720</b>	<b>640</b>	<b>35</b>	<b>675</b>
<b>Total Expenses</b>	<b>13,957</b>	<b>14,549</b>	<b>14,566</b>	<b>(132)</b>	<b>14,434</b>
<b>Revenues</b>					
Fees & Service Charges	(82)	(25)	(25)	(25)	(50)
Sundry Revenue	(62)	(15)	(15)	-	(15)
<b>Total Revenues</b>	<b>(144)</b>	<b>(40)</b>	<b>(40)</b>	<b>(25)</b>	<b>(65)</b>
<b>Net Program Expenses</b>	<b>13,813</b>	<b>14,509</b>	<b>14,526</b>	<b>(157)</b>	<b>14,369</b>

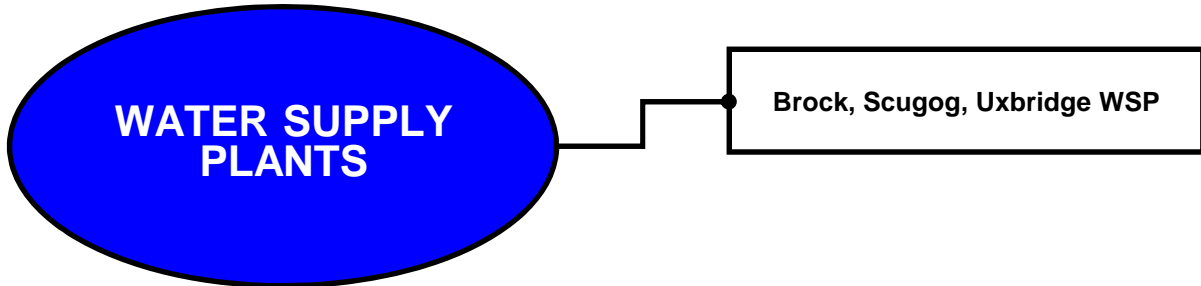
\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	13,759
Less: Revenues Per Above	(65)
Net Operating Program Expenses Per Program Summary	<u>13,694</u>
Add: Tangible Capital Assets	675
Net Program Expenses Per Above	<u><u>14,369</u></u>



**2016 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 and Climate Change (MOECC) Acts and Regulations
- ◆ Participate in the construction of facilities within the service area

**Description of Program Resources:**

- ◆ 2016 Full Time Employees            8.830
- ◆ 2015 Full Time Employees            9.830

Transfer of one (1) Chief SCADA Technologist to Plant Information Systems (-1.00 FTE)

**Performance Measurements:**

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



**2016 Program Detail**

**Works - Water Supply System**

**Performance Measurements: (continued)**

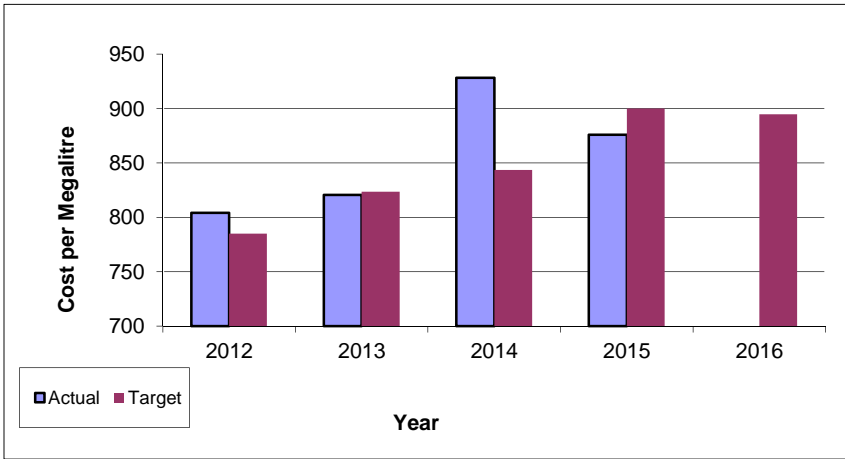
**Units of Service**

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

Target 2015	Proj Actual 2015	Target 2016
3,000	2,700	3,000
305	341	320
0	0	0

**Efficiency:**

**Cost per Megalitre of Treated Water**



**PROGRAM 8  
PLANTS NORTH**



**2016 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	1,047	1,178	1,195	(174)	1,021
Personnel Related	21	40	40	3	43
Communications	99	110	110	7	117
Supplies	286	191	191	-	191
Utilities	376	390	458	-	458
Chemicals	112	126	126	-	126
Computer Maintenance & Operations	25	5	5	5	10
Materials & Services	18	27	26	-	26
Equipment Maintenance & Repairs	31	51	51	120	171
Vehicle Operations	139	148	148	(11)	137
Professional Services	9	25	25	-	25
Minor Assets & Equipment	70	70	-	-	-
Major Repairs & Renovations	50	50	-	-	-
<b>Operating Expenses Subtotal</b>	<b>2,283</b>	<b>2,411</b>	<b>2,375</b>	<b>(50)</b>	<b>2,325</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-PIS Group Charge	30	140	149	7	156
Works-Regional Environmental Lab Charge	203	270	270	-	270
Works-Ajax WSP-Labour Charge	6	-	-	8	8
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>239</b>	<b>410</b>	<b>419</b>	<b>15</b>	<b>434</b>
<b>Gross Operating Expenses</b>	<b>2,522</b>	<b>2,821</b>	<b>2,794</b>	<b>(35)</b>	<b>2,759</b>
<b>Tangible Capital Assets</b>					
New	-	-	-	15	15
Replacement	30	30	110	-	110
<b>Total Tangible Capital Assets</b>	<b>30</b>	<b>30</b>	<b>110</b>	<b>15</b>	<b>125</b>
<b>Total Expenses</b>	<b>2,552</b>	<b>2,851</b>	<b>2,904</b>	<b>(20)</b>	<b>2,884</b>

**PROGRAM 8  
PLANTS NORTH**



**2016 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Revenues</b>					
Fees & Service Charges	(59)	(66)	(65)	(10)	(75)
<b>Total Revenues</b>	<b>(59)</b>	<b>(66)</b>	<b>(65)</b>	<b>(10)</b>	<b>(75)</b>
<b>Net Program Expenses</b>	<b>2,493</b>	<b>2,785</b>	<b>2,839</b>	<b>(30)</b>	<b>2,809</b>

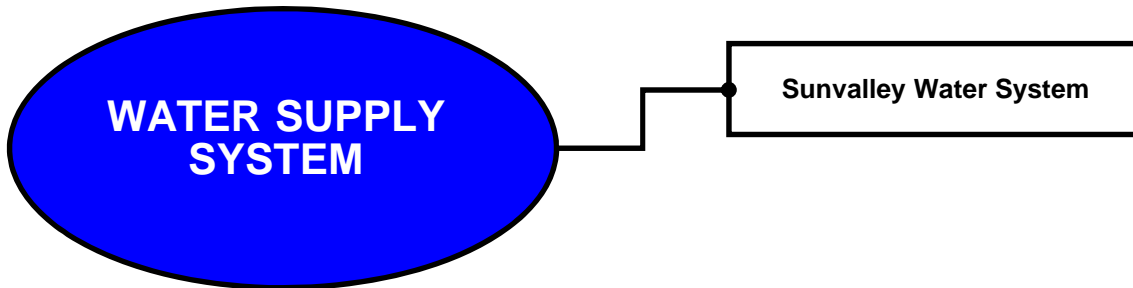
\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	2,759
Less: Revenues Per Above	(75)
Net Operating Program Expenses Per Program Summary	2,684
Add: Tangible Capital Assets	125
Net Program Expenses Per Above	<u>2,809</u>



**2016 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 and Climate Change (MOECC)
- ◆ 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 customer complaints
- ◆ Cost per megalitre of water supplied
- ◆ Number of emergency callouts
- ◆ Number of boil water advisories issued annually

**Units of Service**

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

Target 2015	Proj Actual 2015	Target 2016
5	2	4
0	1	0



**2016 Program Detail**

**Works - Water Supply  
System**

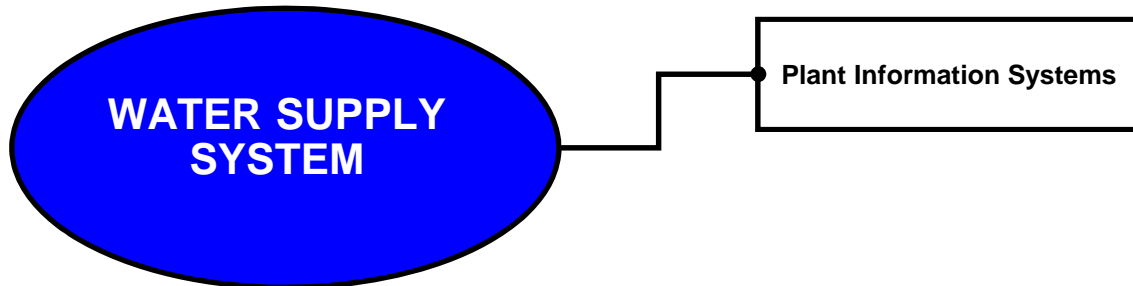
Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Supplies	2	2	2	-	2
Materials & Services	1	1	1	-	1
Minor Assets & Equipment	2	2	2	-	2
<b>Operating Expenses Subtotal</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>-</b>	<b>5</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Ajax Water Supply Plant Charge	22	22	22	-	22
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>22</b>	<b>22</b>	<b>22</b>	<b>-</b>	<b>22</b>
<b>Gross Operating Expenses</b>	<b>27</b>	<b>27</b>	<b>27</b>	<b>-</b>	<b>27</b>
<b>Tangible Capital Assets</b>					
Replacement	-	-	-	13	13
Capital Fund Contribution	-	-	-	(13)	(13)
<b>Total Tangible Capital Assets</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total Expenses</b>	<b>27</b>	<b>27</b>	<b>27</b>	<b>-</b>	<b>27</b>
<b>Revenues</b>					
Fees & Service Charges	(27)	(27)	(27)	-	(27)
<b>Total Revenues</b>	<b>(27)</b>	<b>(27)</b>	<b>(27)</b>	<b>-</b>	<b>(27)</b>
<b>Net Program Expenses</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>





**2016 Program Detail**

**Works - Water Supply System**



**Purpose:**

- ◆ Centralized Plant Information Systems group located at the Oshawa Water Supply Plant
- ◆ Coordinate and plan maintenance and upgrades to 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
- ◆ Available 24/7
- ◆ 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



**2016 Program Detail**

**Works - Water Supply  
System**

**Description of Program Resources:**

- ◆ 2016 Full Time Employees            13.660
- ◆ 2015 Full Time Employees            11.660            (Restated)

One (1) SCADA Technologist (Network Administrator). This position will maintain, monitor and modify the SCADA network as the complex system is rolled out to all Water and Wastewater treatment plants in the Region. The viability of the SCADA network is essential in ensuring there continues to be a safe quantity and quality of drinking water and wastewater effluent across the Region (1.00 FTE)

One (1) Chief SCADA Technologist transferred from Plants North (1.00 FTE)

**PROGRAM 10  
PLANT INFORMATION SYSTEMS**



**2016 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	1,210	1,310	1,378	97	1,475
Personnel Related	151	144	144	(12)	132
Communications	3	6	7	3	10
Supplies	20	45	45	(3)	42
Computer Maintenance & Operations	-	-	-	9	9
Materials & Services	19	153	153	(103)	50
Equipment Maintenance & Repairs	31	41	41	(15)	26
Professional Services	2	53	53	-	53
<b>Operating Expenses Subtotal</b>	<b>1,436</b>	<b>1,752</b>	<b>1,821</b>	<b>(24)</b>	<b>1,797</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Plant Information Systems Recovery	(1,436)	(1,752)	(1,821)	24	(1,797)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(1,436)</b>	<b>(1,752)</b>	<b>(1,821)</b>	<b>24</b>	<b>(1,797)</b>
<b>Gross Operating Expenses</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Tangible Capital Assets</b>					
New	122	122	-	28	28
Replacement	-	-	40	-	40
<b>Total Tangible Capital Assets</b>	<b>122</b>	<b>122</b>	<b>40</b>	<b>28</b>	<b>68</b>
<b>Net Program Expenses</b>	<b>122</b>	<b>122</b>	<b>40</b>	<b>28</b>	<b>68</b>

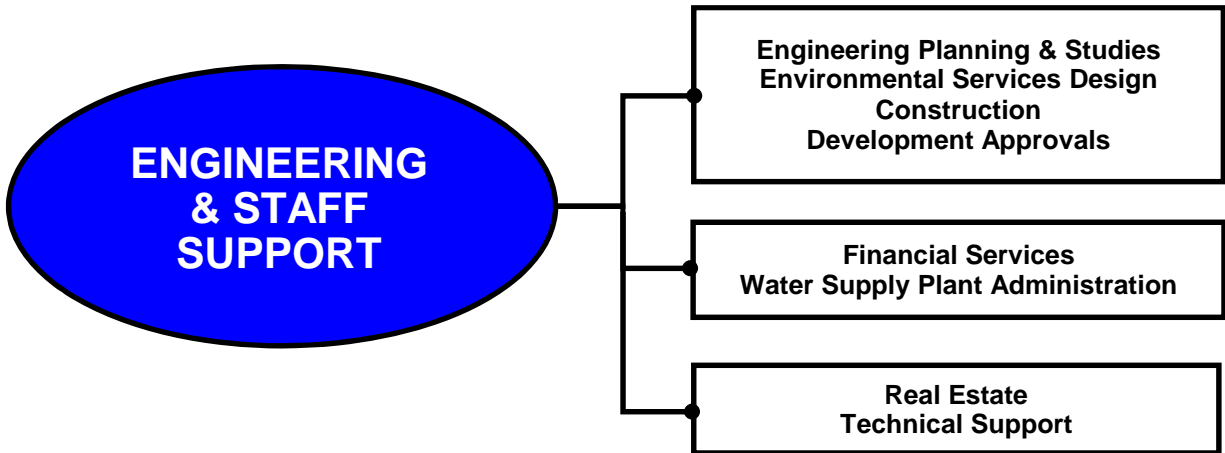
Gross Operating Expenses Per Above	-
Less: Revenues Per Above	-
Net Operating Program Expenses Per Program Summary	-
Add: Tangible Capital Assets	68
Net Program Expenses Per Above	<u>68</u>

# PROGRAM 11 ENGINEERING AND STAFF SUPPORT



## 2016 Program Detail

## Works - Water Supply System



### Purpose:

- ◆ Represents the portions of various divisions of the Works Department operation 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

- ◆ 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 within the Works department to ensure compliance with approved budgets and policy guidelines.



**2016 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.

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.



**2016 Program Detail**

**Works - Water Supply  
System**

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

Construction

- ◆ 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, 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.



2016 Program Detail

Works - Water Supply System

Description of Program Activities: (continued)

Water Supply 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 Supply Plant facilities.
- ◆ Liaise with government, public and private agencies.

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 (including Landfill Monitoring):*

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

◆ *Water and Energy Efficiency Programs:*

The Water Efficiency Program will focus on the quantification stage of the Water and Energy Efficient Community project in Ajax and continue the Rain Gauge Distribution project.

The Energy Management Group 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.



**2016 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:**

- ◆ 2016 Full Time Employees           69.163
  - ◆ 2015 Full Time Employees           70.343           (restated)
- 1.565 FTEs redistributed across funds to align with work effort across divisions

One (1) Technical Assistant in Construction to review and organize as-built records submitted for subdivision, municipal and capital projects; and to manage increased workload related to GIS system maintenance, shared with Sanitary Sewer and General Tax (0.385 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**



**2016 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	7,138	7,617	7,778	107	7,885
Payroll Maintenance Management - Charge	1	-	2	(2)	-
Payroll Maintenance Management - Recovery	(3,153)	(3,414)	(3,521)	(50)	(3,571)
<b>Net Personnel Expenses</b>	<b>3,986</b>	<b>4,203</b>	<b>4,259</b>	<b>55</b>	<b>4,314</b>
Personnel Related	235	290	291	(9)	282
Communications	83	114	115	16	131
Supplies	61	77	77	17	94
Computer Maintenance & Operations	151	138	138	2	140
Materials & Services	282	351	352	(65)	287
Equipment Maintenance & Repairs	79	231	231	2	233
Vehicle Operations	14	11	11	18	29
Professional Services	538	737	737	13	750
Minor Assets & Equipment	9	9	-	-	-
Major Repairs & Renovations	-	1	-	-	-
Contribution to Reserve & Reserve Funds	-	1	1	6	7
<b>Operating Expenses Subtotal</b>	<b>5,438</b>	<b>6,163</b>	<b>6,212</b>	<b>55</b>	<b>6,267</b>

**PROGRAM 11  
ENGINEERING AND STAFF SUPPORT**



**2016 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program:	2015		2016		
(\$,000's)	Estimated Actuals	Restated Budget	Base Budget	Program Change	Proposed Budget
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Corporate Communications Charge	125	126	126	-	126
Corporate IT Charge	216	216	216	-	216
Corporate HR Charge	85	85	85	-	85
Health Charge	55	55	55	-	55
Works-Regional Environmental Lab Charge	130	130	130	-	130
Recovery - Works-General Tax	(27)	(26)	(28)	18	(10)
Recovery - Regional Environmental Lab	(35)	(54)	(54)	18	(36)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>549</b>	<b>532</b>	<b>530</b>	<b>36</b>	<b>566</b>
<b>Gross Operating Expenses</b>	<b>5,987</b>	<b>6,695</b>	<b>6,742</b>	<b>91</b>	<b>6,833</b>
<b>Tangible Capital Assets</b>					
New	74	74	-	90	90
Replacement	86	86	66	-	66
<b>Total Tangible Capital Assets</b>	<b>160</b>	<b>160</b>	<b>66</b>	<b>90</b>	<b>156</b>
<b>Total Expenses</b>	<b>6,147</b>	<b>6,855</b>	<b>6,808</b>	<b>181</b>	<b>6,989</b>
<b>Revenues</b>					
Fees & Service Charges	(180)	(204)	(204)	(15)	(219)
Sale of Publications	(9)	(11)	(12)	-	(12)
Sundry Revenue	(139)	(240)	(166)	-	(166)
<b>Total Revenues</b>	<b>(328)</b>	<b>(455)</b>	<b>(382)</b>	<b>(15)</b>	<b>(397)</b>
<b>Net Program Expenses</b>	<b>5,819</b>	<b>6,400</b>	<b>6,426</b>	<b>166</b>	<b>6,592</b>

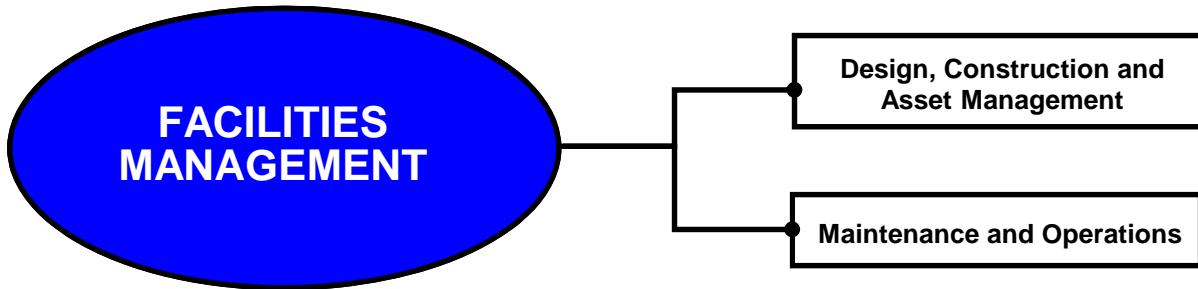
\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	6,833
Less: Revenues Per Above	(397)
Net Operating Program Expenses Per Program Summary	6,436
Add: Tangible Capital Assets	156
Net Program Expenses Per Above	6,592



**2016 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 212 facilities with an estimated total area of 473,805 square metres (5.1 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.

**Facility Design, Construction and Asset Management Services**

- ◆ The Design, Construction & 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, Homes for the Aged and Durham Regional Police Service. The Facilities 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. Design, Construction & 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.



**2016 Program Detail**

**Works - Water Supply  
System**

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

- ◆ 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 Renovation; Furniture Management.

**Facility 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.

**Security Services**

- ◆ In addition to the Region's 212 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:**

- ◆ 2016 Full Time Employees      18.750
  - ◆ 2015 Full Time Employees      19.695                      (Restated)
- 1.216 FTEs redistributed across funds to align work effort across Divisions

One (1) Contract Service Coordinator to provide necessary program support for the administration of corporate facility contracts. This position is shared with General Tax, Sanitary Sewerage and Solid Waste Management operations. (0.271 FTE)

**Performance Measurements:**

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

**PROGRAM 12  
FACILITIES MANAGEMENT**



**2016 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	1,922	2,058	2,123	(73)	2,050
Payroll Recovery Maintenance Management	(509)	(931)	(704)	80	(624)
<b>Net Payroll Expenses</b>	<b>1,413</b>	<b>1,127</b>	<b>1,419</b>	<b>7</b>	<b>1,426</b>
Personnel Related	50	69	69	(3)	66
Communications	17	35	34	(2)	32
Supplies	45	47	47	-	47
Utilities	97	104	121	33	154
Computer Maintenance & Operations	6	7	7	17	24
Materials & Services	92	123	123	(40)	83
Buildings & Grounds Operations	994	1,009	1,038	54	1,092
Equipment Maintenance & Repairs	81	76	93	10	103
Vehicle Operations	47	-	-	41	41
Professional Services	1	8	8	68	76
Contracted Services	175	153	155	70	225
Financial Expenses	744	744	759	11	770
Property Taxes	1,343	1,418	1,392	-	1,392
Minor Assets & Equipment	7	13	-	-	-
Major Repairs & Renovations	605	737	122	73	195
<b>Operating Expenses Subtotal</b>	<b>5,717</b>	<b>5,670</b>	<b>5,387</b>	<b>339</b>	<b>5,726</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-General Tax Charge	21	21	21	(1)	20
Works-Facilities Management Charge	478	595	595	28	623
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>499</b>	<b>616</b>	<b>616</b>	<b>27</b>	<b>643</b>
<b>Gross Operating Expenses</b>	<b>6,216</b>	<b>6,286</b>	<b>6,003</b>	<b>366</b>	<b>6,369</b>

**PROGRAM 12  
FACILITIES MANAGEMENT**



**2016 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Tangible Capital Assets</b>					
New	98	98	-	220	220
Replacement	2,200	2,200	317	423	740
<b>Total Tangible Capital Assets</b>	<b>2,298</b>	<b>2,298</b>	<b>317</b>	<b>643</b>	<b>960</b>
<b>Total Expenses</b>	<b>8,514</b>	<b>8,584</b>	<b>6,320</b>	<b>1,009</b>	<b>7,329</b>
<b>Revenues</b>					
Sundry Revenue	(1)	-	-	-	-
Revenue from Municipalities	(18)	-	-	(18)	(18)
<b>Total Revenues</b>	<b>(19)</b>	<b>-</b>	<b>-</b>	<b>(18)</b>	<b>(18)</b>
<b>Net Program Expenses</b>	<b>8,495</b>	<b>8,584</b>	<b>6,320</b>	<b>991</b>	<b>7,311</b>

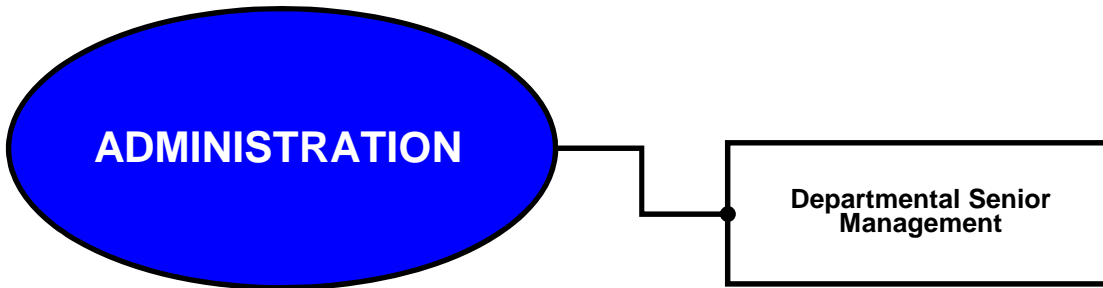
\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	6,369
Less: Revenues Per Above	(18)
Net Operating Program Expenses Per Program Summary	<u>6,351</u>
Add: Tangible Capital Assets	960
Net Program Expenses Per Above	<u><u>7,311</u></u>



**2016 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, 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, Real Estate and 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 and other Joint Standing Committee reports for presentation to Regional Council related to Water Supply System

**Description of Program Resources:**

- ◆ 2016 Full Time Employees 1.600
- ◆ 2015 Full Time Employees 1.600

**PROGRAM 13  
ADMINISTRATION**



**2016 Program Detail**

**Works - Water Supply  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	274	274	277	-	277
Personnel Related	7	7	8	-	8
<b>Net Program Expenses</b>	<b>281</b>	<b>281</b>	<b>285</b>	<b>-</b>	<b>285</b>



**PROGRAM 14  
HEADQUARTERS SHARED COST**



**2016 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	919	1,021	1,036	5	1,041
Communications	441	460	460	40	500
Supplies	119	139	139	-	139
Utilities	1,267	1,161	1,276	(13)	1,263
Computer Maintenance & Operations	16	11	11	-	11
Materials & Services	21	30	30	(3)	27
Buildings & Grounds Operations	931	1,010	1,010	13	1,023
Equipment Maintenance & Repairs	14	12	12	-	12
Professional Services	35	55	-	20	20
Contracted Services	722	730	746	(26)	720
Financial Expenses	166	166	169	-	169
Major Repairs & Renovations	195	293	-	100	100
Contribution to Reserve & Reserve Funds	748	748	748	(748)	-
Call Centre Operations	435	497	501	-	501
Front Counter Operations	298	327	322	-	322
<b>Operating Expenses Subtotal</b>	<b>6,327</b>	<b>6,660</b>	<b>6,460</b>	<b>(612)</b>	<b>5,848</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Facilities Management & Shipping/Receiving Charge	375	375	380	(8)	372
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>375</b>	<b>375</b>	<b>380</b>	<b>(8)</b>	<b>372</b>
<b>Gross Operating Expenses</b>	<b>6,702</b>	<b>7,035</b>	<b>6,840</b>	<b>(620)</b>	<b>6,220</b>
<b>Tangible Capital Assets</b>					
Replacement	145	145	530	760	1,290
<b>Total Tangible Capital Assets</b>	<b>145</b>	<b>145</b>	<b>530</b>	<b>760</b>	<b>1,290</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 14  
HEADQUARTERS SHARED COST**



**2016 Program Detail**

**Works - Water Supply  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Proposed Budget</b>
<b>Revenues</b>					
Rents	-	-	-	(6)	(6)
<b>Total Revenues</b>	-	-	-	(6)	(6)
<b>Net Program Expenses</b>	<b>11,441</b>	<b>11,774</b>	<b>11,964</b>	<b>134</b>	<b>12,098</b>
<b>Department's Share of Net Program Expenses</b>	<b>982</b>	<b>982</b>	<b>998</b>	<b>11</b>	<b>1,009</b>

# TANGIBLE CAPITAL ASSETS PROGRAM SUMMARY



## 2016 Business Plan

## Works - Water Supply System

By Program	2015		2016		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Tangible Capital Assets:</b>	\$	\$	\$	\$	\$
1W Facilities Management - New	98	98	-	220	220
2W - Replacement	1,889	1,889	317	363	680
3W Fleet/Equipment - New	541	541	-	182	182
4W - Replacement	832	832	931	13	944
5W Buildings - Replacement	311	311	-	60	60
6W Construction of Municipal Services	29,231	29,231	29,231	2,832	32,063
<b>Tangible Capital Assets Subtotal</b>	<b>32,902</b>	<b>32,902</b>	<b>30,479</b>	<b>3,670</b>	<b>34,149</b>
<b>Tangible Capital Assets Revenue &amp; Recoveries:</b>					
7W Fleet/Equip - Recovery from Reserve/Reserve Fund	-	-	-	(13)	(13)
<b>Tangible Capital Assets Revenue &amp; Recoveries Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(13)</b>	<b>(13)</b>
<b>Net Tangible Capital Assets Program Expenses</b>	<b>32,902</b>	<b>32,902</b>	<b>30,479</b>	<b>3,657</b>	<b>34,136</b>
<b>Summary of Increase (Decrease)</b>			(\$2,423)		\$1,234
			-7.36%		3.75%



**2016 Business Plan**

**Works - Water Supply Systems  
Tangible Capital Assets - New**

Program Detail Page	Location	Item Description	Item #	New or Replace	Qty	Unit Cost	Gross Total Cost	Water Total	Other Financing	Net Water
06. Plants East	Plants East	Tablet Computer	121	N	6	\$ 2,500	\$15,000	\$15,000	\$0	\$15,000
07. Plants Central	Plants Central	Tablet Computer	120	N	14	\$ 2,500	\$35,000	\$35,000	\$0	\$35,000
08. Plants North	Plants North	Tablet Computer	122	N	6	\$ 2,500	\$15,000	\$15,000	\$0	\$15,000
10. Plant Information Systems	PIS Group	Tablet Computer	119	N	11	\$ 2,500	\$27,500	\$27,500	\$0	\$27,500
11. Engineering & Staff Support	Technical Support	Lagan Data Management Software	339	N	1	\$ 180,000	\$180,000	\$90,000	\$0	\$90,000
12. Facilities Management	Bowmanville WSP	Upgrade front gate security, install perimeter fencing and swinging gate	127	N	1	\$ 200,000	\$200,000	\$200,000	\$0	\$200,000
	Whitby WSP	Security Keybox	109	N	1	\$ 20,000	\$20,000	\$20,000	\$0	\$20,000
<b>Grand Total</b>							<b>\$492,500</b>	<b>\$402,500</b>	<b>\$0</b>	<b>\$402,500</b>

**Tangible Capital Asset Program Summary**

1W Facilities Management - New	220,000
3W Fleet/Equipment - New	182,500
	<u>402,500</u>



## 2016 Business Plan

## Works - Water Supply Systems Tangible Capital Assets - Replacement

Program Detail Page	Location	Item Description	Item #	New or Replace	Qty	Unit Cost	Gross Total Cost	Water Total	Other Financing	Net Water
06. Plants East	Plants East	Pump / Motor / Mixer Repair / Replacement	79	R	1	\$ 50,000	\$50,000	\$50,000	\$0	\$50,000
		SCADA / Communications / UPS	98	R	1	\$ 25,000	\$25,000	\$25,000	\$0	\$25,000
07. Plants Central	Ajax WSP	Sodium Hypochlorite Pump Replacements	112	R	4	\$ 60,000	\$240,000	\$240,000	\$0	\$240,000
	Oshawa WSP	Motor Control Centre Low Lift Area	67	R	1	\$ 80,000	\$80,000	\$80,000	\$0	\$80,000
	Plants Central - Grandview South PS	Pump Discharge Valves and Acquators	80	R	1	\$ 100,000	\$100,000	\$100,000	\$0	\$100,000
	Plants Central - Hortop Reservoir	Main Motor Control Centre	66	R	1	\$ 80,000	\$80,000	\$80,000	\$0	\$80,000
		Valve Replacement	134	R	1	\$ 100,000	\$100,000	\$100,000	\$0	\$100,000
	Whitby WSP	Transformer Repair Cabling	125	R	1	\$ 40,000	\$40,000	\$40,000	\$0	\$40,000
08. Plants North	Plants North	Arc Flash Upgrades	22	R	1	\$ 50,000	\$50,000	\$50,000	\$0	\$50,000
		SCADA / Electrical / Communications / UPS	99	R	1	\$ 60,000	\$60,000	\$60,000	\$0	\$60,000
09. Sunvalley	Sunvalley PS	Watermain Replacement	340	N	1	\$ 12,600	\$12,600	\$12,600	(\$12,600)	(\$12,600)
10. Plant Information Systems	Plants Central	Plant Info Systems - SCADA Upgrades	74	R	1	\$ 25,000	\$25,000	\$25,000	\$0	\$25,000
		SCADA Computers	104	R	1	\$ 15,000	\$15,000	\$15,000	\$0	\$15,000
11. Engineering & Staff Support	Financial Services	Computers & Monitors Refresh	3	R	1	\$ 184,160	\$184,160	\$66,145	\$0	\$66,145
12. Facilities Management	Ajax WSP	Replace interlocking pavers in the pergola with asphalt (to prevent vandalism with throwing of loose stones) and landscape improvements	93	N	1	\$ 163,000	\$163,000	\$163,000	\$0	\$163,000
		Replace rusty sinks and refinish chipped counter tops	94	R	1	\$ 41,000	\$41,000	\$41,000	\$0	\$41,000
		Upgrade Security System	128	R	1	\$ 15,000	\$15,000	\$15,000	\$0	\$15,000
	Ajax, Oshawa, Whitby WSP	Access Ladders and Fall Protection Anchor Points	15	N	1	\$ 200,000	\$200,000	\$200,000	\$0	\$200,000
	Beaverton WSP	Roof Replacement	97	R	1	\$ 40,000	\$40,000	\$40,000	\$0	\$40,000
	Bowmanville WSP	HVAC Replacement in the Mechanical Room	51	R	1	\$ 130,000	\$130,000	\$130,000	\$0	\$130,000
		Replace Furniture & Fixtures in Lunch Room	92	R	1	\$ 16,500	\$16,500	\$16,500	\$0	\$16,500
	Plants Central	Upgrade Security System	129	R	1	\$ 46,000	\$46,000	\$46,000	\$0	\$46,000
	Plants East	Upgrade Security System	130	R	1	\$ 18,000	\$18,000	\$18,000	\$0	\$18,000
	Plants North - Blackstock Well 1	Decommission & Demolish Building	31	N	1	\$ 60,000	\$60,000	\$60,000	\$0	\$60,000
	Whitby WSP	Upgrade Security System	131	R	1	\$ 10,000	\$10,000	\$10,000	\$0	\$10,000
<b>Grand Total</b>							<b>\$1,801,260</b>	<b>\$1,683,245</b>	<b>(\$12,600)</b>	<b>\$1,658,045</b>

**Tangible Capital Asset Program Summary**

2W Facilities Management - Replace	679,500
4W Fleet/Equipment - Replace	943,745
6W Buildings - Replace	60,000
	<u>1,683,245</u>

**PROGRAM 6W  
TCA - CONSTRUCTION**



**2016 Program Detail**

**Works - Water Supply System**

Detailed Cost of Program:	2015		2016		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Tangible Capital Assets</b>					
Capital Fund Contribution	29,231	29,231	29,231	2,832	32,063
<b>Total Tangible Capital Assets</b>	<b>29,231</b>	<b>29,231</b>	<b>29,231</b>	<b>2,832</b>	<b>32,063</b>

2016 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue			Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	New Industrial Shortfall	Total User Revenue D					
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
* 1 R.R. 2 (Simcoe St.) from Rossland Rd. to Robert St., Oshawa		C	100.000	0.000	100.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000
* 3 R.R. 16 (Ritson Rd.) from Maine St to Given Rd., Oshawa		D,C	510.000	0.000	510.000	0.000	510.000	0.000	0.000	0.000	0.000	0.000
* 4 R.R. 17 (Main St.) from Mills St. to Taunton Rd., Orono		D	100.000	0.000	100.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000
* 6 R.R. 22 (Victoria St.) from South Blair St. to E of Thickson Rd., Whitby		D	250.000	0.000	250.000	0.000	250.000	0.000	0.000	0.000	0.000	0.000
* 7 R.R.25 (Consumers Dr.) extension from east of Thickson Rd. to Thornton Rd.		C	250.000	0.000	250.000	0.000	250.000	0.000	0.000	0.000	0.000	0.000
* 8 R.R. 26 (Thickson Rd.) from Wentworth St. to C.N.R. bridge, Whitby		D	25.000	0.000	25.000	0.000	25.000	0.000	0.000	0.000	0.000	0.000
* 12 R.R. 52 (Thornton Rd.) Champlain Ave. to Consumers Dr., Oshawa		D,C	100.000	0.000	100.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000
Sub-total			1,335.000	0.000	1,335.000	0.000	1,335.000	0.000	0.000	0.000	0.000	0.000
<b>Area Municipality Road Programs</b>												
20A City of Pickering Road Program		D,C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20B Town of Ajax Road Program		D,C	230.000	0.000	230.000	0.000	230.000	0.000	0.000	0.000	0.000	0.000
20C Town of Whitby Road Program		D,C	1,330.000	0.000	1,330.000	0.000	1,330.000	0.000	0.000	0.000	0.000	0.000
20D City of Oshawa Road Program		D,C	950.000	0.000	950.000	0.000	950.000	0.000	0.000	0.000	0.000	0.000
20E Municipality of Clarington Road Program		D,C	1,595.000	0.000	1,595.000	0.000	1,595.000	0.000	0.000	0.000	0.000	0.000
20F Township of Scugog Road Program		D,C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20G Township of Uxbridge Road Program		D,C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20H Township of Brock Road Program		D,C	860.000	0.000	860.000	0.000	860.000	0.000	0.000	0.000	0.000	0.000
20i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100.000	0.000	100.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000
Sub-total			5,065.000	0.000	5,065.000	0.000	5,065.000	0.000	0.000	0.000	0.000	0.000
<b>MTO &amp; GO Transit projects</b>												
Sub-total			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Betterments/Replacement</b>												
22 Works independent of road programs in various locations		D,C	300.000	0.000	300.000	0.000	300.000	0.000	0.000	0.000	0.000	0.000
23 Rehabilitation of existing watermain in various locations		D,C	1,079.480	0.000	1,079.480	0.000	1,079.480	0.000	0.000	0.000	0.000	0.000
40 Replacement of wm on McQuay Blvd. from Brookdale to Brookdale, Whitby		D,C	320.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	320.000
44 Replacement of wm on Lanark Dr. from Annapolis to Waverly, Oshawa		D,C	580.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	580.000
45 Replacement of wm on Harcourt Dr. from Florell Dr. to DE., Oshawa		D	100.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100.000
49 Replacement of wm on Durham St. from Gibb St to Cartier Ave, Oshawa		D,C	570.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	570.000
53 Replacement of wm on Centre St. from King St. to Brock St., Oshawa		D	120.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	120.000
54 Replacement of wm on Hillside Ave from Lisbon Crt to Seville St., Oshawa		D,C	115.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	115.000
55 Replacement of wm on Montgrave Ave. from Hillside to Pacific Ave., Oshawa		D,C	125.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	125.000
59 Replacement of wm on North St from Grady Dr to N of CPR, Newcastle		D	50.000	0.000	50.000	0.000	50.000	0.000	0.000	0.000	0.000	0.000
Sub-total			3,359.480	0.000	1,429.480	0.000	1,429.480	0.000	0.000	0.000	0.000	1,930.000
<b>System Expansion</b>												
* 66 Zone 1 FM on Rossland Rd. from Church St to Westney Rd., Ajax	18	D	100.000	35.360	0.000	2.945	2.945	1.740	56.750	0.260	2.945	0.000
* 80 WM on Britannia Dr. from Thornton Rd. to Windfields Farm Dr., Oshawa		D	80.000	0.000	0.000	1.456	1.456	2.160	70.240	0.320	5.824	0.000
* 82 WM on Thornton Rd. from Taunton Rd. to Conlin Rd., Oshawa		D	2,100.000	0.000	0.000	2,100.000	2,100.000	0.000	0.000	0.000	0.000	0.000
* 85 Zone 3 FM on Conlin Rd. from Ritson to Garrard Rd. PS., Whitby/Oshawa		D	100.000	0.000	0.000	1.820	1.820	2.700	87.800	0.400	7.280	0.000
* 87 Zone 3 FM on Harmony Rd. from Taunton Rd to Coldstream, Oshawa PH	231	C	300.000	0.000	0.000	5.460	5.460	8.100	263.400	1.200	21.840	0.000

# 2016 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue			Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	New Industrial Shortfall	Total User Revenue D					
* 88 Zone 3 FM on Harmony Rd. from Coldstream to 400 m S of Conlin, Oshaw	231	D	60.000	0.000	0.000	1.092	1.092	1.620	52.680	0.240	4.368	0.000
* 89 Zone 4 FM on Harmony Rd. from Greenhill to 400 m S Conlin Rd., Oshaw		D	60.000	0.000	0.000	1.092	1.092	1.620	52.680	0.240	4.368	0.000
* 94 Courtice Zone 1 feedermain - Phase 2 Courtice		C	3,800.000	0.000	0.000	69.160	69.160	102.600	3,336.400	15.200	276.640	0.000
* 98 Zone 1 FM on Lambs Rd. from Hwy 2 to Liberty Res, Bowmanville	307	C	2,059.535	0.000	0.000	239.403	239.403	56.571	1,763.561	0.000	0.000	0.000
* 108 Zone 2 FM on Arthur St from Z 2 PS to 650 m S., Newcastle		D	300.000	0.000	0.000	5.460	5.460	8.100	263.400	1.200	21.840	0.000
* 109 FM on Scugog Line 3 from Simcoe to Old Simcoe, Port Perry	402	D	300.000	0.000	256.050	1.402	257.452	1.188	38.580	0.177	2.603	0.000
Sub-total			9,259.535	35.360	256.050	2,429.289	2,685.339	186.399	5,985.491	19.237	347.708	0.000
<b>Other Linear Infrastructure</b>												
111 Replacement of meters		C	3,100.000	0.000	3,100.000	0.000	3,100.000	0.000	0.000	0.000	0.000	0.000
* 112 Design - Replacement of Polybutylene service connections		D,C	12,700.000	0.000	11,121.300	0.000	11,121.300	0.000	0.000	0.000	0.000	1,578.700
113 Depots - Replacement of Polybutylene services connections		C	1,800.000	0.000	1,800.000	0.000	1,800.000	0.000	0.000	0.000	0.000	0.000
114 Replacement of valves			150.000	0.000	150.000	0.000	150.000	0.000	0.000	0.000	0.000	0.000
115 Replacement of hydrants			150.000	0.000	150.000	0.000	150.000	0.000	0.000	0.000	0.000	0.000
Sub-total			17,900.000	0.000	16,321.300	0.000	16,321.300	0.000	0.000	0.000	0.000	1,578.700
<b>B BUILDINGS</b>												
* 116 Duffin Creek WPCP - Laboratory expansion, Pickering	708	D	250.000	125.000	0.000	2.275	2.275	3.375	109.750	0.500	9.100	0.000
121 Whitby WSP - expansion		D	1,075.597	0.000	124.056	0.000	124.056	29.534	922.007	0.000	0.000	0.000
122 New Zone 4 pumping station, Whitby	214	EA	600.000	0.000	0.000	10.920	10.920	16.200	526.800	2.400	43.680	0.000
* 132 Proposed Oshawa Zone 4 storage facility, Oshawa	208	EA	500.000	0.000	0.000	9.100	9.100	13.500	439.000	2.000	36.400	0.000
139 Proposed Zone 2 Water Pumping Station, Newcastle	315	EA	500.000	0.000	0.000	9.100	9.100	13.500	439.000	2.000	36.400	0.000
* 149 Wellhead protection at Regional well sites		D,C	800.000	0.000	800.000	0.000	800.000	0.000	0.000	0.000	0.000	0.000
Sub-total			3,725.597	125.000	924.056	31.395	955.451	76.109	2,436.557	6.900	125.580	0.000
<b>C MACHINERY AND EQUIPMENT</b>												
* 154 Bowmanville WPS - Filter Refurbishment		C	1,500.000	0.000	1,500.000	0.000	1,500.000	0.000	0.000	0.000	0.000	0.000
* 155 Bowmanville WPS - Chlorine Gas Scrubber protection		C	1,230.000	0.000	1,230.000	0.000	1,230.000	0.000	0.000	0.000	0.000	0.000
Sub-total			2,730.000	0.000	2,730.000	0.000	2,730.000	0.000	0.000	0.000	0.000	0.000
<b>D IT INFRASTRUCTURE</b>												
* 157 Ajax WSP - Genset Controls		C	580.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	580.000
Sub-total			580.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	580.000
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
164 Allowance for acquisition of easements		D,C	150.000	0.000	150.000	0.000	150.000	0.000	0.000	0.000	0.000	0.000
165 Allowance for engineering studies		D,C	150.000	0.000	150.000	0.000	150.000	0.000	0.000	0.000	0.000	0.000
166 Preliminary Engineering		D	100.000	0.000	100.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000
167 Allowance for sundry extensions as per council policy		D,C	15.000	0.000	15.000	0.000	15.000	0.000	0.000	0.000	0.000	0.000
168 Allowance for unknown requirements		D,C	100.000	0.000	100.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000
169 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460.000	0.000	0.000	26.572	26.572	39.420	1,281.880	5.840	106.288	0.000
170 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400.000	0.000	0.000	7.280	7.280	10.800	351.200	1.600	29.120	0.000
171 Well interference works		D	400.000	0.000	0.000	0.000	0.000	0.000	400.000	0.000	0.000	0.000
172 Fuel tank compliance		D	350.000	0.000	350.000	0.000	350.000	0.000	0.000	0.000	0.000	0.000

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# 2016 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue			Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	New Industrial Shortfall	Total User Revenue D					
Sub-total			3,125.000	0.000	865.000	33.852	898.852	50.220	2,033.080	7.440	135.408	0.000
<b>Total Cost Attribution</b>			<b>47,079.612</b>	<b>160.360</b>	<b>28,925.886</b>	<b>2,494.536</b>	<b>31,420.422</b>	<b>312.729</b>	<b>10,455.127</b>	<b>33.577</b>	<b>608.696</b>	<b>4,088.700</b>
DC Revenue Shortfall to be financed from User Revenue							642.273	0.000	0.000	33.577	608.696	0.000
<b>Total financing</b>							<b>32,062.696</b>	<b>312.729</b>	<b>10,455.127</b>	<b>0.000</b>	<b>0.000</b>	<b>4,088.700</b>

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

# 2017 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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. 17 (Main St.) from Mills St. to Taunton Rd., Orono		C	1,170	0.00	1,170.00	1,170.00	0.00	0.00	0.00	0.00	0.00
* 7 R.R.25 (Consumers Dr.) extension from east of Thickson Rd. to Thornton Rd.		C	1,040	0.00	1,040.00	1,040.00	0.00	0.00	0.00	0.00	0.00
* 9 R.R. 33 (Harmony Rd.) from Rossland Rd. to Conlin Rd., Oshawa		C	250	0.00	0.00	0.00	6.75	219.50	1.00	22.75	0.00
14 R.R. 57 (Martin Rd.) from Baseline Rd. to Nash Rd., Bowmanville		D	25	0.00	25.00	25.00	0.00	0.00	0.00	0.00	0.00
19 Allowance for watermain in conjunction with Regional Roads		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,585	0.00	2,335.00	2,335.00	6.75	219.50	1.00	22.75	0.00
<b>Area Municipality Road Programs</b>											
20A City of Pickering Road Program		D,C	275	0.00	275.00	275.00	0.00	0.00	0.00	0.00	0.00
20B Town of Ajax Road Program		D,C	197	0.00	197.00	197.00	0.00	0.00	0.00	0.00	0.00
20C Town of Whitby Road Program		D,C	618	0.00	618.00	618.00	0.00	0.00	0.00	0.00	0.00
20D City of Oshawa Road Program		D,C	1,095	0.00	1,095.00	1,095.00	0.00	0.00	0.00	0.00	0.00
20E Municipality of Clarington Road Program		D,C	366	0.00	366.00	366.00	0.00	0.00	0.00	0.00	0.00
20F Township of Scugog Road Program		D,C	130	0.00	130.00	130.00	0.00	0.00	0.00	0.00	0.00
20G Township of Uxbridge Road Program		D,C	270	0.00	270.00	270.00	0.00	0.00	0.00	0.00	0.00
20H Township of Brock Road Program		D,C	250	0.00	250.00	250.00	0.00	0.00	0.00	0.00	0.00
20i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,301	0.00	3,301.00	3,301.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>											
* 21 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacement</b>											
22 Works independent of road programs in various locations		D,C	675	0.00	675.00	675.00	0.00	0.00	0.00	0.00	0.00
23 Rehabilitation of existing watermain in various locations		D,C	1,600	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	0.00
41 Replacement of wm on Bloor St. from Grandview to Townline, Oshawa		C	1,600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,600.00
42 Replacement of wm on Farewell St. from CPR to Bloor St., Oshawa		D,C	470	0.00	470.00	470.00	0.00	0.00	0.00	0.00	0.00
45 Replacement of wm on Harcourt Dr. from Florell Dr. to DE., Oshawa		C	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
47 Replacement of wm on Athol St from Simcoe St to Celina St, Oshawa		D,C	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
59 Replacement of wm on North St from Grady Dr to N of CPR, Newcastle		C	880	0.00	880.00	880.00	0.00	0.00	0.00	0.00	0.00
65 Allowance for construction of services in unserved areas		C	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00
Sub-total			5,925	0.00	3,825.00	3,825.00	0.00	0.00	0.00	0.00	2,100.00
<b>System Expansion</b>											
74 Zone 3 WM crossing Lynde Creek from Way St. to 250 m E., Brooklin	230	C	750	0.00	0.00	0.00	20.25	658.50	3.00	68.25	0.00
* 77 Zone 4 FM on Thickson Rd. PS to Reservoir, Whitby	244	D	1,500	0.00	0.00	0.00	40.50	1,317.00	6.00	136.50	0.00
* 85 Zone 3 FM on Conlin Rd. from Ritson to Garrard Rd. PS., Whitby/Oshawa		D	2,300	0.00	0.00	0.00	62.10	2,019.40	9.20	209.30	0.00
* 91 Zone 4 FM from PS to Zone 4 Reservoir, Oshawa	242	D	1,000	0.00	0.00	0.00	27.00	878.00	4.00	91.00	0.00

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# 2017 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
* 96 Zone 1 FM on Prestonvale Rd from Baseline Rd to 950m N., Courtice	224	D	150	0.00	0.00	0.00	4.05	131.70	0.60	13.65	0.00	
* 98 Zone 1 FM on Lambs Rd. from Hwy 2 to Liberty Res, Bowmanville	307	C	11,250	0.00	0.00	0.00	303.75	9,877.50	45.00	1,023.75	0.00	
* 105 Zone 1 FM on Toronto St from Newcastle WPCP to King St, Newcastle	318	C	4,500	0.00	225.00	225.00	115.26	3,753.45	17.21	389.08	0.00	
* 108 Zone 2 feedermain on Arthur St from Z 2 PS to 650 m N, Newcastle	320	C	1,000	0.00	0.00	0.00	27.00	878.00	4.00	91.00	0.00	
* 109 FM on Scugog Line 3 from Simcoe to Old Simcoe, Port Perry	402	C	1,250	0.00	1,066.88	1,066.88	4.95	160.75	0.74	16.69	0.00	
* 110 WM on Scugog Line 6 from Hwy 12 to Hwy 7A, Scugog		C	1,220	630.00	590.00	590.00	0.00	0.00	0.00	0.00	0.00	
Sub-total			24,920	630.00	1,881.88	1,881.88	604.86	19,674.30	89.75	2,039.21	0.00	
<b>Other Linear Infrastructure</b>												
111 Replacement of meters		C	1,500	0.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	0.00	
* 112 Design - Replacement of Polybutylene service connections		D,C	12,900	0.00	11,411.30	11,411.30	0.00	0.00	0.00	0.00	1,488.70	
113 Depots - Replacement of Polybutylene service connections		C	1,600	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	0.00	
114 Replacement of valves		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	
115 Replacement of hydrants		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	
Sub-total			16,300	0.00	14,811.30	14,811.30	0.00	0.00	0.00	0.00	1,488.70	
<b>B BUILDINGS</b>												
* 116 Duffin Creek WPCP - Laboratory expansion, Pickering	708	C	2,500	1,250.00	0.00	0.00	33.750	1,097.500	5.000	113.750	0.00	
* 118 Harwood Ave. Pumping Station, Ajax	103	D	350	0.00	0.00	0.00	9.45	307.30	1.40	31.85	0.00	
128 Zone 4 pumping station at Harmony Rd. Reservoir, Oshawa	210	D	500	0.00	0.00	0.00	13.50	439.00	2.00	45.50	0.00	
* 132 Proposed Oshawa Zone 4 Storage facility, Oshawa	208	D	1,000	0.00	0.00	0.00	27.00	878.00	4.00	91.00	0.00	
* 134 Liberty St. Zone 1 reservoir and abandon existing elevated tank	301	C	10,850	0.00	1,481.57	1,481.57	252.59	8,225.494	37.76	852.59	0.00	
* 137 Expansion of Newcastle WSP, Clarington	312	C	21,100	0.00	0.00	0.00	1,688.00	13,567.30	232.10	5,612.60	0.00	
* 138 Proposed Zone 1 reservoir, Newcastle Clarington	313	D	900	0.00	0.00	0.00	24.30	790.20	3.60	81.90	0.00	
139 Proposed Zone 2 Water Pumping Station, Newcastle	315	D	600	0.00	0.00	0.00	16.20	526.80	2.40	54.60	0.00	
* 143 Port Perry reservoir expansion	401	D	1,000	0.00	853.50	853.50	3.90	128.60	0.60	13.40	0.00	
* 144 New Well and pumphouse, Uxbridge	500	D	500	0.00	23.35	23.35	38.10	306.50	5.30	126.75	0.00	
* 145 Expansion of Quaker Hill reservoir, Uxbridge	501	D	400	0.00	18.68	18.68	30.48	245.20	4.24	101.40	0.00	
* 147 New Well and pumphouse, Cannington	600	C	4,180	0.00	4,094.73	4,094.73	6.69	55.18	0.84	22.57	0.00	
* 149 Wellhead protection at Regional well sites		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00	
Sub-total			44,680	1,250.00	7,271.83	7,271.83	2,143.96	26,567.07	299.23	7,147.92	0.00	
<b>C MACHINERY AND EQUIPMENT</b>												
* 150 New diesel generator at the Ajax WSP		D	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00	
* 156 Automatic bulk water dispensing system - Phase I		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00	
Sub-total			500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00	
<b>D IT INFRASTRUCTURE</b>												
* 158 Plant SCADA system upgrades	700	C	5,000	0.00	3,150.00	3,150.00	148.00	1,189.50	20.50	492.00	0.00	
Sub-total			5,000	0.00	3,150.00	3,150.00	148.00	1,189.50	20.50	492.00	0.00	
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
160 Emergency Planning Updating Requirements		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	

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# 2017 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
161 Asset Condition Assessments-Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
162 Asset Condition Assessment/Investigation Large CPP feedermain		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
163 Master Planning energy management		D	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
164 Allowance for acquisition of easements		D,C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
165 Allowance for engineering studies		D,C	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
166 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
167 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
168 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
169 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460	0.00	0.00	0.00	39.42	1,281.88	5.84	132.86	0.00	0.00
170 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400	0.00	0.00	0.00	10.80	351.20	1.60	36.40	0.00	0.00
171 Well interference works		D	400	0.00	0.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00
172 Fuel tank compliance		C	1,000	0.00	1,000.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			4,475	0.00	1,715.00	1,715.00	50.22	2,033.08	7.44	169.26	0.00	500.00
<b>Total Cost Attribution</b>			<b>107,786</b>	<b>1,880.00</b>	<b>38,891.00</b>	<b>38,891.00</b>	<b>2,953.79</b>	<b>49,683.45</b>	<b>417.92</b>	<b>9,871.14</b>		<b>4,088.70</b>

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

# 2018 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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. 22 (Bayly St.) intersection improvements at Harwood Avenue, Ajax		C	210	0.00	210.00	210.00	0.00	0.00	0.00	0.00	0.00	0.00
* 6 R.R. 22 (Victoria St.) from South Blair St. to E of Thickson Rd., Whitby		D,C	1,050	0.00	1,050.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00
* 8 R.R. 26 (Thickson Rd.) from Wentworth St. to C.N.R. bridge, Whitby		C	170	0.00	170.00	170.00	0.00	0.00	0.00	0.00	0.00	0.00
15 R.R. 58 Manning Rd/Adelaide Ave. Intersection improvements		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
19 Allowance for water mains in conjunction with Regional Roads		C	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			1,730	0.00	1,730.00	1,730.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
20A City of Pickering Road Program		D,C	275	0.00	275.00	275.00	0.00	0.00	0.00	0.00	0.00	0.00
20B Town of Ajax Road Program		D,C	197	0.00	197.00	197.00	0.00	0.00	0.00	0.00	0.00	0.00
20C Town of Whitby Road Program		D,C	618	0.00	618.00	618.00	0.00	0.00	0.00	0.00	0.00	0.00
20D City of Oshawa Road Program		D,C	1,095	0.00	1,095.00	1,095.00	0.00	0.00	0.00	0.00	0.00	0.00
20E Municipality of Clarington Road Program		D,C	366	0.00	366.00	366.00	0.00	0.00	0.00	0.00	0.00	0.00
20F Township of Scugog Road Program		D,C	130	0.00	130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00
20G Township of Uxbridge Road Program		D,C	270	0.00	270.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00
20H Township of Brock Road Program		D,C	250	0.00	250.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
20i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,301	0.00	3,301.00	3,301.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 21 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacement</b>												
22 Works independent of road programs in various locations		D,C	675	0.00	675.00	675.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Rehabilitation of existing water mains in various locations		D,C	1,600	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Replacement of wm on Cameron St. from Elizabeth to Windsor, Ajax		D,C	425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	425.00
46 Replacement of wm on Madawaska Ave from Sauble to Wecker, Oshawa		D	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160.00
48 Replacement of wm on Adelaide Ave. from Roxborough to Juliana, Oshawa		D	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
* 53 Replacement of wm on Centre St. from King St to Brock St., Oshawa		C	770	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	770.00
57 Replacement of wm on Ritson Rd from Madawaska to Lakeview, Oshawa		D,C	78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.00
63 Replacement of wm on Bay St from Mill St to Union St, Brock		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
65 Allowance for construction of services in unserved areas		C	1,100	0.00	1,100.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			5,108	0.00	3,375.00	3,375.00	0.00	0.00	0.00	0.00	0.00	1,733.00
<b>System Expansion</b>												
* 66 Zone 1 FM on Rossland Rd. from Church St. to Westney Rd, Ajax	18	C	5,650	1,997.84	0.00	0.00	98.31	3,206.38	14.69	332.79	0.00	0.00

# 2018 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
* 68 Zone 1 FM on Harwood Ave from Rossland to Magill Dr., Ajax	105	D	800	299.68	0.00	0.00	13.52	439.28	2.00	45.52	0.00
* 77 Zone 4 FM on Thickson Rd. PS to Reservoir, Whitby	244	D	14,000	0.00	0.00	0.00	378.00	12,292.00	56.00	1,274.00	0.00
81 Zone 1 FM on Bloor St. from Stevenson Rd. to Wilson Rd., Oshawa	220	C	4,750	0.00	0.00	0.00	128.25	4,170.50	19.00	432.25	0.00
* 84 Zone 2 FM on Bloor St from Townline Rd. to Trulls, Courtice	226	D	400	0.00	20.00	20.00	10.24	333.64	1.52	34.60	0.00
* 85 Zone 3 FM on Conlin Rd. from Ritson to Garrard Rd. PS., W/O	227	C	14,000	0.00	0.00	0.00	378.00	12,292.00	56.00	1,274.00	0.00
* 86 Zone 3 FM on Conlin Rd. from Ritson Rd. to Wilson Rd., Oshawa	229	D	3,600	0.00	0.00	0.00	97.20	3,160.80	14.40	327.60	0.00
* 94 Courtice Zone 1 feedermain - Phase 3 Courtice		C	3,800	0.00	0.00	0.00	102.60	3,336.40	15.20	345.80	0.00
* 96 Zone 1 FM on Prestonvale Rd from Baseline Rd to 950m N., Courtice	224	C	1,350	0.00	0.00	0.00	36.45	1,185.30	5.40	122.85	0.00
* 102 Zone 2 FM on Third Concession Rd. from Middle Rd. to Mearns, CL	310	D,C	3,400	0.00	0.00	0.00	91.80	2,985.20	13.60	309.40	0.00
* 103 Zone 2 FM on Third Concession Rd. from Middle Rd. to RR57	311	D,C	925	0.00	0.00	0.00	24.98	812.15	3.70	84.18	0.00
* 106 Zone 1 feedermain from Arthur St Res to New Zone 1 Res., Newcastle	319	C	2,450	0.00	0.00	0.00	66.15	2,151.10	9.80	222.95	0.00
* 107 Zone 1 FM on King St. from Rudell Rd to 200m N., Newcastle	317	C	950	0.00	0.00	0.00	25.65	834.10	3.80	86.45	0.00
Sub-total			56,075	2,297.52	20.00	20.00	1,451.15	47,198.85	215.11	4,892.38	0.00
<b>Other Linear Infrastructure</b>											
111 Replacement of meters		C	1,500	0.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	0.00
* 112 Design - Replacement of Polybutylene service connections		D,C	13,300	0.00	11,444.30	11,444.30	0.00	0.00	0.00	0.00	1,855.70
113 Depots - Replacement of Polybutylene service connections		C	1,400	0.00	1,400.00	1,400.00	0.00	0.00	0.00	0.00	0.00
114 Replacement of valves		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
115 Replacement of hydrants		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
Sub-total			16,500	0.00	14,644.30	14,644.30	0.00	0.00	0.00	0.00	1,855.70
<b>B BUILDINGS</b>											
* 117 Expansion of Ajax WSP, Ajax	100	EA	1,500	840.00	0.00	0.00	52.05	424.20	7.80	175.95	0.00
* 119 Ajax Zone 1 storage facility - 11,360 m <sup>3</sup>	101	EA	500	0.00	0.00	0.00	13.50	439.00	2.00	45.50	0.00
122 New Zone 4 pumping station, Whitby	214	D	600	0.00	0.00	0.00	16.20	526.80	2.40	54.60	0.00
123 Garrard Rd. Zone 3 - pump modifications , Whitby	209	C	1,250	0.00	0.00	0.00	33.75	1,097.50	5.00	113.75	0.00
125 Proposed Whitby Zone 4 Storage Facility	207	D	1000	0.00	0.00	0.00	27.00	878.00	4.00	91.00	0.00
* 138 Proposed Zone 1 reservoir, Newcastle Clarington	313	C	6,000	0.00	0.00	0.00	162.00	5,268.00	24.00	546.00	0.00
139 Proposed Zone 2 Water Pumping Station, Newcastle	315	C	3,850	0.00	0.00	0.00	103.95	3,380.30	15.40	350.35	0.00
* 142 Alternative water source, Scugog	400	D	3,000	0.00	2,568.30	2,568.30	34.50	277.80	4.80	114.60	0.00
* 144 New Well and pumphouse, Uxbridge	500	C	2,800	0.00	130.76	130.76	213.36	1,716.40	29.68	709.80	0.00
* 145 Expansion of Quaker Hill reservoir, Uxbridge	501	C	3,180	0.00	148.51	148.51	242.32	1,949.34	33.71	806.13	0.00
* 146 Sunderland New well and pumphouse, Brock	601	D	450	0.00	440.82	440.82	0.72	5.94	0.09	2.43	0.00
* 149 Wellhead protection at Regional well sites		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00
Sub-total			24,930	840.00	4,088.39	4,088.39	899.35	15,963.28	128.88	3,010.11	0.00
<b>C MACHINERY AND EQUIPMENT</b>											
* 150 New diesel generator at the Ajax WSP		C	1,800	0.00	1,800.00	1,800.00	0.00	0.00	0.00	0.00	0.00
* 153 Oshawa WSP - Valve Chamber Upgrades		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
* 156 Automatic bulk water dispensing system		D,C	440	0.00	440.00	440.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,340	0.00	2,340.00	2,340.00	0.00	0.00	0.00	0.00	0.00

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# 2018 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
<b>D IT INFRASTRUCTURE</b>											
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
161 Asset Condition Assessments-Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
162 Asset Condition Assessment/Investigation Large CPP feedermain		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
164 Allowance for acquisition of easements		D,C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
165 Allowance for engineering studies		D,C	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00
166 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
167 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00
168 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
169 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460	0.00	0.00	0.00	39.42	1,281.88	5.84	132.86	0.00
170 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400	0.00	0.00	0.00	10.80	351.20	1.60	36.40	0.00
171 Well interference works		D	400	0.00	0.00	0.00	0.00	400.00	0.00	0.00	0.00
Sub-total			3,175	0.00	415.00	415.00	50.22	2,033.08	7.44	169.26	500.00
<b>Total Cost Attribution</b>			<b>113,259</b>	<b>3,137.52</b>	<b>30,013.69</b>	<b>30,013.69</b>	<b>2,400.71</b>	<b>65,195.21</b>	<b>351.43</b>	<b>8,071.75</b>	<b>4,088.70</b>

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

# 2019 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville		D	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
* 14 R.R. 57 (Martin Rd.) from Baseline Rd. to Nash Rd., Bowmanville		C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
19 Allowance for watermain in conjunction with Regional Roads		D,C	1,200	0.00	1,200.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			1,600	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
20A City of Pickering Road Program		D,C	275	0.00	275.00	275.00	0.00	0.00	0.00	0.00	0.00	0.00
20B Town of Ajax Road Program		D,C	197	0.00	197.00	197.00	0.00	0.00	0.00	0.00	0.00	0.00
20C Town of Whitby Road Program		D,C	618	0.00	618.00	618.00	0.00	0.00	0.00	0.00	0.00	0.00
20D City of Oshawa Road Program		D,C	1,095	0.00	1,095.00	1,095.00	0.00	0.00	0.00	0.00	0.00	0.00
20E Municipality of Clarington Road Program		D,C	366	0.00	366.00	366.00	0.00	0.00	0.00	0.00	0.00	0.00
20F Township of Scugog Road Program		D,C	130	0.00	130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00
20G Township of Uxbridge Road Program		D,C	270	0.00	270.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00
20H Township of Brock Road Program		D,C	250	0.00	250.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
20i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,301	0.00	3,301.00	3,301.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 21 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacement</b>												
22 Works independent of road programs in various locations		D,C	718	0.00	718.00	718.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Rehabilitation of existing watermain in various locations		D,C	1,600	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
26 Replacement of wm on Brock Rd from Feldspar to Clements, Pickering		D,C	525	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	525.00
46 Replacement of wm on Madawaska Ave from Sauble to Wecker, Oshawa		D	740	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	740.00
48 Replacement of wm on Adelaide from Roxborough to Juliana, Oshwa		C	570	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	570.00
56 Replacement of wm on Wilson from Raleigh to Wentworth, Oshawa		D,C	490	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	490.00
59 Replacement of wm on North St. from N of CPR to Concession 3., Newcastle		D	60	0.00	60.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00
65 Allowance for construction of services in unserved areas		C	1,150	0.00	1,150.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			5,853	0.00	3,528.00	3,528.00	0.00	0.00	0.00	0.00	0.00	2,325.00
<b>System Expansion</b>												
* 68 Zone 1 fm on Harwood Ave from Rossland to Magill Dr., Ajax	105	C	3,425	1,283.01	0.00	0.00	57.88	1,880.67	8.56	194.88	0.00	0.00
* 71 Zone 1 FM on Victoria St. from Thickson Rd to Thornton Rd., Whitby	217	D	11,800	0.00	590.00	590.00	302.08	9,842.38	44.84	1,020.70	0.00	0.00
* 75 Zone 3 FM on Conlin Rd from Anderson St. to Garrard Rd. PS, Whitby	227	D	700	0.00	0.00	0.00	18.90	614.60	2.80	63.70	0.00	0.00
* 76 Zone 3 FM on Anderson St. from Conlin Rd. to Clair Ave., Whitby		D	450	0.00	0.00	0.00	12.15	395.10	1.80	40.95	0.00	0.00
* 78 Zone 4 FM on Brawley Rd. from Duff Rd. to Ashburn Rd., Whitby		D	500	0.00	0.00	0.00	13.50	439.00	2.00	45.50	0.00	0.00
* 84 Zone 2 FM on Bloor St from Townline Rd. to Trulls, Courtice	226	C	2,850	0.00	142.50	142.50	72.96	2,377.19	10.83	246.53	0.00	0.00
* 88 Zone 3 FM on Harmony Rd. from Coldstream to 400 m S of Conlin, O	231	C	2,300	0.00	0.00	0.00	62.10	2,019.40	9.20	209.30	0.00	0.00
* 89 Zone 4 FM on Harmony Rd. from Greenhill to 400 m S Conlin Rd., O	237	C	600	0.00	0.00	0.00	16.20	526.80	2.40	54.60	0.00	0.00



# 2019 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
* 91 Zone 4 FM from PS to Zone 4 Reservoir, Oshawa	242	D	13,000	0.00	0.00	0.00	351.00	11,414.00	52.00	1,183.00	0.00	
* 97 Zone 1 FM on easement from Townline Rd to Prestonvale Rd, Courtice	223	D	150	0.00	0.00	0.00	4.05	131.70	0.60	13.65	0.00	
* 99 Zone 1 FM on Baseline Rd from Liberty St to RR 57, Bowmanville	308	D	400	0.00	20.00	20.00	10.24	333.64	1.52	34.60	0.00	
Sub-total			36,175	1,283.01	752.50	752.50	921.06	29,974.47	136.55	3,107.41	0.00	
<b>Other Linear Infrastructure</b>												
111 Replacement of meters		C	1,500	0.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	0.00	
* 112 Design - Replacement of Polybutylene service connections		D,C	13,600	0.00	12,336.30	12,336.30	0.00	0.00	0.00	0.00	1,263.70	
113 Depots - Replacement of Polybutylene service connections		C	1,200	0.00	1,200.00	1,200.00	0.00	0.00	0.00	0.00	0.00	
114 Replacement of valves		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	
115 Replacement of hydrants		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	
Sub-total			16,600	0.00	15,336.30	15,336.30	0.00	0.00	0.00	0.00	1,263.70	
<b>B BUILDINGS</b>												
* 118 Harwood Ave. PS modifications, Ajax	103	C	1,300	0.00	0.00	0.00	35.10	1,141.40	5.20	118.30	0.00	
* 121 Expansion of Whitby WSP, Whitby	200	C	130,000	0.00	0.00	0.00	10,400.00	83,590.00	1,430.00	34,580.00	0.00	
* 128 Proposed Zone 4 Pumping Station at Harmony Rd Res, Whitby	210	C	6,100	0.00	0.00	0.00	164.70	5,355.80	24.40	555.10	0.00	
* 132 Oshawa Zone 4 Storage facility, Oshawa	208	D	7,500	0.00	0.00	0.00	202.50	6,585.00	30.00	682.50	0.00	
141 Proposed Orono storage facility, Clarington	314	EA	400	0.00	348.88	348.88	1.36	44.88	0.24	4.64	0.00	
* 143 Port Perry reservoir expansion	401	C	10,600	0.00	9,047.10	9,047.10	42.40	1,363.16	6.36	140.98	0.00	
* 146 Sunderland New well and pumphouse, Brock	601	D	3,700	0.00	3,624.52	3,624.52	5.92	48.84	0.74	19.98	0.00	
* 149 Wellhead protection at Regional well sites		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00	
Sub-total			160,400	0.00	13,820.50	13,820.50	10,851.98	98,129.08	1,496.94	36,101.50	0.00	
<b>C MACHINERY AND EQUIPMENT</b>												
* 153 Oshawa WSP - Valve Chamber Upgrades		C	525	0.00	525.00	525.00	0.00	0.00	0.00	0.00	0.00	
* 156 Automatic bulk water dispensing system		D,C	440	0.00	440.00	440.00	0.00	0.00	0.00	0.00	0.00	
Sub-total			965	0.00	965.00	965.00	0.00	0.00	0.00	0.00	0.00	
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
161 Asset Condition Assessments-Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00	
162 Asset Condition Assessment/Investigation Large CPP feedermain		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00	
164 Allowance for acquisition of easements		D,C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	
165 Allowance for engineering studies		D,C	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00	
166 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	
167 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	
168 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	
169 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460	0.00	0.00	0.00	39.42	1,281.88	5.84	132.86	0.00	
170 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400	0.00	0.00	0.00	10.80	351.20	1.60	36.40	0.00	

# 2019 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
171 Well interference works		D	400	0.00	0.00	0.00	0.00	400.00	0.00	0.00	0.00
Sub-total			3,175	0.00	415.00	415.00	50.22	2,033.08	7.44	169.26	500.00
<b>Total Cost Attribution</b>			<b>228,169</b>	<b>1,283.01</b>	<b>39,818.30</b>	<b>39,818.30</b>	<b>11,823.26</b>	<b>130,136.63</b>	<b>1,640.93</b>	<b>39,378.17</b>	<b>4,088.70</b>

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

# 2020 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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 R.R. 43 Cochrane St. from Ferguson St. to Bonacord Ave. Whitby		C	791	0.00	790.50	790.50	0.00	0.00	0.00	0.00	0.00	0.00
13 R.R. 53 (Stevenson Rd.) from Bond St. to Rossland Rd., Oshawa		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
15 R.R. 58 Manning Rd/Adelaide Ave. Intersection improvements		D,C	740	0.00	740.00	740.00	0.00	0.00	0.00	0.00	0.00	0.00
16 R.R. 59 (Gibb St) from Stevenson Rd to Simcoe St, Oshawa		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
18 R.R. 60 (Wentworth St.) from Farewell St. to Simcoe St., Oshawa		D,C	1,250	0.00	1,250.00	1,250.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,981	0.00	2,980.50	2,980.50	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
20A City of Pickering Road Program		D,C	275	0.00	275.00	275.00	0.00	0.00	0.00	0.00	0.00	0.00
20B Town of Ajax Road Program		D,C	197	0.00	197.00	197.00	0.00	0.00	0.00	0.00	0.00	0.00
20C Town of Whitby Road Program		D,C	618	0.00	618.00	618.00	0.00	0.00	0.00	0.00	0.00	0.00
20D City of Oshawa Road Program		D,C	1,095	0.00	1,095.00	1,095.00	0.00	0.00	0.00	0.00	0.00	0.00
20E Municipality of Clarington Road Program		D,C	366	0.00	366.00	366.00	0.00	0.00	0.00	0.00	0.00	0.00
20F Township of Scugog Road Program		D,C	130	0.00	130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00
20G Township of Uxbridge Road Program		D,C	270	0.00	270.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00
20H Township of Brock Road Program		D,C	250	0.00	250.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
20i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,301	0.00	3,301.00	3,301.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 21 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacement</b>												
22 Works independent of road programs in various locations		D,C	754	0.00	754.00	754.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Rehabilitation of existing watermain in various locations		D,C	1,600	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
25 Replacement of wm on Rougemount Dr from Kingston Rd to 100m S, Pickering		D,C	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	190.00
27 Replacement of wm on Notion Rd from Kingston Rd to 230 m S, Pickering		D,C	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
29 Replacement of wm on Windsor Dr from Old Kingston to Cameron, Ajax		C	400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	400.00
32 Replacement of wm on Centre St. from Dundas St to Arthur St, Whitby		D	40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00
34 Replacement of wm on Centre St from Palmerston to Rossland, Whitby		D,C	382	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	382.00
51 Replacement of wm on Adelaide from Kasyer to Centre, Oshawa		D	80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.00
59 Replacement of wm on North St. from N of CPR to Concession 3., Newcastle		C	1,140	0.00	1,140.00	1,140.00	0.00	0.00	0.00	0.00	0.00	0.00
63 Replacement of wm on Bay St from Mill St to Union St, Brock		D	1,160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,160.00
Sub-total			5,846	0.00	3,494.00	3,494.00	0.00	0.00	0.00	0.00	0.00	2,352.00
<b>System Expansion</b>												
* 71 Zone 1 FM from Whitby WSP to Victoria St./CNR, Whitby	215	C	11,100	0.00	555.00	555.00	284.16	9,258.51	42.18	960.15	0.00	0.00
* 75 Zone 3 FM on Conlin Rd from Anderson St. to Garrard Rd PS, Whitby	227	D	3,550	0.00	0.00	0.00	95.85	3,116.90	14.20	323.05	0.00	0.00
* 76 Zone 3 FM on Anderson St. from Conlin Rd. to Clair Ave, Whitby		C	4,400	0.00	0.00	0.00	118.80	3,863.20	17.60	400.40	0.00	0.00

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# 2020 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
* 83 WM modifications in conjunction w/Harmony Creek sewer, Oshawa		C	140	0.00	140.00	140.00	0.00	0.00	0.00	0.00	0.00
* 97 Zone 1 FM on easement from Townline Rd to Prestonvale Rd, Courtice	223	D	1,250	0.00	0.00	0.00	33.75	1,097.50	5.00	113.75	0.00
* 99 Zone 1 FM on Baseline Rd from Liberty St to RR 57, Bowmanville	308	D	4,300	0.00	215.00	215.00	110.08	3,586.63	16.34	371.95	0.00
Sub-total			24,740	0.00	910.00	910.00	642.64	20,922.74	95.32	2,169.30	0.00
<b>Other Linear Infrastructure</b>											
111 Replacement of meters		C	1,500	0.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	0.00
* 112 Design - Replacement of Polybutylene service connections		D,C	13,800	0.00	12,563.30	12,563.30	0.00	0.00	0.00	0.00	1,236.70
113 Depots - Replacement of Polybutylene service connections		C	1,000	0.00	1,000.00	1,000.00	0.00	0.00	0.00	0.00	0.00
114 Replacement of valves		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
115 Replacement of hydrants		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
Sub-total			16,600	0.00	15,363.30	15,363.30	0.00	0.00	0.00	0.00	1,236.70
<b>B BUILDINGS</b>											
* 117 Expansion of Ajax WSP, Ajax	100	D	2,000	1,120.00	0.00	0.00	69.40	565.60	10.40	234.60	0.00
122 New Zone 4 pumping station, Whitby		C	5900	0.00	0.00	0.00	159.30	5,180.20	23.60	536.90	0.00
125 Zone 4 reservoir Whitby	207	C	8000	0.00	0.00	0.00	216.00	7,024.00	32.00	728.00	0.00
* 142 Alternative water source, Scugog	400	C	14,800	0.00	12,670.28	12,670.28	170.20	1,370.48	23.68	565.36	0.00
* 149 Wellhead protection at Regional well sites		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00
Sub-total			31,500	1,120.00	13,470.28	13,470.28	614.90	14,140.28	89.68	2,064.86	0.00
<b>C MACHINERY AND EQUIPMENT</b>											
* 156 Automatic bulk water dispensing system		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00
Sub-total			300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00
<b>D IT INFRASTRUCTURE</b>											
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
* 159 Regional Water Supply Master Planning Study	701	D,C	800	0.00	0.00	0.00	21.60	702.40	3.20	72.80	0.00
161 Asset Condition Assessments-Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
162 Asset Condition Assessment/Investigation Large CPP feedermain		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
164 Allowance for acquisition of easements		D,C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
165 Allowance for engineering studies		D,C	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00
166 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
167 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00
168 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
169 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460	0.00	0.00	0.00	39.42	1,281.88	5.84	132.86	0.00
170 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400	0.00	0.00	0.00	10.80	351.20	1.60	36.40	0.00
171 Well interference works		D	1,000	0.00	0.00	0.00	0.00	1,000.00	0.00	0.00	0.00
Sub-total			4,575	0.00	415.00	415.00	71.82	3,335.48	10.64	242.06	500.00

# 2020 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
Total Cost Attribution			89,943	1,120.00	40,334.08	40,334.08	1,329.36	38,398.50	195.64	4,476.22	4,088.70

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

# 2021 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville		D	1,300	0.00	1,300.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
16 R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa		C	750	0.00	750.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
19 Allowance for watermains in conjunction with Regional Roads		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,150	0.00	2,150.00	2,150.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
20A City of Pickering Road Program		D,C	275	0.00	275.00	275.00	0.00	0.00	0.00	0.00	0.00	0.00
20B Town of Ajax Road Program		D,C	197	0.00	197.00	197.00	0.00	0.00	0.00	0.00	0.00	0.00
20C Town of Whitby Road Program		D,C	618	0.00	618.00	618.00	0.00	0.00	0.00	0.00	0.00	0.00
20D City of Oshawa Road Program		D,C	1,095	0.00	1,095.00	1,095.00	0.00	0.00	0.00	0.00	0.00	0.00
20E Municipality of Clarington Road Program		D,C	366	0.00	366.00	366.00	0.00	0.00	0.00	0.00	0.00	0.00
20F Township of Scugog Road Program		D,C	130	0.00	130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00
20G Township of Uxbridge Road Program		D,C	270	0.00	270.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00
20H Township of Brock Road Program		D,C	250	0.00	250.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
20i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,301	0.00	3,301.00	3,301.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 21 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacement</b>												
22 Works independent of road programs in various locations		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Rehabilitation of existing watermains in various locations		D,C	1,600	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
32 Replacement of wm on Centre St. from Dundas St to Arthur St, Whitby		C	765	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	765.00
36 Replacement of wm on Giffard St from Warden Wilson to Hallett, Whitby		D,C	125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.00
Sub-total			3,290	0.00	2,400.00	2,400.00	0.00	0.00	0.00	0.00	0.00	890.00
<b>System Expansion</b>												
* 69 Zone 2 FM on Taunton Rd. from Brock to Harwood Ave., Ajax	108/10	D	1,400	0.00	0.00	0.00	37.80	1,229.20	5.60	127.40	0.00	0.00
* 71 Zone 1 FM on Victoria St. from CNR to Thickson Rd. , Whitby	216	D	15,600	0.00	780.00	780.00	399.36	13,011.96	59.28	1,349.40	0.00	0.00
* 78 Zone 4 FM on Brawley Rd. from Duff Rd. to Ashburn Rd., Whitby		C	4,960	0.00	0.00	0.00	133.92	4,354.88	19.84	451.36	0.00	0.00
* 90 Zone 4 FM on Harmony Rd from Conlin Rd to Z 4 PS, Oshawa	239	D	400	0.00	0.00	0.00	10.80	351.20	1.60	36.40	0.00	0.00
* 95 Zone 1 FM on Baseline Rd. from Prestonvale Rd. to Trulls Rd., C	222	D	200	0.00	0.00	0.00	5.40	175.60	0.80	18.20	0.00	0.00
Sub-total			22,560	0.00	780.00	780.00	587.28	19,122.84	87.12	1,982.76	0.00	0.00

# 2021 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
<b>Other Linear Infrastructure</b>											
111 Replacement of meters		C	1,500	0.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	0.00
* 112 Design - Replacement of Polybutylene service connections		D,C	14,900	0.00	12,876.30	12,876.30	0.00	0.00	0.00	0.00	2,023.70
114 Replacement of valves		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
115 Replacement of hydrants		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
Sub-total			16,700	0.00	14,676.30	14,676.30	0.00	0.00	0.00	0.00	2,023.70
<b>B BUILDINGS</b>											
* 119 Ajax Zone 1 storage facility - 11,360 m <sup>3</sup>	101	D	500	0.00	0.00	0.00	13.50	439.00	2.00	45.50	0.00
* 120 Intake crib chlorine line replacement Ajax and Whitby WSP		D	675	0.00	0.00	0.00	0.00	0.00	0.00	0.00	675.00
* 124 Garrard Rd Reservoir expansion, Whitby	204	D,C	1,500	0.00	0.00	0.00	40.50	1,317.00	6.00	136.50	0.00
* 141 Proposed Orono storage facility, Clarington		D	500	0.00	436.10	436.10	1.75	56.10	0.25	5.80	0.00
* 149 Wellhead protection at Regional well sites		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,975	0.00	1,236.10	1,236.10	55.75	1,812.10	8.25	187.80	675.00
<b>C MACHINERY AND EQUIPMENT</b>											
* 156 Automatic bulk water dispensing system - Phase I		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00
Sub-total			300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00
<b>D IT INFRASTRUCTURE</b>											
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
161 Asset Condition Assessments-Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
162 Asset Condition Assessment/Investigation Large CPP feedermain		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
163 Master Planning energy management		D	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00
164 Allowance for acquisition of easements		D,C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
165 Allowance for engineering studies		D,C	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00
166 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
167 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00
168 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
169 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460	0.00	0.00	0.00	39.42	1,281.88	5.84	132.86	0.00
170 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400	0.00	0.00	0.00	10.80	351.20	1.60	36.40	0.00
171 Well interference works		D	1,000	0.00	0.00	0.00	0.00	1,000.00	0.00	0.00	0.00
Sub-total			3,975	0.00	615.00	615.00	50.22	2,633.08	7.44	169.26	500.00
<b>Total Cost Attribution</b>			<b>56,351</b>	<b>0.00</b>	<b>25,558.40</b>	<b>25,558.40</b>	<b>693.25</b>	<b>23,568.02</b>	<b>102.81</b>	<b>2,339.82</b>	<b>4,088.70</b>

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





# 2022 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)						
					User Revenue			Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D	Commercial Development Charges E				
114 Replacement of valves		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
115 Replacement of hydrants		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
Sub-total			1,800	0.00	1,800.00	1,800.00	0.00	0.00	0.00	0.00	0.00
<b>B BUILDINGS</b>											
* 117 Expansion of Ajax WSP, Ajax	100	C	92,500	51,800.00	0.00	0.00	3,209.75	26,159.00	481.00	10,850.25	0.00
* 120 Intake crib chlorine line replacement Ajax and Whitby WSP		D	1,100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,100.00
127 Taunton Rd Zone 2 Reservoir Expansion, Oshawa	205	D	500	0.00	0.00	0.00	13.50	439.00	2.00	45.50	0.00
* 129 Grandview Zone 2 Pumping Station expansion, Oshawa	211	EA	500	0.00	0.00	0.00	13.50	439.00	2.00	45.50	0.00
* 133 Bowmanville WSP Expansion	300	EA	500	0.00	0.00	0.00	40.00	321.50	5.50	133.00	0.00
* 149 Wellhead protection at Regional well sites		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00
Sub-total			95,900	51,800.00	800.00	800.00	3,276.75	27,358.50	490.50	11,074.25	1,100.00
<b>C MACHINERY AND EQUIPMENT</b>											
* 151 Whitby WSP - Plate Settling Tanks	201	D	100	0.00	84.50	84.50	1.24	9.97	0.17	4.12	0.00
* 152 Installation of stand by power at Whitby WSP, Whitby		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
* 156 Automatic bulk water dispensing system - Phase I		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00
Sub-total			500	0.00	484.50	484.50	1.24	9.97	0.17	4.12	0.00
<b>D IT INFRASTRUCTURE</b>											
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
161 Asset Condition Assessments-Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
162 Asset Condition Assessment/Investigation Large CPP feedermain		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
164 Allowance for acquisition of easements		D,C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
165 Allowance for engineering studies		D,C	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00
166 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
167 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00
168 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
169 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460	0.00	0.00	0.00	39.42	1,281.88	5.84	132.86	0.00
170 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400	0.00	0.00	0.00	10.80	351.20	1.60	36.40	0.00
171 Well interference works		D	1,000	0.00	0.00	0.00	0.00	1,000.00	0.00	0.00	0.00
Sub-total			3,775	0.00	415.00	415.00	50.22	2,633.08	7.44	169.26	500.00
<b>Total Cost Attribution</b>			<b>118,400</b>	<b>51,800.00</b>	<b>10,835.50</b>	<b>10,835.50</b>	<b>3,506.41</b>	<b>35,796.35</b>	<b>524.51</b>	<b>11,848.23</b>	<b>4,088.70</b>

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

# 2023 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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>												
* 13 R.R. 53 (Stevenson Rd.) from Bond St. to Rossland Rd., Oshawa		D	1,200	0.00	1,200.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
19 Allowance for watermains in conjunction with Regional Roads		D,C	1,000	0.00	1,000.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,200	0.00	2,200.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
20A City of Pickering Road Program		D,C	275	0.00	275.00	275.00	0.00	0.00	0.00	0.00	0.00	0.00
20B Town of Ajax Road Program		D,C	197	0.00	197.00	197.00	0.00	0.00	0.00	0.00	0.00	0.00
20C Town of Whitby Road Program		D,C	618	0.00	618.00	618.00	0.00	0.00	0.00	0.00	0.00	0.00
20D City of Oshawa Road Program		D,C	1,095	0.00	1,095.00	1,095.00	0.00	0.00	0.00	0.00	0.00	0.00
20E Municipality of Clarington Road Program		D,C	366	0.00	366.00	366.00	0.00	0.00	0.00	0.00	0.00	0.00
20F Township of Scugog Road Program		D,C	130	0.00	130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00
20G Township of Uxbridge Road Program		D,C	270	0.00	270.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00
20H Township of Brock Road Program		D,C	250	0.00	250.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
20i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,301	0.00	3,301.00	3,301.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 21 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacement</b>												
22 Works independent of road programs in various locations		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Rehabilitation of existing watermains in various locations		D,C	1,600	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
35 Replacement of wm on Maria St from Annes St to Frances St, Whitby		D,C	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	360.00
38 Replacement of wm on Orchard Crt from St Lawrence to W/L, Whitby		D,C	135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135.00
39 Replacement on wm on James St from King St to Centre St, Whitby		D,C	185	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	185.00
43 Replacement of wm on King St from Harmony Rd to Melrose St, Oshawa		C	675	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	675.00
50 Replacement of wm on Valencia Rd. from Oxford to DE, Oshawa		D,C	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	340.00
* 64 Replacement of watermains in various locations		D,C	1,894	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,893.70
Sub-total			5,989	0.00	2,400.00	2,400.00	0.00	0.00	0.00	0.00	0.00	3,588.70
<b>System Expansion</b>												
* 69 Zone 2 FM on Taunton Rd. from Brock Rd to Harwood Ave, Ajax	108/10	D	2,500	0.00	0.00	0.00	67.50	2,195.00	10.00	227.50	0.00	0.00
* 70 Zone 1 on Church St. from Rossland Rd to Taunton Rd., Ajax	219	D	2,900	0.00	0.00	0.00	78.30	2,546.20	11.60	263.90	0.00	0.00
* 72 Zone 1 on Manning from Anderson to Thickson, Whitby	219	C	1,400	0.00	0.00	0.00	37.80	1,229.20	5.60	127.40	0.00	0.00
* 73 Zone 1 West Whitby feedermain from Brock/Victoria St to Rossland Rd.	249	D	520	0.00	75.14	75.14	12.01	390.57	1.77	40.51	0.00	0.00
* 80 WM on Britannia Dr. from Thornton Rd. to Windfields Farm Dr., Oshawa		D	80	0.00	0.00	0.00	2.16	70.24	0.32	7.28	0.00	0.00
* 95 Zone 1 FM on Baseline Rd from Trulls Rd to Prestonvale Rd., CL	222	C	1,550	0.00	0.00	0.00	41.85	1,360.90	6.20	141.05	0.00	0.00
Sub-total			8,950	0.00	75.14	75.14	239.62	7,792.11	35.49	807.64	0.00	0.00

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# 2023 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>Other Linear Infrastructure</b>												
111 Replacement of meters		C	1,500	0.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
114 Replacement of valves		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
115 Replacement of hydrants		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			1,800	0.00	1,800.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>B BUILDINGS</b>												
* 119 Ajax Zone 1 storage facility - 11,360 m <sup>3</sup>	101	C	10,650	0.00	0.00	0.00	287.55	9,350.70	42.60	969.15	0.00	0.00
* 124 Garrard Rd Reservoir expansion, Whitby	204	D,C	14,250	0.00	0.00	0.00	384.75	12,511.50	57.00	1,296.75	0.00	0.00
* 126 Thickson Rd. Zone 3 Pumping Station expansion, Whitby	212	EA	500	0.00	0.00	0.00	13.50	439.00	2.00	45.50	0.00	0.00
* 141 Proposed Orono storage facility, Clarington	314	C	2,500	0.00	2,180.50	2,180.50	8.75	280.50	1.25	29.00	0.00	0.00
* 149 Wellhead protection at Regional well sites		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			28,700	0.00	2,980.50	2,980.50	694.55	22,581.70	102.85	2,340.40	0.00	0.00
<b>C MACHINERY AND EQUIPMENT</b>												
* 151 Whitby WSP - Plate Settling Tanks	201	C	9,300	0.00	7,858.50	7,858.50	115.32	927.21	15.81	383.16	0.00	0.00
* 152 Installation of stand by power at Whitby WSP, Whitby		C	3,000	0.00	3,000.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
* 156 Automatic bulk water dispensing system - Phase I		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			12,600	0.00	11,158.50	11,158.50	115.32	927.21	15.81	383.16	0.00	0.00
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
161 Asset Condition Assessments-Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
162 Asset Condition Assessment/Investigation Large CPP feedermain		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
164 Allowance for acquisition of easements		D,C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
165 Allowance for engineering studies		D,C	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
166 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
167 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
168 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
169 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460	0.00	0.00	0.00	39.42	1,281.88	5.84	132.86	0.00	0.00
170 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400	0.00	0.00	0.00	10.80	351.20	1.60	36.40	0.00	0.00

# 2023 Construction Program - Water Supply

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
171 Well interference works		D	1,000	0.00	0.00	0.00	0.00	1,000.00	0.00	0.00	0.00
Sub-total			3,775	0.00	415.00	415.00	50.22	2,633.08	7.44	169.26	500.00
<b>Total Cost Attribution</b>			<b>67,415</b>	<b>0.00</b>	<b>24,430.14</b>	<b>24,430.14</b>	<b>1,099.71</b>	<b>33,934.10</b>	<b>161.59</b>	<b>3,700.46</b>	<b>4,088.70</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 A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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>												
* 17 R.R. 59 (Gibb St.)/Olive Ave. Interconnection, Oshawa		C	130	0.00	130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00
19 Allowance for watermain in conjunction with Regional Roads		D,C	1,000	0.00	1,000.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			1,130	0.00	1,130.00	1,130.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
20A City of Pickering Road Program		D,C	275	0.00	275.00	275.00	0.00	0.00	0.00	0.00	0.00	0.00
20B Town of Ajax Road Program		D,C	197	0.00	197.00	197.00	0.00	0.00	0.00	0.00	0.00	0.00
20C Town of Whitby Road Program		D,C	618	0.00	618.00	618.00	0.00	0.00	0.00	0.00	0.00	0.00
20D City of Oshawa Road Program		D,C	1,095	0.00	1,095.00	1,095.00	0.00	0.00	0.00	0.00	0.00	0.00
20E Municipality of Clarington Road Program		D,C	366	0.00	366.00	366.00	0.00	0.00	0.00	0.00	0.00	0.00
20F Township of Scugog Road Program		D,C	130	0.00	130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00
20G Township of Uxbridge Road Program		D,C	270	0.00	270.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00
20H Township of Brock Road Program		D,C	250	0.00	250.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
20i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,301	0.00	3,301.00	3,301.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 21 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacement</b>												
22 Works independent of road programs in various locations		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Rehabilitation of existing watermain in various locations		D,C	1,600	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
24 Replacement of wm on Old Forest from Highbush to Rosebank, Pickering		D,C	382	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	382.00
30 Replacement of wm on Mackenzie Ave from Hunt St to Bayly St, Ajax		D,C	540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	540.00
31 Replacement of wm on Dowty Rd from Thomson St to Hunt St, Ajax		D,C	680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	680.00
33 Replacement of wm on Lupin Dr from Hutchinson Ave to Lilac , Whitby		D,C	125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.00
52 Replacement of wm on Ritson Rd. from Valley Dr to Kawartha Ave, Oshawa		D	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50
* 64 Replacement of watermain in various locations		D,C	1,836	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,836.20
Sub-total			5,989	0.00	2,400.00	2,400.00	0.00	0.00	0.00	0.00	0.00	3,588.70
<b>System Expansion</b>												
* 67 Zone 1 FM on Bayly St. from Pickering Beach to Toy, Pickering	104	D	350	73.19	0.00	0.00	7.46	243.04	1.11	25.20	0.00	0.00

## 2024 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
* 69 Zone 2 FM on Taunton Rd. from Brock Rd to Harwood Ave, Ajax	108/10	C	2,750	0.00	0.00	0.00	74.25	2,414.50	11.00	250.25	0.00
* 79 Zone 4 FM on Columbus Rd. from Thickson Rd to Ritson, Oshawa	246	D	3,200	0.00	0.00	0.00	86.40	2,809.60	12.80	291.20	0.00
* 80 WM on Britannia Dr. from Thornton Rd. to Windfields Farm Dr., Oshawa		C	1,440	0.00	0.00	0.00	38.88	1,264.32	5.76	131.04	0.00
* 92 Zone 4 FM on Ritson Rd from Columbus to Winchester, Oshawa	247	D	1,300	0.00	0.00	0.00	35.10	1,141.40	5.20	118.30	0.00
* 93 Zone 4 FM on Winchester Rd from Ritson Rd to Grandview Oshawa	248	D	1,650	0.00	0.00	0.00	44.55	1,448.70	6.60	150.15	0.00
* 104 Zone 2 FM from Z 2 PS to Z 2 reservoir, Bowmanville	309	D	1,100	0.00	0.00	0.00	29.70	965.80	4.40	100.10	0.00
Sub-total			11,790	73.19	0.00	0.00	316.34	10,287.36	46.87	1,066.24	0.00
<b>Other Linear Infrastructure</b>											
111 Replacement of meters		C	1,500	0.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	0.00
114 Replacement of valves		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
115 Replacement of hydrants		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
Sub-total			1,800	0.00	1,800.00	1,800.00	0.00	0.00	0.00	0.00	0.00
<b>B BUILDINGS</b>											
* 126 Thickson Rd. Zone 3 Pumping Station expansion, Whitby	212	D	1,000	0.00	0.00	0.00	27.00	878.00	4.00	91.00	0.00
127 Taunton Rd Zone 2 Reservoir Expansion, Oshawa	205	D	500	0.00	0.00	0.00	13.50	439.00	2.00	45.50	0.00
* 129 Grandview Zone 2 Pumping Station expansion, Oshawa		D	600	0.00	0.00	0.00	16.20	526.80	2.40	54.60	0.00
* 130 Taunton Rd. Pumping Station expansion, Oshawa	213	D	230	0.00	0.00	0.00	6.21	201.94	0.92	20.93	0.00
* 133 Bowmanville WSP Expansion	300	D	1,100	0.00	0.00	0.00	88.00	707.30	12.10	292.60	0.00
* 135 Concession St. WPS expansion, Bowmanville	303	D	310	0.00	0.00	0.00	8.37	272.18	1.24	28.21	0.00
* 136 New Zone 2 PS, Bowmanville	302	D	1,100	0.00	0.00	0.00	29.70	965.80	4.40	100.10	0.00
* 140 Proposed Zone 2 Reservoir, Newcastle	315	EA	500	0.00	0.00	0.00	13.50	439.00	2.00	45.50	0.00
* 149 Wellhead protection at Regional well sites		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00
Sub-total			6,140	0.00	800.00	800.00	202.48	4,430.02	29.06	678.44	0.00
<b>C MACHINERY AND EQUIPMENT</b>											
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>D IT INFRASTRUCTURE</b>											
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
161 Asset Condition Assessments-Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
162 Asset Condition Assessment/Investigation Large CPP feedermain		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
164 Allowance for acquisition of easements		D,C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
165 Allowance for engineering studies		D,C	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00
166 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
167 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00
168 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
169 Allowance for Regional share for works in conjunction with	708	D,C	1,460	0.00	0.00	0.00	39.42	1,281.88	5.84	132.86	0.00

## 2024 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
residential subdivision development												
170 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400	0.00	0.00	0.00	10.80	351.20	1.60	36.40	0.00	
171 Well interference works		D	1,000	0.00	0.00	0.00	0.00	1,000.00	0.00	0.00	0.00	
Sub-total			3,775	0.00	415.00	415.00	50.22	2,633.08	7.44	169.26	500.00	
<b>Total Cost Attribution</b>			<b>34,025</b>	<b>73.19</b>	<b>9,946.00</b>	<b>9,946.00</b>	<b>569.04</b>	<b>17,350.46</b>	<b>83.37</b>	<b>1,913.94</b>	<b>4,088.70</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 A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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		D	350	0.00	350.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00
19 Allowance for watermain in conjunction with Regional Roads		D,C	2,000	0.00	2,000.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,350	0	2,350	2,350	0	0	0	0	0	0
<b>Area Municipality Road Programs</b>												
20A City of Pickering Road Program		D,C	275	0.00	275.00	275.00	0.00	0.00	0.00	0.00	0.00	0.00
20B Town of Ajax Road Program		D,C	197	0.00	197.00	197.00	0.00	0.00	0.00	0.00	0.00	0.00
20C Town of Whitby Road Program		D,C	618	0.00	618.00	618.00	0.00	0.00	0.00	0.00	0.00	0.00
20D City of Oshawa Road Program		D,C	1,095	0.00	1,095.00	1,095.00	0.00	0.00	0.00	0.00	0.00	0.00
20E Municipality of Clarington Road Program		D,C	366	0.00	366.00	366.00	0.00	0.00	0.00	0.00	0.00	0.00
20F Township of Scugog Road Program		D,C	130	0.00	130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00
20G Township of Uxbridge Road Program		D,C	270	0.00	270.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00
20H Township of Brock Road Program		D,C	250	0.00	250.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
20i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,301	0.00	3,301.00	3,301.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 21 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacement</b>												
22 Works independent of road programs in various locations		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Rehabilitation of existing watermain in various locations		D,C	1,600	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
37 Replacement of wm on Mason Dr. from Dunlop St to Dovedale Dr, Whitby		D,C	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	350.00
52 Replacement of wm on Ritson Rd. from Valley Dr to Kawartha Ave, Oshawa		C	704	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	703.50
58 Replacement of wm on Oxford from Malaga Rd to Porter St., Oshawa		D,C	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
60 Replacement of wm on Alma St from Pine St to Gibson St, Port Perry		D,C	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	170.00
61 Replacement of wm on Laidlaw St from Cameron St to Park St, Cannington		D	35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.00
62 Replacement of wm on Cameron St from 375 m E McRae, Cannington		D,C	745	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	745.00
* 64 Replacement of watermain in various locations		D,C	1,285	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,285.20
Sub-total			5,989	0.00	2,400.00	2,400.00	0.00	0.00	0.00	0.00	0.00	3,588.70
<b>System Expansion</b>												
* 100 Zone 1 FM from Bowmanville WSP to Baseline Rd., Bowmanville	305	EA	500	0.00	68.25	68.25	11.65	379.05	1.75	39.30	0.00	0.00
* 101 Zone 1 FM on Baseline Rd. from Wharf St. to Mearns Ave., Bowmanville	306	EA	500	0.00	0.00	0.00	13.50	439.00	2.00	45.50	0.00	0.00
Sub-total			1,000	0.00	68.25	68.25	25.15	818.05	3.75	84.80	0.00	0.00



## 2025 Construction Program - Water Supply

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>Other Linear Infrastructure</b>												
111 Replacement of meters		C	1,500	0.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
114 Replacement of valves		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
115 Replacement of hydrants		C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			1,800	0.00	1,800.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>B BUILDINGS</b>												
* 126 Thickson Rd. Zone 3 Pumping Station expansion, Whitby	212	D	10,000	0.00	0.00	0.00	270.00	8,780.00	40.00	910.00	0.00	0.00
127 Taunton Rd Zone 2 Reservoir Expansion, Oshawa	205	D	10,850	0.00	0.00	0.00	292.95	9,526.30	43.40	987.35	0.00	0.00
* 131 Harmony Rd. reservoir expansion, Oshawa	206	EA	510	0.00	0.00	0.00	13.77	447.78	2.04	46.41	0.00	0.00
* 148 New water storage facility, Brock		EA	500	0.00	0.00	0.00	13.50	439.00	2.00	45.50	0.00	0.00
* 149 Wellhead protection at Regional well sites		D,C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			22,660	0.00	800.00	800.00	590.22	19,193.08	87.44	1,989.26	0.00	0.00
<b>C MACHINERY AND EQUIPMENT</b>												
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
161 Asset Condition Assessments-Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
162 Asset Condition Assessment/Investigation Large CPP feedermain		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
164 Allowance for acquisition of easements		D,C	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
165 Allowance for engineering studies		D,C	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
166 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
167 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
168 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
169 Allowance for Regional share for works in conjunction with residential subdivision development	708	D,C	1,460	0.00	0.00	0.00	39.42	1,281.88	5.84	132.86	0.00	0.00
170 Allowance for Regional share for works in conjunction with non-residential development	706	D,C	400	0.00	0.00	0.00	10.80	351.20	1.60	36.40	0.00	0.00
171 Well interference works		D	1,000	0.00	0.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00
Sub-total			3,775	0.00	415.00	415.00	50.22	2,633.08	7.44	169.26	0.00	500.00
<b>Total Cost Attribution</b>			<b>40,975</b>	<b>0.00</b>	<b>11,234.25</b>	<b>11,234.25</b>	<b>665.59</b>	<b>22,644.21</b>	<b>98.63</b>	<b>2,243.32</b>	<b>4,088.70</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. 1</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 2 (Simcoe St.) from Rossland Rd. to Robert St., Oshawa</p> <p>Project No. R1006</p>
<p><b>RELATED PROJECTS</b></p> <p>2010 Water Supply Capital Budget Item No. 4</p> <p>2012 Water Supply Capital Budget Item No. 2</p> <p>2014 Water Supply Capital Budget Item No. 1</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	155.000						155.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	852.000	100.000					952.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	1,007.000	100.000	0.000	0.000	0.000	0.000	1,107.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES	1,007.000	100.000					1,107.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	1,007.000	100.000	0.000	0.000	0.000	0.000	1,107.000


NEED/EXPLANATION OF PROJECT

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<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 3</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 16 (Ritson Rd.) from Maine St. to Given Rd., Oshawa</p> <p>Project No. R1510</p>
<b>RELATED PROJECTS</b>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	20.000	55.100					75.100
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		454.900					454.900
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	20.000	510.000	0.000	0.000	0.000	0.000	530.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES	20.000	510.000					530.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	20.000	510.000	0.000	0.000	0.000	0.000	530.000

NEED/EXPLANATION OF PROJECT
Watermain limits: Main St. to Britannia Ave.

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 4</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 17 (Main St.) from Mill St. to Taunton Rd., Orono</p> <p>Project No. R1511</p>
<b>RELATED PROJECTS</b>
<p><i>Municipality of Clarington (Orono)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		100.000	75.000				175.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			1,095.000				1,095.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	100.000	1,170.000	0.000	0.000	0.000	1,270.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		100.000	1,170.000				1,270.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	100.000	1,170.000	0.000	0.000	0.000	1,270.000

NEED/EXPLANATION OF PROJECT

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 6</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 22 (Victoria St.) from South Blair St. to east of Thickson Rd., Whitby (realignment)</p> <p>Project No.:T4011</p>
<b>RELATED PROJECTS</b>
<p><i>Town of Whitby</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		178.000					178.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		72.000		1,050.000			1,122.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	250.000	0.000	1,050.000	0.000	0.000	1,300.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		250.000		1,050.000			1,300.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	250.000	0.000	1,050.000	0.000	0.000	1,300.000

NEED/EXPLANATION OF PROJECT

**PROJECT LOCATION & DESCRIPTION**

**ITEM NO. 7**

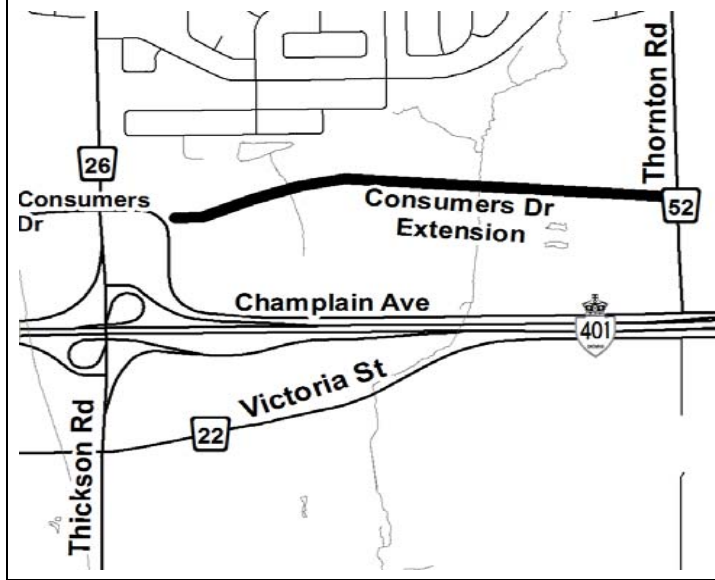
REGIONAL ROAD PROGRAM

R.R. 25 (Consumers Dr.) extension from east of Thickson Rd. to Thornton Rd., Whitby/Oshawa

Project No. R1320

**RELATED PROJECTS**

*Town of Whitby/ City of Oshawa*



**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

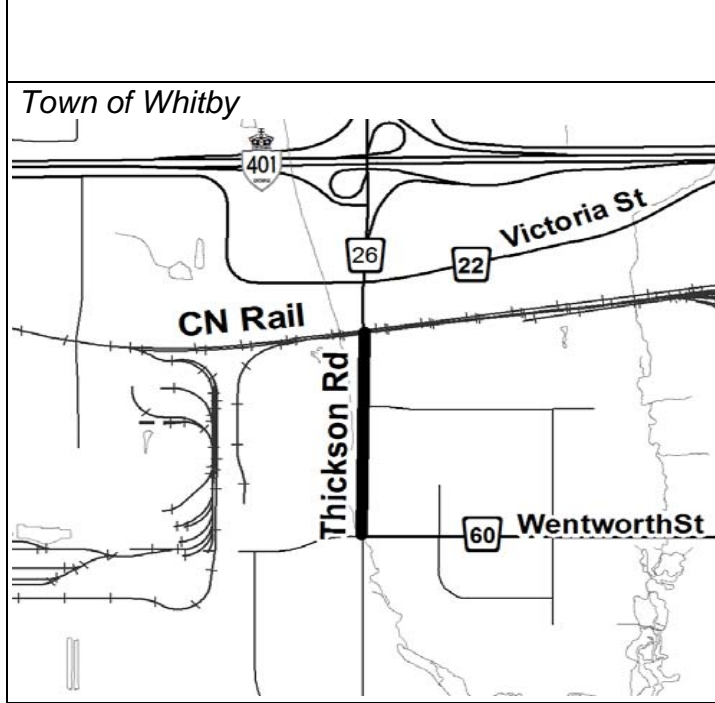
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	32.900		140.000				172.900
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		250.000	900.000				1,150.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	32.900	250.000	1,040.000	0.000	0.000	0.000	1,322.900
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES	32.900	250.000	1,040.000				1,322.900
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	32.900	250.000	1,040.000	0.000	0.000	0.000	1,322.900

**NEED/EXPLANATION OF PROJECT**

**PROJECT LOCATION & DESCRIPTION**

**ITEM NO. 8**  
REGIONAL ROAD PROGRAM  
 R.R. 26 (Thickson Rd.) from Wentworth St. to C.N.R. bridge, Whitby  
 Project No. R0710

**RELATED PROJECTS**



**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		25.000					25.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION				170.000			170.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	25.000	0.000	170.000	0.000	0.000	195.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		25.000		170.000			195.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	25.000	0.000	170.000	0.000	0.000	195.000

**NEED/EXPLANATION OF PROJECT**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 12</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 52 (Thornton Rd.) from Champlain Ave. to Consumers Dr., Oshawa</p> <p>Project No. R1407</p>
<b>RELATED PROJECTS</b>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.00
ENGINEERING		14.00					14.00
LAND ACQUISITION							0.00
UTILITY RELOCATION							0.00
CONSTRUCTION		86.00					86.00
CONTINGENCY							0.00
OTHER							0.00
<b>TOTAL EXPENDITURES</b>	0.00	100.00	0.00	0.00	0.00	0.00	100.00
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.00
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.00
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.00
USER REVENUES		100.00					100.00
DEBENTURES							0.00
OTHER							0.00
<b>TOTAL ATTRIBUTION</b>	0.00	100.00	0.00	0.00	0.00	0.00	100.00

NEED/EXPLANATION OF PROJECT



PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 20A</b></p> <p><b>Area Municipality Road Programs</b>                      CITY OF PICKERING ROAD PROGRAM                      (0 Projects)</p> <p>Refer to Construction of Municipal Services summary                      for list of streets                      Project No.: -</p>
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Capital Budget Item No. 14A
No Works proposed in 2016

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING			39.200	39.200	39.200	39.200	156.800
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			235.800	235.800	235.800	235.800	943.200
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	0.000	275.000	275.000	275.000	275.000	1,100.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES			275.000	275.000	275.000	275.000	1,100.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	0.000	275.000	275.000	275.000	275.000	1,100.000

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

REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL

WATER SUPPLY SYSTEM

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 20B</b></p> <p><u>Area Municipality Road Programs</u> TOWN OF AJAX ROAD PROGRAM (6 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets Project No.: A1699</p>
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Capital Budget Item No. 14B

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		35.000	30.000	30.000	30.000	30.000	155.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		195.000	167.000	167.000	167.000	167.000	863.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	230.000	197.000	197.000	197.000	197.000	1,018.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		230.000	197.000	197.000	197.000	197.000	1,018.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	230.000	197.000	197.000	197.000	197.000	1,018.000

NEED/EXPLANATION OF PROJECT
Replacement of deficient watermains and/or construction of new works in conjunction with road reconstruction proposed by the Town of Ajax

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 20C</b></p> <p><b>Area Municipality Road Programs</b>                      TOWN OF WHITBY ROAD PROGRAM                      (4 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets                      Project No.: W1699</p>
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Capital Budget Item No. 14C

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		207.800	83.500	83.500	83.500	83.500	541.800
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		1,122.200	534.500	534.500	534.500	534.500	3,260.200
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	1,330.000	618.000	618.000	618.000	618.000	3,802.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		1,330.000	618.000	618.000	618.000	618.000	3,802.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	1,330.000	618.000	618.000	618.000	618.000	3,802.000

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

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 20D</b></p> <p><b>Area Municipality Road Programs</b>                      CITY OF OSHAWA ROAD PROGRAM                      (12 Projects)</p> <p>Refer to Construction of Municipal Services summary                      for list of streets                      Project No.: O1699</p>
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Capital Budget Item No. 14D

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		110.000	160.000	160.000	160.000	160.000	750.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		840.000	935.000	935.000	935.000	935.000	4,580.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	950.000	1,095.000	1,095.000	1,095.000	1,095.000	5,330.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		950.000	1,095.000	1,095.000	1,095.000	1,095.000	5,330.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	950.000	1,095.000	1,095.000	1,095.000	1,095.000	5,330.000

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

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 20E</b></p> <p><b>Area Municipality Road Programs</b>                      MUNICIPALITY OF CLARINGTON ROAD PROGRAM                      (5 Projects)</p> <p>Refer to Construction of Municipal Services summary                      for list of streets                      Project No.: C1699</p>
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Capital Budget Item No. 14E

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		250.000	44.400	44.400	44.400	44.400	427.600
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		1,345.000	321.600	321.600	321.600	321.600	2,631.400
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	1,595.000	366.000	366.000	366.000	366.000	3,059.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		1,595.000	366.000	366.000	366.000	366.000	3,059.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	1,595.000	366.000	366.000	366.000	366.000	3,059.000

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

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 20F</b></p> <p><b>Area Municipality Road Programs</b>                      TOWNSHIP OF SCUGOG ROAD PROGRAM                      ( 0 Projects)</p> <p>Refer to Construction of Municipal Services summary                      for list of streets                      Project No.: -</p>
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Capital Budget Item No. 14F
No Works proposed in 2016

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING			17.200	17.200	17.200	17.200	68.800
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			112.800	112.800	112.800	112.800	451.200
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	0.000	130.000	130.000	130.000	130.000	520.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES			130.000	130.000	130.000	130.000	520.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	0.000	130.000	130.000	130.000	130.000	520.000

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

REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL

WATER SUPPLY SYSTEM

PROJECT LOCATION & DESCRIPTION	BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
<p><b>ITEM NO. 20G</b>  <b>Area Municipality Road Programs</b>                      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 2016	2016 CAPITAL BUDGET	Four Year Forecast				
<b>RELATED PROJECTS</b>				2017	2018	2019	2020	TOTAL
2016 Sanitary Sewerage Capital Budget Item No. 14G	<b>EXPENDITURES:</b>							
No Works proposed in 2016	ENVIRONMENTAL ASSESSMENT							0.000
	ENGINEERING			38.600	38.600	38.600	38.600	154.400
	LAND ACQUISITION							0.000
	UTILITY RELOCATION							0.000
	CONSTRUCTION			231.400	231.400	231.400	231.400	925.600
	CONTINGENCY							0.000
	OTHER							0.000
	<b>TOTAL EXPENDITURES</b>	0.000	0.000	270.000	270.000	270.000	270.000	1,080.000
	<b>ATTRIBUTION:</b>							
	SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000	
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000	
USER REVENUES		0.000	270.000	270.000	270.000	270.000	1,080.000	
DEBENTURES							0.000	
OTHER							0.000	
<b>TOTAL ATTRIBUTION</b>	0.000	0.000	270.000	270.000	270.000	270.000	1,080.000	

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

REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL

WATER SUPPLY SYSTEM

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 20H</b></p> <p><b>Area Municipality Road Programs</b>                      TOWNSHIP OF BROCK ROAD PROGRAM                      (1 Project)</p> <p>Refer to Construction of Municipal Services summary                      for list of streets                      Project No.:K1699</p>
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Capital Budget Item No. 14H

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		92.000	37.500	37.500	37.500	37.500	242.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		768.000	212.500	212.500	212.500	212.500	1,618.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	860.000	250.000	250.000	250.000	250.000	1,860.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		860.000	250.000	250.000	250.000	250.000	1,860.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	860.000	250.000	250.000	250.000	250.000	1,860.000

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



PROJECT LOCATION & DESCRIPTION
<b>ITEM NO. 20i</b> <b>Area Municipality Road Programs</b> ALLOWANCE FOR UNKNOWN REQUIREMENTS IN CONJUNCTION WITH AREA MUNICIPALITY ROAD PROGRAMS  Project No.: M1603
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Capital Budget Item No. 14i

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		10.000	16.000	16.000	16.000	16.000	74.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		90.000	84.000	84.000	84.000	84.000	426.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		100.000	100.000	100.000	100.000	100.000	500.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000

NEED/EXPLANATION OF PROJECT
This allowance is to provide for unanticipated watermain works in conjunction with area municipality road programs in various locations (Items 20A to 20H)

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 22</b> <b>BETTERMENTS/ REPLACEMENTS</b> Works to rectify identified system deficiencies independent of road programs in various locations (5 Projects)
Project No. M1699
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Capital Budget Item No. 17

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		50.000	80.200	80.200	98.000	134.000	442.400
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		250.000	594.800	594.800	620.000	620.000	2,679.600
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	300.000	675.000	675.000	718.000	754.000	3,122.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		300.000	675.000	675.000	718.000	754.000	3,122.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	300.000	675.000	675.000	718.000	754.000	3,122.000

<b>NEED/EXPLANATION OF PROJECT</b>
Provision for replacement and/or rehabilitation of deficient water mains independent of road programs in various locations.

PROJECT LOCATION & DESCRIPTION
<b>ITEM NO. 23</b> <b>BETTERMENTS/ REPLACEMENTS</b> Rehabilitation of existing watermains in various locations  Project No. D1612
<b>RELATED PROJECTS</b>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		155.500	229.600	229.600	229.600	229.600	1,073.900
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		923.980	1,370.400	1,370.400	1,370.400	1,370.400	6,405.580
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	1,079.480	1,600.000	1,600.000	1,600.000	1,600.000	7,479.480
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		1,079.480	1,600.000	1,600.000	1,600.000	1,600.000	7,479.480
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	1,079.480	1,600.000	1,600.000	1,600.000	1,600.000	7,479.480

NEED/EXPLANATION OF PROJECT
Rehabilitation (cement mortar lining) of watermains in various locations.

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 40</b></p> <p><b><u>BETTERMENTS/ REPLACEMENTS</u></b></p> <p>Replacement of watermain on McQuay Blvd. from Brookdale Crescent to Brookdale Crescent, Whitby</p> <p>Project No. W1601</p>
<b>RELATED PROJECTS</b>
<p><i>Town of Whitby</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		45.000					45.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		275.000					275.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	320.000	0.000	0.000	0.000	0.000	320.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER - AMRF		320.000					320.000
<b>TOTAL ATTRIBUTION</b>	0.000	320.000	0.000	0.000	0.000	0.000	320.000

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

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p>ITEM NO. 44</p> <p><b>BETTERMENTS/ REPLACEMENTS</b></p> <p>Replacement of a watermain on Lanark Dr. from Annapolis Avenue to Waverly Street, Oshawa</p> <p>Project No. O1603</p>
<b>RELATED PROJECTS</b>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		85.000					85.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		495.000					495.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	580.000	0.000	0.000	0.000	0.000	580.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER - AMRF		580.000					580.000
<b>TOTAL ATTRIBUTION</b>	0.000	580.000	0.000	0.000	0.000	0.000	580.000

NEED/EXPLANATION OF PROJECT
Asset Management Project - Watermain has reached the end of its useful service life.

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 45</b></p> <p><b><u>BETTERMENTS/ REPLACEMENTS</u></b></p> <p>Replacement of watermain on Harcourt Drive from Florell Drive to deadend, Oshawa</p> <p>Project No. O1604</p>
<b>RELATED PROJECTS</b>
<p><i>City of Oshawa</i></p>

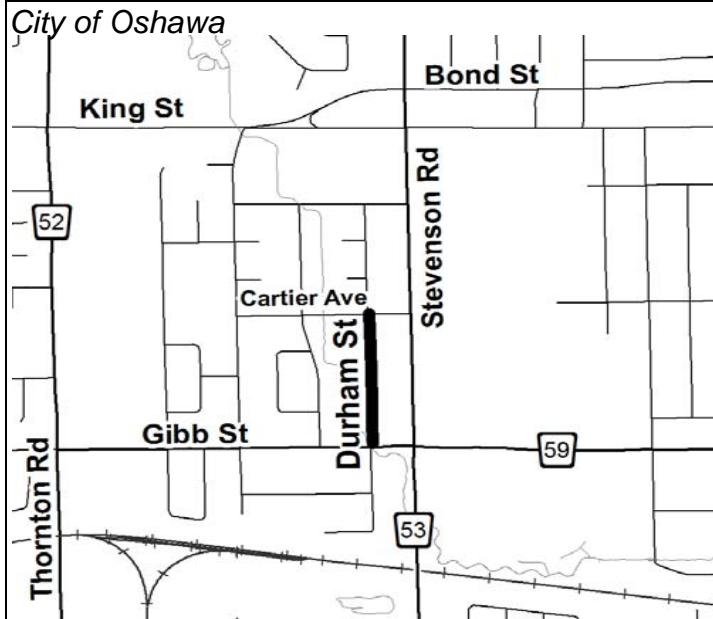
BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		57.000					57.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		43.000	300.000				343.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	100.000	300.000	0.000	0.000	0.000	400.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER - AMRF		100.000	300.000				400.000
<b>TOTAL ATTRIBUTION</b>	0.000	100.000	300.000	0.000	0.000	0.000	400.000

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

**PROJECT LOCATION & DESCRIPTION**

ITEM NO. 49  
**BETTERMENTS/ REPLACEMENTS**  
 Replacement of a watermain on Durham Street from Gibb Steet to Cartier Avenue, Oshawa  
 Project No. O1605

**RELATED PROJECTS**



**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		80.000					80.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		490.000					490.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	570.000	0.000	0.000	0.000	0.000	570.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER - AMRF		570.000					570.000
<b>TOTAL ATTRIBUTION</b>	0.000	570.000	0.000	0.000	0.000	0.000	570.000

**NEED/EXPLANATION OF PROJECT**

Asset Management Project - Watermain has reached the end of its useful service life.

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 53</b></p> <p><b>BETTERMENTS/ REPLACEMENTS</b></p> <p>Replacement of watermain on Centre Street from King Street West to Brock Street West, Oshawa</p> <p>Project No. O1503</p>
<p><b>RELATED PROJECTS</b></p> <p>2015 Sanitary Sewerage Capital Budget Item No. 27</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		120.000					120.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION				770.000			770.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	120.000	0.000	770.000	0.000	0.000	890.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER - AMRF		120.000		770.000			890.000
<b>TOTAL ATTRIBUTION</b>	0.000	120.000	0.000	770.000	0.000	0.000	890.000

NEED/EXPLANATION OF PROJECT
Asset Management Project - Watermain has reached the end of its useful service life.

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<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 54</b></p> <p><b>BETTERMENTS/ REPLACEMENTS</b></p> <p>Replacement of a watermain on Hillside Ave. from Seville St. to Lisbon Ct., Oshawa</p> <p>Project No. O1606</p>
<b>RELATED PROJECTS</b>
<p><i>City of Oshawa</i></p>

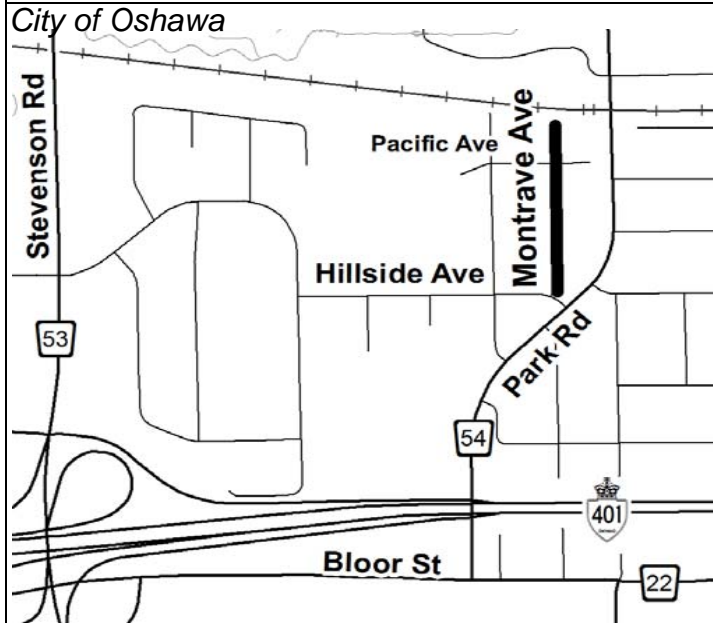
BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		16.500					16.500
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		98.500					98.500
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	115.000	0.000	0.000	0.000	0.000	115.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER - AMRF		115.000					115.000
<b>TOTAL ATTRIBUTION</b>	0.000	115.000	0.000	0.000	0.000	0.000	115.000

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

**PROJECT LOCATION & DESCRIPTION**

ITEM NO. 55  
**BETTERMENTS/ REPLACEMENTS**  
 Replacement of a watermain on Montgrave Ave. from Hillside Ave. to 49 metres North of Pacific Ave., Oshawa  
 Project No. O1601

**RELATED PROJECTS**



**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		18.000					18.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		107.000					107.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	125.000	0.000	0.000	0.000	0.000	125.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER - AMRF		125.000					125.000
<b>TOTAL ATTRIBUTION</b>	0.000	125.000	0.000	0.000	0.000	0.000	125.000

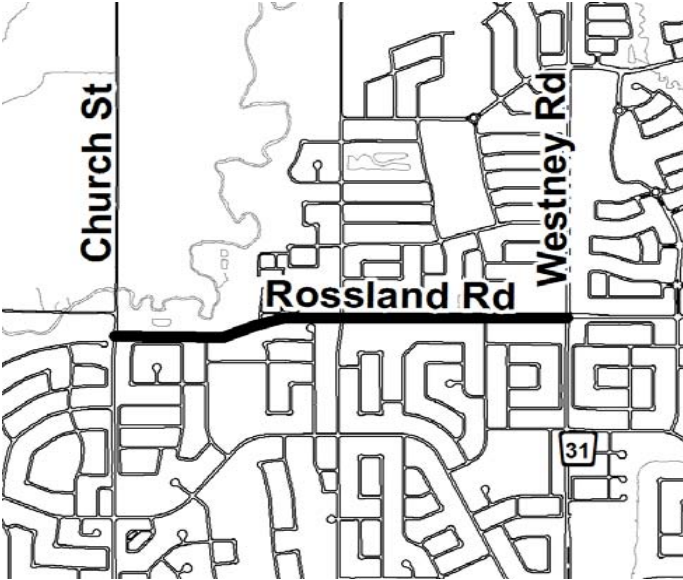
**NEED/EXPLANATION OF PROJECT**

Asset Management Project - Watermain has reached the end of its useful service life.

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 59</b></p> <p><b>BETTERMENTS/ REPLACEMENTS</b></p> <p>Replacement of a watermain on North St. from Grady St. to Concession Rd. 3, Newcastle</p> <p>Project No. C1601</p>
<p><b>RELATED PROJECTS</b></p> <p>2016 Sanitary Sewerage Capital Budget Item No. 69</p>
<p><i>Municipality of Clarington (Newcastle)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		50.000	40.000		60.000	150.200	300.200
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		0.000	840.000			989.800	1,829.800
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	50.000	880.000	0.000	60.000	1,140.000	2,130.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		50.000	880.000		60.000	1,140.000	2,130.000
DEBENTURES							0.000
OTHER - AMRF							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	50.000	880.000	0.000	60.000	1,140.000	2,130.000

NEED/EXPLANATION OF PROJECT
<p>Asset Management Project - Watermain has reached the end of its useful service life.</p> <p>Phase 1: Grady St. to North of C.P.R.</p> <p>Phase 2: North of C.P.R. to Concession Rd. 3</p>

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 66</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Zone 1 feedermain on Rossland Rd. from Church St. to Westney Rd., Ajax</p> <p>Project No. D1522</p>
<b>RELATED PROJECTS</b>
<p><i>Town of Ajax</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		100.000		747.900			847.900
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		0.000		4,902.100			4,902.100
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	100.000	0.000	5,650.000	0.000	0.000	5,750.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		56.750		3,206.380			3,263.130
NEW COMMERCIAL DEVELOPMENT CHARGES*		1.740		98.310			100.050
USER REVENUES		6.150		347.470			353.620
DEBENTURES							0.000
OTHER		35.360		1,997.840			2,033.200
<b>TOTAL ATTRIBUTION</b>	0.000	100.000	0.000	5,650.000	0.000	0.000	5,750.000

<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><b>ITEM NO. 80</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Watermain on Britannia Dr. from Thornton Rd. to Windfields Farm Dr., Oshawa</p> <p>Project No. D1614</p>
<b>RELATED PROJECTS</b>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		80.000					80.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION							0.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	80.000	0.000	0.000	0.000	0.000	80.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		70.240					70.240
NEW COMMERCIAL DEVELOPMENT CHARGES*		2.160					2.160
USER REVENUES		7.600					7.600
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	80.000	0.000	0.000	0.000	0.000	80.000

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

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 82</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Watermain on Thornton Rd. from 500 m North of Taunton Rd. to Conlin Rd., Oshawa</p> <p>Project No. D1525</p>
RELATED PROJECTS
<p>The map shows the project location in Oshawa. It features a grid of roads: Thickson Rd N (marked with 26), Thornton Rd N (marked with 52), Conlin Rd, and Taunton Rd (marked with 4). The project area is highlighted along Thornton Rd N between Conlin Rd and Taunton Rd.</p>

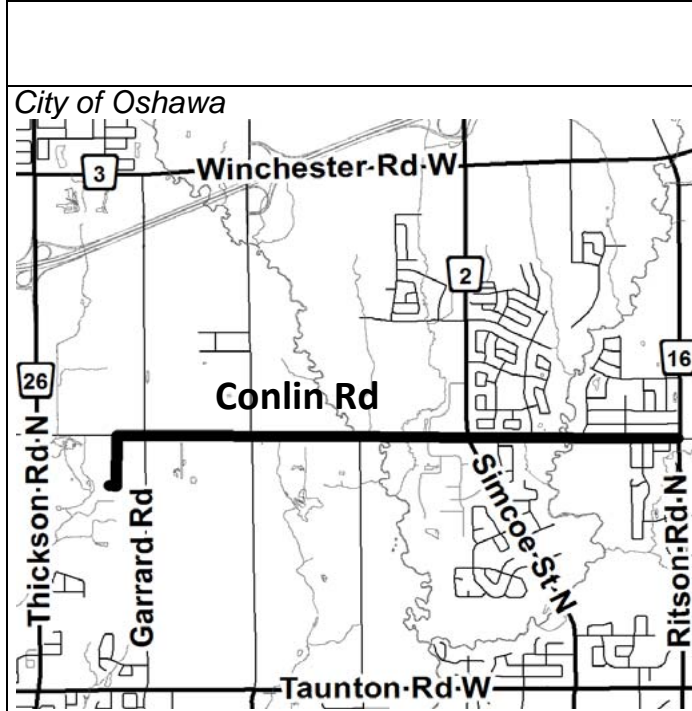
BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	30.000	300.000					330.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		1,800.000					1,800.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	30.000	2,100.000	0.000	0.000	0.000	0.000	2,130.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	26.340						26.340
NEW COMMERCIAL DEVELOPMENT CHARGES*	0.810						0.810
USER REVENUES	2.850	2,100.000					2,102.850
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	30.000	2,100.000	0.000	0.000	0.000	0.000	2,130.000

NEED/EXPLANATION OF PROJECT
<p>In conjunction with the City of Oshawa's road reconstruction.</p>

**PROJECT LOCATION & DESCRIPTION**

ITEM NO. 85  
 SYSTEM EXPANSION  
 Zone 3 feedermain on Conlin Rd. from Garrard Rd. Zone 3 SSPS to Ritson Rd., Oshawa  
 Project No. D1602

**RELATED PROJECTS**

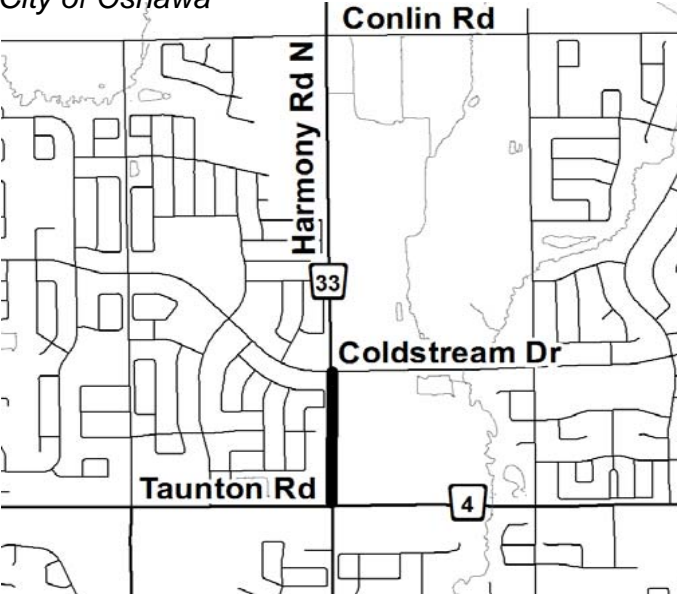


**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		100.000	2,300.000				2,400.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION				14,000.000			14,000.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	100.000	2,300.000	14,000.000	0.000	0.000	16,400.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		87.800	2,019.400	12,292.000			14,399.200
NEW COMMERCIAL DEVELOPMENT CHARGES*		2.700	62.100	378.000			442.800
USER REVENUES		9.500	218.500	1,330.000			1,558.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	100.000	2,300.000	14,000.000	0.000	0.000	16,400.000

**NEED/EXPLANATION OF PROJECT**

Construction of feedermain to service new development.  
 Timing of construction dependent on rate of development.

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 87</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Zone 3 feedermain on Harmony Rd. from Taunton Rd. to 400 m south of Conlin Rd., Oshawa                      Phase 1: Taunton Rd. to Coldstream Dr., Oshawa                      Project No. O1201</p>
<p><b>RELATED PROJECTS</b></p> <p>2012 Water Supply Capital Budget Item No. 57                      2015 Water Supply Capital Budget Item No. 92</p>
<p><i>City of Oshawa</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	369.500						369.500
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	1,880.500	300.000					2,180.500
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	2,250.000	300.000	0.000	0.000	0.000	0.000	2,550.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	1,983.300	263.400					2,246.700
NEW COMMERCIAL DEVELOPMENT CHARGES*	62.000	8.100					70.100
USER REVENUES	204.700	28.500					233.200
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	2,250.000	300.000	0.000	0.000	0.000	0.000	2,550.000

NEED/EXPLANATION OF PROJECT
<p>Construction being coordinated with the Transportation department.</p>



PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 88</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Zone 3 feedermain on Harmony Rd. from Taunton Rd. to 400 m south of Conlin Rd., Oshawa                      Phase 2: Coldstream Dr. to 400 m South of Conlin Rd.                      Project No. D1604</p>
RELATED PROJECTS
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		60.000			280.000		340.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION					2,020.000		2,020.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	60.000	0.000	0.000	2,300.000	0.000	2,360.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		52.680			2,019.400		2,072.080
NEW COMMERCIAL DEVELOPMENT CHARGES*		1.620			62.100		63.720
USER REVENUES		5.700			218.500		224.200
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	60.000	0.000	0.000	2,300.000	0.000	2,360.000

**NEED/EXPLANATION OF PROJECT**

Construction being coordinated with the Transportation department.

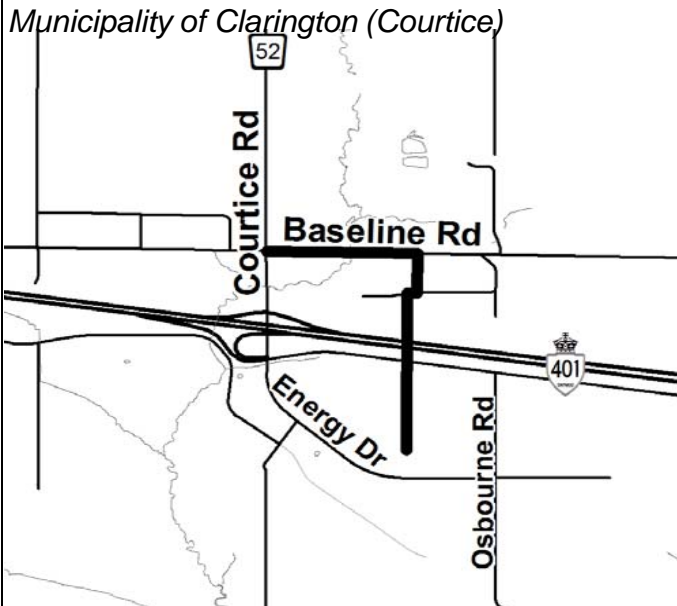
**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 89</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Zone 4 feedermain on Harmony Rd. from Greenhill Ave. to 400 m south of Conlin Rd., Oshawa</p> <p>Project No. D1615</p>
RELATED PROJECTS
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		60.000					60.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION					600.000		600.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	60.000	0.000	0.000	600.000	0.000	660.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		52.680			526.800		579.480
NEW COMMERCIAL DEVELOPMENT CHARGES*		1.620			16.200		17.820
USER REVENUES		5.700			57.000		62.700
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	60.000	0.000	0.000	600.000	0.000	660.000

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

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 94</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Courtice - Zone 1 feedermain, Clarington                      Phase 2 - 100 m North of Energy Dr to the intersection of Baseline Rd. and Courtice Rd. - construction in 2016                      Project No. D1303</p>
<b>RELATED PROJECTS</b>
2013 Water Supply Capital Budget Item No.: 61 2014 Water Supply Capital Budget Item No.: 83
<p><i>Municipality of Clarington (Courtice)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	570.000	600.000					1,170.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	480.000	3,200.000		3,800.000			7,480.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	1,050.000	3,800.000	0.000	3,800.000	0.000	0.000	8,650.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	878.000	3,336.400		3,336.400			7,550.800
NEW COMMERCIAL DEVELOPMENT CHARGES*	27.000	102.600		102.600			232.200
USER REVENUES	145.000	361.000		361.000			867.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	1,050.000	3,800.000	0.000	3,800.000	0.000	0.000	8,650.000

NEED/EXPLANATION OF PROJECT
Project to be coordinated with the Courtice Trunk Sanitary Sewer. Project will be completed in phases. Phase 1: 400 m South of Energy Dr. to 100 m North of Energy Dr. - completed Phase 2: 100 m North of Energy Dr. to the intersection of Baseline Rd. and Courtice Rd. Phase 3 : Baseline Rd. from Courtice Rd. to Trulls Rd. and Trulls Rd. from Baseline Rd. to Bloor St.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 98</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Zone 1 feedermain on Lambs Rd. from Hwy No. 2 (King St.) to Zone 1 Liberty Street Reservoir</p> <p>Project No. C1202</p>
<b>RELATED PROJECTS</b>
<p>2012 Water Supply Capital Budget Item No.60 2015 Water Supply Capital Budget Item No.101</p> <p><i>Municipality of Clarington (Bowmanville)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	3,820.500						3,820.500
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	9,119.970	2,059.535	11,250.000				22,429.505
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	12,940.470	2,059.535	11,250.000	0.000	0.000	0.000	26,250.005
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	11,421.940	1,763.561	9,877.500				23,063.001
NEW COMMERCIAL DEVELOPMENT CHARGES*	350.930	56.571	303.750				711.251
USER REVENUES	1,167.600	239.403	1,068.750				2,475.753
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	12,940.470	2,059.535	11,250.000	0.000	0.000	0.000	26,250.005

NEED/EXPLANATION OF PROJECT
<p>Required to accommodate new development. Construction to be completed in conjunction with Liberty St. Zone 1 Reservoir. Feedermain will be completed in phases. Phase I: Hwy No. 2 to Third Concession Rd. Phase II: Third Concession Rd. to Zone 1 Reservoir</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 108</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Zone 2 feedermain on Arthur St. from the Zone 2 pumping station to 650 m south, Newcastle</p> <p>Project No. D1605</p>
RELATED PROJECTS
<p><i>Municipality of Clarington (Newcastle)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		180.000					180.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		120.000	1,000.000				1,120.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	300.000	1,000.000	0.000	0.000	0.000	1,300.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		263.400	878.000				1,141.400
NEW COMMERCIAL DEVELOPMENT CHARGES*		8.100	27.000				35.100
USER REVENUES		28.500	95.000				123.500
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	300.000	1,000.000	0.000	0.000	0.000	1,300.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 109</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Feedermain on Scugog Line 3 from Old Simcoe Rd. to Simcoe St., Scugog</p> <p>Project No. D1607</p>
RELATED PROJECTS
<p><i>Township of Scugog (Port Perry)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		216.000					216.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		84.000	1,250.000				1,334.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	300.000	1,250.000	0.000	0.000	0.000	1,550.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		38.580	160.750				199.330
NEW COMMERCIAL DEVELOPMENT CHARGES*		1.188	4.950				6.138
USER REVENUES		260.232	1,084.300				1,344.532
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	300.000	1,250.000	0.000	0.000	0.000	1,550.000

NEED/EXPLANATION OF PROJECT
<p>Construction of feedermain to service existing system and new development. Construction subject to Port Perry Water Supply EA.</p>

PROJECT LOCATION & DESCRIPTION
ITEM NO. 111
<u>OTHER LINEAR INFRASTRUCTURE</u>
Replacement of meters
Project No. D1606
<b>RELATED PROJECTS</b>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING							0.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		3,100.000	1,500.000	1,500.000	1,500.000	1,500.000	9,100.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	3,100.000	1,500.000	1,500.000	1,500.000	1,500.000	9,100.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		3,100.000	1,500.000	1,500.000	1,500.000	1,500.000	9,100.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	3,100.000	1,500.000	1,500.000	1,500.000	1,500.000	9,100.000

NEED/EXPLANATION OF PROJECT

REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL

WATER SUPPLY SYSTEM

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 112</p> <p>OTHER LINEAR INFRASTRUCTURE</p> <p>Design - Replacement of polybutylene service connections in various locations</p> <p>Project No. D1699</p>
<b>RELATED PROJECTS</b>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		1,600.000	1,600.000	1,800.000	1,960.000	2,100.000	9,060.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		11,100.000	11,300.000	11,500.000	11,640.000	11,700.000	57,240.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	12,700.000	12,900.000	13,300.000	13,600.000	13,800.000	66,300.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		11,121.300	11,411.300	11,444.300	12,336.300	12,563.300	58,876.500
DEBENTURES							0.000
OTHER - AMRF		1,578.700	1,488.700	1,855.700	1,263.700	1,236.700	7,423.500
<b>TOTAL ATTRIBUTION</b>	0.000	12,700.000	12,900.000	13,300.000	13,600.000	13,800.000	66,300.000

NEED/EXPLANATION OF PROJECT



PROJECT LOCATION & DESCRIPTION
<b>ITEM NO. 113</b> OTHER LINEAR INFRASTRUCTURE Depot - Replacement of polybutylene service connections in various locations Project No. M1625
<b>RELATED PROJECTS</b>

**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING							0.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		1,800.000	1,600.000	1,400.000	1,200.000	1,000.000	7,000.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	1,800.000	1,600.000	1,400.000	1,200.000	1,000.000	7,000.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		1,800.000	1,600.000	1,400.000	1,200.000	1,000.000	7,000.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	1,800.000	1,600.000	1,400.000	1,200.000	1,000.000	7,000.000

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 114</p> <p>OTHER LINEAR INFRASTRUCTURE</p> <p>Replacement of valves</p> <p>Project No. M1626</p>
<b>RELATED PROJECTS</b>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING							0.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		150.000	150.000	150.000	150.000	150.000	750.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	150.000	150.000	150.000	150.000	150.000	750.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		150.000	150.000	150.000	150.000	150.000	750.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	150.000	150.000	150.000	150.000	150.000	750.000

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<b>ITEM NO. 115</b> <u>OTHER LINEAR INFRASTRUCTURE</u> Replacement of hydrant  Project No. M1627
<b>RELATED PROJECTS</b>

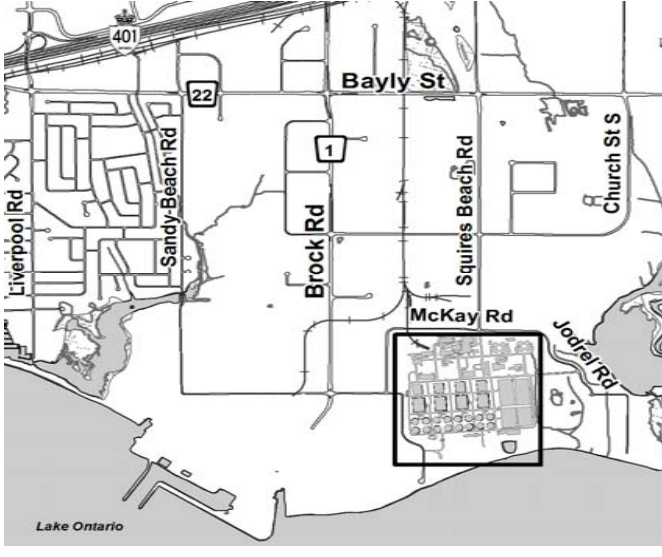
**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING							0.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		150.000	150.000	150.000	150.000	150.000	750.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	150.000	150.000	150.000	150.000	150.000	750.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		150.000	150.000	150.000	150.000	150.000	750.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	150.000	150.000	150.000	150.000	150.000	750.000

NEED/EXPLANATION OF PROJECT

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 116</b></p> <p><u>BUILDINGS</u></p> <p>Duffin Creek WPCP - Regional Environmental Laboratory Upgrades Pickering</p> <p>Project No. Y1602</p>
RELATED PROJECTS
<p>2016 Sanitary Sewerage Capital Budget Item No. 76</p>
<p><i>City of Pickering</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		250.000	145.000				395.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		0.000	2,355.000				2,355.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	250.000	2,500.000	0.000	0.000	0.000	2,750.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		109.750	1,097.500				1,207.250
NEW COMMERCIAL DEVELOPMENT CHARGES*		3.375	33.750				37.125
USER REVENUES		11.875	118.750				130.625
DEBENTURES							0.000
OTHER		125.000	1,250.000				1,375.000
<b>TOTAL ATTRIBUTION</b>	0.000	250.000	2,500.000	0.000	0.000	0.000	2,750.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 121</b></p> <p><b>BUILDINGS</b></p> <p>Expansion of the Whitby Water Supply Plant from 109,100 m<sup>3</sup>/d to 218,200m<sup>3</sup>/d, Whitby</p> <p>Project No. D9944</p>
<p align="center"><b>RELATED PROJECTS</b></p> <p>2011 Water Supply Capital Budget Item No. 82                  2014 Water Supply Capital Budget Item No. 107                  2015 Water Supply Capital Budget Item No. 122</p>
<p><i>Town of Whitby</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	6,274.400	1,075.597			10,000.000		17,349.997
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION					120,000.000		120,000.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	<b>6,274.400</b>	<b>1,075.597</b>	<b>0.000</b>	<b>0.000</b>	<b>130,000.000</b>	<b>0.000</b>	<b>137,349.997</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	4,035.290	922.007			83,590.000		88,547.297
NEW COMMERCIAL DEVELOPMENT CHARGES*	571.870	29.535			10,400.000		11,001.405
USER REVENUES	1,667.240	124.056			36,010.000		37,801.296
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	<b>6,274.400</b>	<b>1,075.597</b>	<b>0.000</b>	<b>0.000</b>	<b>130,000.000</b>	<b>0.000</b>	<b>137,349.997</b>

NEED/EXPLANATION OF PROJECT

**PROJECT LOCATION & DESCRIPTION**

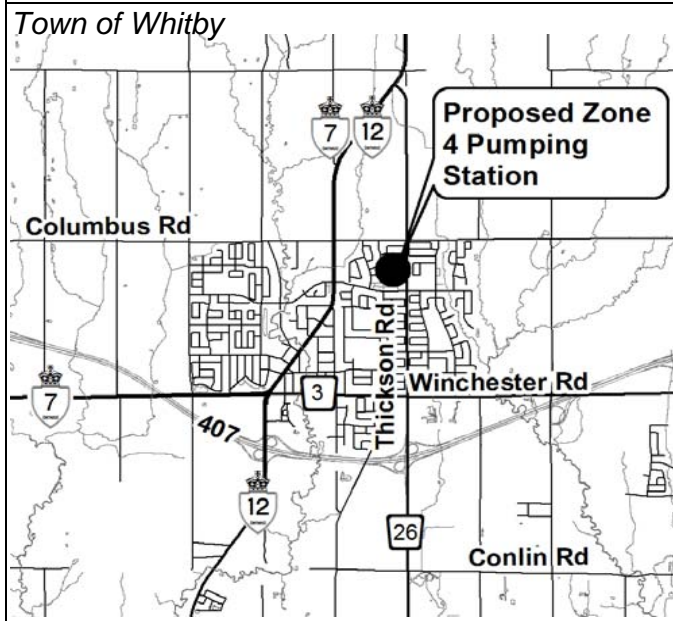
ITEM NO. 122

BUILDINGS

Proposed Zone 4 pumping station at the Thickson Rd. reservoir, Whitby

Project No. D1608

**RELATED PROJECTS**



**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT		600.000					600.000
ENGINEERING				400.000			400.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION				200.000		5,900.000	6,100.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	600.000	0.000	600.000	0.000	5,900.000	7,100.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		526.800		526.800		5,180.200	6,233.800
NEW COMMERCIAL DEVELOPMENT CHARGES*		16.200		16.200		159.300	191.700
USER REVENUES		57.000		57.000		560.500	674.500
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	600.000	0.000	600.000	0.000	5,900.000	7,100.000

**NEED/EXPLANATION OF PROJECT**

REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL

WATER SUPPLY SYSTEM

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 132</p> <p><u>BUILDINGS</u></p> <p>Proposed Oshawa Zone 4 storage facility - 11,360 m<sup>3</sup>, Oshawa</p> <p>Project No. D1609</p>
RELATED PROJECTS
<p>City of Oshawa</p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT		500.000					500.000
ENGINEERING			760.000				760.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			240.000		7,500.000		7,740.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	500.000	1,000.000	0.000	7,500.000	0.000	9,000.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		439.000	878.000		6,585.000		7,902.000
NEW COMMERCIAL DEVELOPMENT CHARGES*		13.500	27.000		202.500		243.000
USER REVENUES		47.500	95.000		712.500		855.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	500.000	1,000.000	0.000	7,500.000	0.000	9,000.000

NEED/EXPLANATION OF PROJECT
<p>Timing of expansion dependent on rate of development. Conceptual location- subject to completion of Class Environmental Assessment</p>

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 139</p> <p><u>BUILDINGS</u></p> <p>Proposed Zone 2 Water Pumping Station, Newcastle</p> <p>Project No. D1610</p>
<b>RELATED PROJECTS</b>
<p><i>Municipality of Clarington (Newcastle)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT		500.000					500.000
ENGINEERING			209.900				209.900
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			390.100	3,850.000			4,240.100
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	500.000	600.000	3,850.000	0.000	0.000	4,950.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		439.000	526.800	3,380.300			4,346.100
NEW COMMERCIAL DEVELOPMENT CHARGES*		13.500	16.200	103.950			133.650
USER REVENUES		47.500	57.000	365.750			470.250
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	500.000	600.000	3,850.000	0.000	0.000	4,950.000

NEED/EXPLANATION OF PROJECT
<p>Conceptual Location - Subject to completion of Class Environmental Assessment.</p>



REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL

WATER SUPPLY SYSTEM

PROJECT LOCATION & DESCRIPTION
<b>ITEM NO. 149</b> <b>BUILDINGS</b> Wellhead protection at Regional well sites  Project No. M0101
<b>RELATED PROJECTS</b>

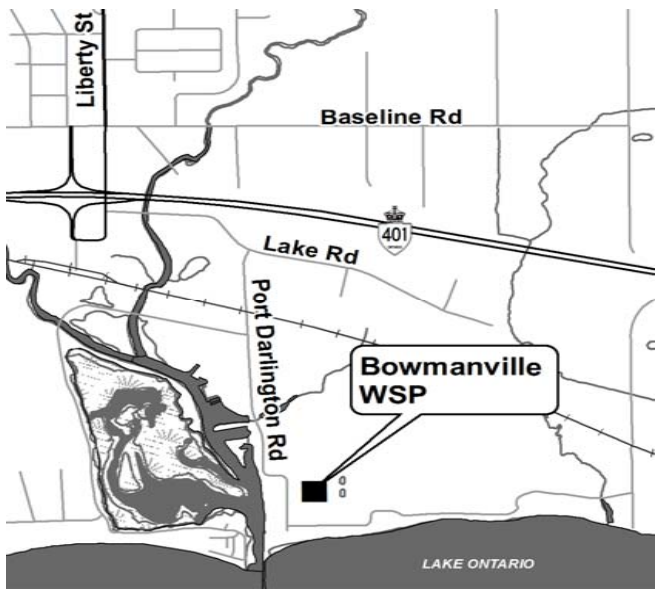
BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		114.000	114.000	114.000	114.000	114.000	570.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		686.000	686.000	686.000	686.000	686.000	3,430.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	800.000	800.000	800.000	800.000	800.000	4,000.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		800.000	800.000	800.000	800.000	800.000	4,000.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	800.000	800.000	800.000	800.000	800.000	4,000.000

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. Permit to Take Water requirements are included.

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 154</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Bowmanville Water Supply Plant - Filter Refurbishment</p> <p>Project No. D1611</p>
RELATED PROJECTS
<p><i>Municipality of Clarington (Bowmanville)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		215.000					215.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		1,285.000					1,285.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	1,500.000	0.000	0.000	0.000	0.000	1,500.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		1,500.000					1,500.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	1,500.000	0.000	0.000	0.000	0.000	1,500.000

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 155</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Bowmanville Water Supply Plant - Chlorine Gas Scrubber Protection</p> <p>Project No. D1417</p>
RELATED PROJECTS
<p>2014 Water Supply Capital Budget Item No. 132</p>
<p><i>Municipality of Clarington (Bowmanville)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	180.000	30.000					210.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	120.000	1,200.000					1,320.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	<b>300.000</b>	<b>1,230.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>1,530.000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES	300.000	1,230.000					1,530.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	<b>300.000</b>	<b>1,230.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>1,530.000</b>

NEED/EXPLANATION OF PROJECT

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 157</b></p> <p><u>IT INFRASTRUCTURE</u></p> <p>Ajax Water Supply Plant - Genset Controller System Replacement</p> <p>Project No. D1313</p>
RELATED PROJECTS
<p>2013 Water Supply Capital Budget No. 103</p>
<p><i>Town of Ajax</i></p> <p>Harwood Av S</p> <p>Clover Ridge Dr</p> <p>Lake Driveway</p> <p>Pickering Beach Rd</p> <p><b>Ajax Water Supply Plant</b></p> <p>LAKE ONTARIO</p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	35.500	81.900					117.400
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	214.500	498.100					712.600
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	250.000	580.000	0.000	0.000	0.000	0.000	830.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER - AMRF	250.000	580.000					830.000
<b>TOTAL ATTRIBUTION</b>	250.000	580.000	0.000	0.000	0.000	0.000	830.000

NEED/EXPLANATION OF PROJECT
<p>Asset management project - genset control system equipment has reached the end of it's useful life.</p>

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 164</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for acquisition of easements
Project No. M1601
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Budget Item No.118

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING							0.000
LAND ACQUISITION		150.000	150.000	150.000	150.000	150.000	750.000
UTILITY RELOCATION							0.000
CONSTRUCTION							0.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	150.000	150.000	150.000	150.000	150.000	750.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		150.000	150.000	150.000	150.000	150.000	750.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	150.000	150.000	150.000	150.000	150.000	750.000

<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, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 165</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for engineering studies
Project No. M1607
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Budget Item No.119

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		150.000	50.000	50.000	50.000	50.000	350.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION							0.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	150.000	50.000	50.000	50.000	50.000	350.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		150.000	50.000	50.000	50.000	50.000	350.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	150.000	50.000	50.000	50.000	50.000	350.000

<b>NEED/EXPLANATION OF PROJECT</b>
This provision is for miscellaneous engineering studies which require specialized expertise.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 166</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Preliminary Engineering
Project No. 66143
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Budget Item No.121

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		100.000	100.000	100.000	100.000	100.000	500.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION							0.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		100.000	100.000	100.000	100.000	100.000	500.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 167</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for sundry extensions as per Council policy
Project No. M1608
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Budget Item No.122

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		2.200	2.200	2.200	2.200	2.200	11.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		12.800	12.800	12.800	12.800	12.800	64.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	15.000	15.000	15.000	15.000	15.000	75.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		15.000	15.000	15.000	15.000	15.000	75.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	15.000	15.000	15.000	15.000	15.000	75.000

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



**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 168</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for unknown requirements
Project No. M1609
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Budget Item No.123

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		14.000	14.000	14.000	14.000	14.000	70.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		86.000	86.000	86.000	86.000	86.000	430.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		100.000	100.000	100.000	100.000	100.000	500.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 169</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for Regional share for works in conjunction with residential subdivision development
Project No. M1610
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Budget Item No.124

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		200.000	200.000	200.000	200.000	200.000	1,000.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		1,260.000	1,260.000	1,260.000	1,260.000	1,260.000	6,300.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	1,460.000	1,460.000	1,460.000	1,460.000	1,460.000	7,300.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		1,281.880	1,281.880	1,281.880	1,281.880	1,281.880	6,409.400
NEW COMMERCIAL DEVELOPMENT CHARGES*		39.420	39.420	39.420	39.420	39.420	197.100
USER REVENUES		138.700	138.700	138.700	138.700	138.700	693.500
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	1,460.000	1,460.000	1,460.000	1,460.000	1,460.000	7,300.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 170</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for Regional share for works in conjunction with non-residential development
Project No. M1611
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Budget Item No.125

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		57.200	57.200	57.200	57.200	57.200	286.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		342.800	342.800	342.800	342.800	342.800	1,714.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	400.000	400.000	400.000	400.000	400.000	2,000.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		351.200	351.200	351.200	351.200	351.200	1,756.000
NEW COMMERCIAL DEVELOPMENT CHARGES*		10.800	10.800	10.800	10.800	10.800	54.000
USER REVENUES		38.000	38.000	38.000	38.000	38.000	190.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	400.000	400.000	400.000	400.000	400.000	2,000.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 171</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Well interference works
Project No. M1614
<b>RELATED PROJECTS</b>

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		57.200	57.200	57.200	57.200	110.000	338.800
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		342.800	342.800	342.800	342.800	890.000	2,261.200
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	400.000	400.000	400.000	400.000	1,000.000	2,600.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		400.000	400.000	400.000	400.000	1,000.000	2,600.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	400.000	400.000	400.000	400.000	1,000.000	2,600.000

<b>NEED/EXPLANATION OF PROJECT</b>
Allowance for construction of well interference works in accordance with Regional policy. Priorities and locations of proposed works are under review.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**WATER SUPPLY SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 172</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Fuel Tank Compliance
Project No. D1613
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Budget Item No.126

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		190.000					190.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		160.000	1,000.000				1,160.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	350.000	1,000.000	0.000	0.000	0.000	1,350.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		350.000	1,000.000				1,350.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	350.000	1,000.000	0.000	0.000	0.000	1,350.000

<b>NEED/EXPLANATION OF PROJECT</b>
Allowance for fuel tank inspections in various locations in the Region.

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
<b>CONSTRUCTION OF MUNICIPAL SERVICES</b>															
<b>ROAD RELATED PROJECTS</b>															
<b>A LINEAR INFRASTRUCTURE</b>															
<b>Regional Road Program</b>															
1	R.R. 2 (Simcoe St.) from Rossland Rd. to Robert St., Oshawa Detailed Design Construction Total	R1006	155,000 852,000	100,000									155,000 952,000 1,107,000	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 Baseline Rd. to King St., Bowmanville	R0503					300,000	1,300,000					1,600,000		
3	R.R. 16 (Ritson Rd.) from 51 m South of Maine St. to Given Rd., Oshawa	R1510	20,000	510,000									530,000		
4	R.R. 17 (Main St.) from Mills St. to Taunton Rd., Orono	R1511		100,000	1,170,000								100,000 1,170,000 1,270,000		
5	R.R. 22 (Bayly St./Harwood Ave., Ajax intersection improvements) Detailed Design Construction Total	A1501	60,000										60,000 210,000 270,000		
6	R.R. 22 (Victoria St.) from South Blair St. to east of Thicksen Rd., Whitby (Realignment) Detailed Design Construction Total	T4011		250,000			1,050,000						250,000 1,050,000 1,300,000		Local watermain contract Future feedermain to be constructed in Blvd.
7	R.R. 25 (Consumers Dr.) extension from east of Thicksen Rd. to Thornton Rd., Whitby /Oshawa Detailed Design Construction Total	R1320	32,900	250,000	1,040,000								32,900 1,290,000 1,322,900		
8	R.R. 26 (Thicksen Rd.) from Wentworth St. to C.N.R. bridge, Whitby	R0710		25,000			170,000						195,000		
9	R.R. 33 (Harmony Rd.) from Rossland Rd. to Conlin Rd., Oshawa Detailed Design Construction Total Cost	R0717 R0716	1,025,000 40,000		250,000								1,025,000 40,000 1,315,000		Construction to be coordinated with the Zone 3 feedermain. Phase I - Harmony Rd. & Conlin Rd. intersection improvements completed Phase II - Between Rossland Rd. and Taunton Rd. Phase III - feedermain only
10	R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby Detailed Design											350,000	350,000		Construction beyond forecast.
11	R.R. 43 (Cochrane St.) from Ferguson St. to Bonacord Ave., Whitby Detailed Design Construction Total	R1519	85,000				790,500						85,000 790,500 875,500		
12	R.R. 52 (Thornton Rd.) from Champlain Ave. to Consumers Dr., Oshawa	R1407		100,000									100,000		

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
13	R.R. 53 (Stevenson Rd.) from Bond St. to Rossland Rd., Oshawa						100,000				1,200,000			1,300,000	
14	R.R. 57 (Martin Rd.) from Baseline Rd. to Nash Rd. Bowmanville Detailed Design Construction Total				25,000			100,000						25,000 100,000 125,000	Phase 2 - Baseline Rd. to King St (Hwy No. 2)
15	R.R. 58 Manning Rd./Adelaide Ave. intersection from Garrard Rd. to Thornton Rd., Whitby and Oshawa	R0517				100,000			740,000					840,000	
16	R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa	R0604							100,000	750,000				850,000	
17	R.R. 59 (Gibb St.)/Olive Ave. Interconnection from Simcoe St. to Ritson Rd., Oshawa	R0116								35,000		130,000		165,000	
18	R.R. 60 (Wentworth St.) from Farewell St. to Simcoe St., Oshawa (Rehabilitation)								1,250,000					1,250,000	
19	Allowance for watermains in conjunction with the Regional Road Program				100,000	200,000	1,200,000		100,000	1,500,000	1,000,000	1,000,000	2,000,000	7,100,000	
Sub-total Regional road program			2,269,900	1,335,000	2,585,000	1,730,000	1,600,000	2,980,500	2,150,000	1,535,000	2,200,000	1,130,000	2,350,000	21,865,400	
20	<b>Area Municipality Road Programs</b>  The repair and replacement of deficient watermains are proposed to be carried out both in conjunction with area municipality road programs (Item No.'s 20A to 20I), 29 projects and independent of road programs in various locations including watermain cement mortar lining program (Item No. 21 & 22) 5 projects. Total 34 projects.														
20A	<b>City of Pickering Road Program (0 Projects)</b>  Works forecast for 2017 to 2025				275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	2,475,000	Replacement of deficient watermains and/or construction of required works in conjunction with the City of Pickering road program.
20B	<b>Town of Ajax Road Program (6 Projects)</b>  Rideout St. from Exeter Rd to Kings Cres Clover Ridge Dr. from Harwood Ave. to Dryer Dr. Dryer Dr. from Harwood Ave. to Clements Rd. Graham Crt. Commercial Ave. from Station St. to Hunt St. Hunt St. from Harwood Ave. to Dowty Ave.  Works forecast for 2017 to 2025	A1699		230,000	197,000	197,000	197,000	197,000	197,000	197,000	197,000	197,000	197,000	1,773,000	Replacement of deficient watermains and/or construction of required works in conjunction with the Town of Ajax road program.
20C	<b>Town of Whitby Road Program (4 Projects)</b>  Keith St. from Bryon St. to Brock St. Bryon St. from Arthur St. to St. John St. Trent St. from Henry St. to Brock St. Watson St. from Brock St. S. to Dufferin St.  Works forecast for 2017 to 2025	W1699		1,330,000	618,000	618,000	618,000	618,000	618,000	618,000	618,000	618,000	618,000	5,562,000	Replacement of deficient watermains and/or construction of required works in conjunction with the Town of Whitby road program.

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast								TOTAL	REMARKS	
					2017	2018	2019	2020	2021	2022	2023	2024			2025
20D	<p><b>City of Oshawa Road Program</b> (12 Projects)</p> <p>Cubert St. from Tresane St. to Sinclair Ave. Hibbert Ave. from Cubert St. 108 m E of Cubert St. Park Rd. 55m S of College Ave. to Hillside Ave. Sinclair Ave. from West limit to Cubert St. Oshawa Blvd. from Eulalie Ave. to Gliddon Ave. Verdun Rd. from Eulalie Ave. to Gliddon Ave. Grenfell St. from Elmgrove Ave to Pine Ave. Hillside Avenue from Laval Dr./Laval St. to Seville St. Glenwood Ct. from South Limit to Winona Ave. Glenwood Cres. from Winona Ave. to Bessborough Dr. Stevenson Rd. N from Rossland Rd. W to Ross Ave. Bagot St. from Queen St. to Centre St.</p>	O1699		950,000										950,000	Replacement of deficient water mains and/or construction of required works in conjunction with the City of Oshawa road program.
	Works forecast for 2017 to 2025				1,095,000	1,095,000	1,095,000	1,095,000	1,095,000	1,095,000	1,095,000	1,095,000	1,095,000	9,855,000	
20E	<p><b>Municipality of Clarington Road Program</b> (5 Projects)</p> <p>Bernard St. from Third St. South limits and Third St. from Liberty St. to High St. Jackman Rd. from pedestrian bridge (west limits) to Scugog St. Lamb Ln. from Odell St. to North limits Liberty Place and Alexander Blvd. from Liberty St. to west limits Concession Rd. 3 from Martin Rd. to Liberty St.</p>	C1699		1,595,000										1,595,000	Replacement of deficient water mains and/or construction of required works in conjunction with the Municipality of Clarington road program.
	Works forecast for 2017 to 2025				366,000	366,000	366,000	366,000	366,000	366,000	366,000	366,000	366,000	3,294,000	
20F	<p><b>Township of Scugog Road Program</b> (1 Project)</p> <p>Old Simcoe St. from King St. to Jeffery St., Scugog</p>			0											Replacement of deficient water mains and/or construction of required works in conjunction with the Township of Scugog road program.
	Works forecast for 2017 to 2025				130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	1,170,000	
20G	<p><b>Township of Uxbridge Road Program</b> (0 Projects)</p>			0											Replacement of deficient water mains and/or construction of required works in conjunction with the Township of Uxbridge road program.
	Works forecast for 2017 to 2025				270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	2,430,000	
20H	<p><b>Township of Brock Road Program</b> (1 Project)</p> <p>Mara Rd. from Main St. to North of Franklin St.</p>	K1699		860,000										860,000	Replacement of deficient water mains and/or construction of required works in conjunction with the Township of Brock road program.
	Works forecast for 2017 to 2025				250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,250,000	
20I	Allowance for unknown requirements in conjunction with area municipality road programs in various locations	M1603		100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	Allowance to provide for unanticipated watermain works in conjunction with area municipality road programs in various locations (Items No. 19A to 19H).
	Sub-total works to rectify identified deficiencies and/or construction of required works in conjunction with area municipality road programs (Items 20A to 20I)			5,065,000	3,301,000	3,301,000	3,301,000	3,301,000	3,301,000	3,301,000	3,301,000	3,301,000	3,301,000	34,774,000	



CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
<b><u>MTO &amp; Go Transit projects:</u></b>															
21	Allowance for watermain 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	
<b>Sub-total works in conjunction with the MTO and GO Transit projects</b>			0	0	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	900,000	
<b><u>Betterments/Replacement</u></b>															
22	<u>Works to rectify identified system deficiencies independent of road programs in various locations (5 Projects)</u>	M1699		300,000										300,000	Provision for replacement and/or rehabilitation of deficient watermain independent of road programs in various locations.
	Hwy 7A (Scugog Rd.) from Old Simcoe Rd. to Simcoe Rd., Scugog	S1502													
	Erosion protection for watermain in various locations	M1615													
	Allowance for final restoration for remedial works constructed in prior years	M1616													
	Remedial works in various locations (Locations and priorities under review)	M1617													
	Preliminary engineering/surveys for future construction of remedial works	M1618													
	Future remedial works in various locations				675,000	675,000	718,000	754,000	800,000	800,000	800,000	800,000	800,000	6,822,000	
23	Rehabilitation of existing watermain in various locations	D1612		1,079,480	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	15,479,480	Rehabilitation (cement mortar lining) of watermain in various locations.
<b><u>PICKERING/ AJAX SYSTEM</u></b>															
24	Replacement of a watermain on Old Forest Rd. from Highbush Trail to Rosebank Rd. North, Pickering											382,000		382,000	Asset Management Project - Watermain has reached the end of its useful service life.
25	Replacement of a watermain on Rougemount Dr. from Kingston Rd. to approx. 100 m South, Pickering							190,000						190,000	Asset Management Project - Watermain has reached the end of its useful service life.
26	Replacement of a watermain on Brock Rd. from Feldspar Crt. to Clements Rd., Pickering							525,000						525,000	Asset Management Project - Watermain has reached the end of its useful service life.
27	Replacement of a watermain on Notion Rd. from Kingston Rd. to approx. 230 m South, Pickering							100,000						100,000	Asset Management Project - Watermain has reached the end of its useful service life.
28	Replacement of watermain on Cameron St. from Elizabeth St. to Windsor St., Ajax							425,000						425,000	Asset Management Project - Watermain has reached the end of its useful service life.
29	Replacement of watermain on Windsor Dr. from Old Kingston Rd. to Cameron St., Ajax							400,000						400,000	Asset Management Project - Watermain has reached the end of its useful service life.
30	Replacement of a watermain on Mackenzie Ave. from Hunt St. to Bayly St., Ajax											540,000		540,000	Asset Management Project - Watermain has reached the end of its useful service life.
31	Replacement of a watermain on Dowty Rd. from Thomson St. to Hunt St., Ajax											680,000		680,000	Asset Management Project - Watermain has reached the end of its useful service life.
<b><u>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</u></b>															
32	Replacement of watermain on Centre St. from Dundas St. to Arthur St., Whitby							40,000	765,000					805,000	Asset Management Project - Watermain has reached the end of its useful service life.
33	Replacement of watermain on Lupin Dr. from Hutchinson Ave. to Lilac Terrace, Whitby											125,000		125,000	Asset Management Project - Watermain has reached the end of its useful service life.

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS	
					2017	2018	2019	2020	2021	2022	2023	2024	2025			
34	Replacement of watermain on Centre St. N. from Palmerston Ave. to Rossland Rd., Whitby								382,000						382,000	Asset Management Project - Watermain has reached the end of its useful service life.
35	Replacement of a watermain on Maria St. from Annes St. to Frances St., Whitby											360,000			360,000	Asset Management Project - Watermain has reached the end of its useful service life.
36	Replacement of a watermain on Giffard St. from Warden Wilson Ave. to Hallett Ave., Whitby									125,000					125,000	Asset Management Project - Watermain has reached the end of its useful service life.
37	Replacement of watermain on Mason Dr. from Dunlop St. to Dovedale Dr., Whitby												350,000		350,000	Asset Management Project - Watermain has reached the end of its useful service life.
38	Replacement of a watermain on Orchard Crt. from St. Lawrence St. to west limits of Orchard Crt., Whitby											135,000			135,000	Asset Management Project - Watermain has reached the end of its useful service life.
39	Replacement of a watermain on James St. from King St. to Centre St. South, Whitby											185,000			185,000	Asset Management Project - Watermain has reached the end of its useful service life.
40	Replacement of a watermain on McQuay Blvd. from Brookdale Cres to Brookdale Cres., Whitby	W1601		320,000											320,000	Asset Management Project - Watermain has reached the end of its useful service life.
41	Replacement of a feedermain on Bloor St. from Grandview St. to Townline Rd., Oshawa	O1501	150,000		1,600,000										1,750,000	Asset Management Project - feedermain has reached the end of its useful service life.
42	Replacement of a watermain on Farewell St. from CNR to Bloor St., Oshawa				470,000										470,000	
43	Replacement of a watermain on King St. from Harmony Rd. to Melrose St., Oshawa									75,000	675,000				750,000	Asset Management Project - Watermain has reached the end of its useful service life.
44	Replacement of a watermain on Lanark Dr. from Annapolis Ave. to Waverly St., Oshawa	O1603		580,000											580,000	Asset Management Project - Watermain has reached the end of its useful service life.
45	Replacement of a watermain on Harcourt Dr. from Florell Dr. to deadend, Oshawa	O1604		100,000	300,000										400,000	Asset Management Project - Watermain has reached the end of its useful service life.
46	Replacement of a watermain on Madawaska Ave. from Sauble St. to Wecker St., Oshawa					160,000	740,000								900,000	Asset Management Project - Watermain has reached the end of its useful service life.
47	Replacement of watermain on Athol St. E. from Simcoe St. to Celina St., Oshawa				200,000										200,000	Asset Management Project - watermain has reached the end of its useful service life.
48	Replacement of a watermain on Adelaide Ave. from Roxborough Ave. to Juliana Dr., Oshawa					100,000	570,000								670,000	Asset Management Project - Watermain has reached the end of its useful service life.
49	Replacement of a watermain on Durham St. from Gibb St. to Cartier Ave., Oshawa	O1605		570,000											570,000	Asset Management Project - Watermain has reached the end of its useful service life.
50	Replacement of watermain on Valencia Rd. from Oxford St. to deadend, Oshawa										340,000				340,000	Asset Management Project - watermain has reached the end of its useful service life.
51	Replacement of watermain on Adelaide Ave. W. from Kayser St. to Centre St., Oshawa							80,000		470,000					550,000	Asset Management Project - watermain has reached the end of its useful service life.
52	Replacement of a watermain on Ritson Rd. from Valley Dr. to Kawartha Ave., Oshawa											25,500	703,500		729,000	Asset Management Project - Watermain has reached the end of its useful service life.
53	Replacement of watermain on Centre St. from King St. W to Brock St. W., Oshawa	O1503		120,000		770,000									890,000	Asset Management Project - Watermain has reached the end of its useful service life.

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
54	Replacement of watermain on Hillside Ave. from Seville St. to Lisbon Cr., Oshawa	O1606		115,000										115,000	Asset Management Project - Watermain has reached the end of its useful service life.
55	Replacement of watermain on Montgrave Ave. from Hillside Ave. to 49m N of Pacific Ave., Oshawa	O1601		125,000										125,000	Asset Management Project - Watermain has reached the end of its useful service life.
56	Replacement of a watermain on Wilson Rd. from Raleigh Ave. to Wentworth St., Oshawa						490,000							490,000	Asset Management Project - Watermain has reached the end of its useful service life.
57	Replacement of a watermain on Ritson Rd. from Madawaska Ave. to Lakeview Park, Oshawa					78,000								78,000	Asset Management Project - Watermain has reached the end of its useful service life.
58	Replacement of a watermain on Oxford from Malaga Rd. to Porter St., Oshawa											300,000		300,000	Asset Management Project - Watermain has reached the end of its useful service life.
<b>CLARINGTON (NEWCASTLE) SYSTEM</b>															
59	Watermain on North St. from Grady St. to Concession Rd. 3, Newcastle	C1601		50,000			60,000								Phase 1: Grady St. to North of CPR Phase 2: North of CPR to Concession Rd. 3
	Detailed Design													110,000	
	Construction													2,020,000	
	Total				880,000			1,140,000						2,130,000	
<b>SCUGOG (PORT PERRY) SYSTEM</b>															
60	Replacement of watermain on Alma St. from Pine St. to Gibson St., Port Perry												170,000	170,000	Asset Management Project - Watermain has reached the end of its useful service life.
<b>BROCK (BEAVERTON) SYSTEM</b>															
61	Replacement of watermain on Laidlaw St. from Cameron St. to Park St., Cannington												35,000	35,000	Asset Management Project - Watermain has reached the end of its useful service life.
62	Replacement of watermain on Cameron St. from 375 m east of McRea St. to 875 east of McRae St., Cannington												745,000	745,000	Asset Management Project - Watermain has reached the end of its useful service life.
63	Replacement of watermain on Bay St. from Mill St. to Union St., Brock					200,000		1,160,000						1,360,000	Asset Management Project - Watermain has reached the end of its useful service life.
64	Replacement of watermain in various locations									1,943,700	1,893,700	1,836,200	1,285,200	6,958,800	Asset Management Project
65	Allowance for construction of services in unserviced areas in response to requests or petitions				200,000	1,100,000	1,150,000							2,450,000	Allowance for construction of watermain in unserviced areas in response to requests or petitions.
<b>Sub-total Betterments/Replacement</b>				3,359,480	5,925,000	5,108,000	5,853,000	5,846,000	3,290,000	4,888,700	5,988,700	5,988,700	5,988,700	52,236,280	
<b>System Expansion</b>															
<b>PICKERING / AJAX SYSTEM</b>															
66	Zone 1 feedermain on Rossland Rd. from Church St. to Westney Rd., Ajax	D1522		100,000											Construction of feedermain to service new development. Timing of construction dependent on rate development
	Detailed Design													100,000	
	Construction					5,650,000								5,650,000	
	Total					5,750,000								5,750,000	
67	Zone 1 feedermain on Bayly St. from Pickering Beach Rd. to Toy Ave., Pickering/Ajax											350,000		350,000	Construction of feedermain to service new development. Timing of construction dependent on rate development Construction beyond forecast.
	Detailed Design														
	Construction														
	Total														
68	Zone 1 feedermain on Harwood Ave. from Rossland Rd. to Magill Dr., Ajax					800,000		3,425,000						800,000	Construction of feedermain to service new development. Timing of construction dependent on rate development
	Detailed Design														
	Construction													3,425,000	
	Total					800,000		3,425,000						4,225,000	

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS	
					2017	2018	2019	2020	2021	2022	2023	2024	2025			
69	Zone 2 feedermain on Taunton Rd. from Brock Rd. to Harwood Ave., Pickering/ Ajax Detailed Design Construction Total								1,400,000		2,000,000	2,500,000	2,750,000		Construction of feedermain to service new development. Timing of construction dependent on rate development Phase 1: Brock Rd to Church St Phase 2: Church St. to Westney Rd. Phase 3: Westney Rd. to Harwood Ave.	
70	Zone 2 feedermain on Church St. from Rossland Rd. to Taunton Rd., Ajax Detailed Design Construction Total									500,000		2,900,000		500,000 2,900,000 3,400,000	Construction of feedermain to service new development. Timing of construction dependent on rate development	
<b><u>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</u></b>																
71	Zone 1 feedermain from Whitby WSP to Thornton Rd., Whitby/Oshawa Conceptual Planning - Corridor Study Detailed Design Construction Total	W1001	100,000 600,000				11,800,000	11,100,000	15,600,000						100,000 600,000 38,500,000 39,100,000	Construction of feedermain to service new development. Timing of construction dependent on rate development Phase 1: Victoria St./Bloor St. from Thickson Rd. to Thornton Rd., Whitby/Oshawa Phase 2: from Whitby WSP to Victoria St./ CNR Phase 3: Victoria St. from CN Rail to Thickson Rd., Whitby
72	Zone 1 feedermain on Manning Rd. from Anderson St. to Thickson Rd., Whitby Detailed Design Construction Total									400,000		1,400,000		400,000 1,400,000 1,800,000		
73	Zone 1 West Whitby feedermain from Brock St./Victoria St. to Rossland Rd., Whitby Environmental Assessment											520,000		520,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development Phase 1 - Brock St./Victoria St. to Hwy No. 2 Phase 2 - Hwy No. 2 to Rossland Rd. Construction beyond forecast	
74	Zone 3 - 300mm watermain crossing Lynde Creek at Carnwith Dr. from Way St. to 250m east, (Brooklin) Whitby Detailed Design Construction Total	D1301	150,000			750,000								150,000 750,000 900,000	Watermain looping for system security.	
75	Zone 3 feedermain on Conlin Rd. from Anderson St. to Garrard Rd. Pumping Station., Whitby Detailed Design Construction Total						700,000	3,550,000						700,000 3,550,000 4,250,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development.	
76	Zone 3 feedermain on Anderson St. from Conlin Rd. to Clair Ave., Whitby Detailed Design Construction Total						450,000	4,400,000						450,000 4,400,000 4,850,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development.	
77	Zone 4 feedermain from Thickson Rd. Zone 4 Pumping station to Zone 4 Reservoir, Whitby Detailed Design Construction Total					1,500,000	14,000,000							1,500,000 14,000,000 15,500,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development	
78	Zone 4 feedermain on Brawley Rd. from Duffs Rd. to Ashburn Rd., Whitby Detailed Design Construction Total						500,000		4,960,000					500,000 4,960,000 5,460,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development.	

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
79	Zone 4 feedermain on Columbus Rd. from Thickson Rd. to Ritson Rd., Whitby/Oshawa Detailed Design											3,200,000	3,200,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development. Construction of feedermain beyond forecast.	
80	Watermain on Britannia Dr. from Thornton Rd. to Windfields Farm Dr., Oshawa Detailed Design Construction Total	D1614		80,000							80,000	1,440,000	1,600,000	Required to service new development. Timing of construction dependent on rate of development.	
81	Zone 1 feedermain on Bloor St. from Stevenson Rd. to Wilson Rd., Oshawa	O0403	12,948,000				4,750,000							17,698,000	Phase 1: Albert St. to Ritson Rd.- completed Phase 2: Stevenson Rd. to Albert St. Phase 3: Ritson Rd. to Wilson Rd.
82	Watermain on Thornton Rd. from 500 m North of Taunton Rd. to Conlin Rd., Oshawa Detailed Design Construction Total	D1525	30,000	300,000 1,800,000										330,000 1,800,000 2,130,000	
83	Watermain modifications in conjunction with the twinning of northwest branch of Harmony Creek sub-trunk sanitary sewer from Nonquon Rd. to Hillcroft St., Oshawa							140,000						140,000	Allowance for relocation of existing watermains in conjunction with construction of the sanitary sewer.
84	Zone 2 feedermain on Bloor St. from Townline Rd. to Trulls Rd., Courtice Detailed Design Construction Total	C1201	250,000				400,000	2,850,000						650,000 2,850,000 3,500,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development
85	Zone 3 feedermain on Conlin Rd. from Garrard Rd Zone 3 Pumping Station to Ritson Rd., Oshawa Preliminary/Detailed Design Construction Total	D1602		100,000	2,300,000		14,000,000							2,400,000 14,000,000 16,400,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development
86	Zone 3 feedermain on Conlin Rd. from Ritson Rd. to Wilson Rd., Oshawa Detailed Design Construction Total	D1405	300,000				3,600,000							300,000 3,600,000 3,900,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development
87	Zone 3 feedermain on Harmony Rd. from Taunton Rd. to 400 m South of Conlin Rd., Oshawa Phase 1: Taunton Rd. to Coldstream Dr. Detailed Design Construction Total	O1201	369,500 1,880,500	300,000										369,500 2,180,500 2,550,000	Construction being coordinated with Transportation department
88	Zone 3 feedermain on Harmony Rd. from Taunton Rd. to 400 m South of Conlin Rd., Oshawa Phase 2: Coldstream Dr. to 400 m South of Conlin Rd. Detailed Design Construction Total	D1604		60,000			2,300,000							60,000 2,300,000 2,360,000	Construction being coordinated with Transportation department
89	Zone 4 feedermain on Harmony Rd. from Greenhill Ave. to 400 m south of Conlin Rd., Oshawa Detailed Design Construction Total	D1615		60,000			600,000							60,000 600,000 660,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS	
					2017	2018	2019	2020	2021	2022	2023	2024	2025			
90	Zone 4 feedermain on Harmony Rd. from Conlin Rd. to New Zone 4 Pumping Station, Oshawa Detailed Design Construction Total								400,000		3,700,000				400,000 3,700,000 4,100,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development
91	Zone 4 feedermain from Proposed Zone 4 Pumping Station at Harmony Reservoir to Proposed Oshawa Zone 4 Reservoir, Oshawa Environmental Assessment Detailed Design Construction Total				1,000,000			13,000,000							1,000,000 13,000,000 14,000,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development. Construction of feedermain beyond forecast
92	Zone 4 feedermain on Ritson Rd. from Columbus Rd. to Winchester Rd., Oshawa Detailed Design											1,300,000			1,300,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development. Construction of feedermain beyond forecast
93	Zone 4 feedermain on Winchester Rd. from Ritson Rd. to Grandview St., Oshawa Detailed Design											1,650,000			1,650,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development. Construction of feedermain beyond forecast
94	Courtice - Zone 1 Feedermain Phase 1- 400 m South of Energy Dr. to 100 m North of Energy Rd. Phase 2- 100 m North of Energy Dr. to the intersection of Baseline Rd. and Courtice Rd. Phase 3 - Baseline Rd. from Courtice Rd. to Trulls Rd. and Trulls Rd. from Baseline Rd. to Bloor St. Detailed Design Construction Total	D1303	1,050,000	3,800,000		3,800,000									1,050,000 7,600,000 8,650,000	Project to be coordinated with the Courtice Trunk Sanitary Sewer. Construction of feedermain to service new development. Timing of construction dependent on rate of development
95	Zone 1 feedermain on Baseline Rd. from Prestonvale Rd. to Trulls Rd., Courtice Detailed Design Construction Total								200,000			1,550,000			200,000 1,550,000 1,750,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development
96	Zone 1 feedermain on Prestonvale Rd. from Baseline Rd. to 950 m North of Baseline Rd., Courtice Detailed Design Construction Total				150,000		1,350,000								150,000 1,350,000 1,500,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development
97	Zone 1 feedermain on easement from Townline Rd. to Prestonvale Rd., Courtice Detailed Design Construction Total						150,000		1,250,000						150,000 1,250,000 1,400,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development
<b>CLARINGTON (BOWMANVILLE) SYSTEM</b>																
98	Zone 1 feedermain on Lambs Rd. from Hwy No. 2 (King St.) to Zone 1 Liberty Street Reservoir Environmental Assessment & Detailed Design Construction Total	C1202	3,820,500 9,119,970	2,059,535	11,250,000										3,820,500 22,429,505 26,250,005	Required to accommodate new development. Construction to be completed in conjunction with Liberty St. Zone 1 Reservoir. Feedermain will be completed in phases. Phase I: Hwy No. 2 to Third Concession Rd. Phase II: Third Concession Rd. to reservoir
99	Zone 1 feedermain on Baseline Rd. from Liberty St. to R.R. 57 (Martin Rd.), Bowmanville Detailed Design Construction Total						400,000		4,300,000						400,000 4,300,000 4,700,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development
100	Zone 1 feedermain from Bowmanville Water Supply Plant to Baseline Rd., Bowmanville Environmental Assessment													500,000	500,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development Detailed design and construction beyond forecast

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
101	Zone 1 feedermain on Baseline Rd. from Wharf St. to Mearns Ave., Bowmanville Environmental Assessment												500,000	500,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development Detailed design and construction beyond forecast
102	Zone 2 feedermain on Concession Rd. 3 from Middle Rd./ Scugog St. to Mearns Ave. Detailed Design Construction Total	C0502	780,000			3,400,000								780,000 3,400,000 4,180,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development
103	Zone 2 feedermain on Concession Rd. 3 from Middle Rd./ Scugog St. to R.R. 57 (Martin Rd.) and on R.R. 57 (Martin Rd.) from Concession Rd. 3 to Longworth Ave., Bowmanville					925,000								925,000	Phase 1 - Concession Rd. 3 from Middle Rd to Martin Rd - completed Phase 2 - Martin Rd from Concession Rd 3 to Longworth Ave construction of feedermain to service new development. Timing of construction dependent on rate of development
104	Zone 2 feedermain from Zone 2 pumping station to Zone 2 Reservoir, Bowmanville Environmental Assessment											1,100,000		1,100,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development Detailed design and construction beyond forecast
<b>CLARINGTON (NEWCASTLE) SYSTEM</b>															
105	Zone 1 feedermain on Toronto St. from Newcastle WPCP to King St. (Hwy No. 2), Newcastle Detailed Design Construction Total	C1103	500,000 4,239,501		4,500,000									500,000 8,739,501 9,239,501	Construction of feedermain to service new development. Timing of construction dependent on rate of development
106	Zone 1 feedermain from Arthur Street reservoir to future Zone 1 reservoir Detailed Design Construction Total	C1203	250,000			2,450,000								250,000 2,450,000 2,700,000	Feedermain required to connect the proposed reservoir to the water supply system.
107	Zone 1 feedermain on King St. (Highway No. 2) from Rudell Rd. to 200 m west of North St., Newcastle Detailed Design Construction Total	D1406	200,000			950,000								200,000 950,000 1,150,000	To provide looping and security to the existing system.
108	Zone 2 feedermain on Arthur St. from the Zone 2 pumping station to 650m south, Newcastle Detailed Design Construction Total	D1605	180,000 120,000		1,000,000									180,000 1,120,000 1,300,000	Construction of feedermain to service new development. Timing of construction dependent on rate of development
<b>SCUGOG (PORT PERRY) SYSTEM</b>															
109	Feedermain on Scugog Line 3 from Simcoe Rd. to Old Simcoe Rd., Scugog Detailed Design Construction Total	D1607	216,000 84,000		1,250,000									216,000 1,334,000 1,550,000	Construction of feedermain to service existing system and new development. Construction in conjunction with new water supply source. Subject to Water Supply EA.
110	Watermain on Scugog Line 6 from Hwy 12 to 565 m west of Hwy 7A Scugog Detailed Design Construction Total		150,000		1,220,000									150,000 1,220,000 1,370,000	Potential sharing of Grant Funding from the Township of Scugog.
<b>Sub-total System Expansion</b>			36,737,971	9,259,535	24,920,000	56,075,000	36,175,000	24,740,000	22,560,000	6,600,000	8,950,000	11,790,000	1,000,000	238,807,506	
<b>Other Linear Infrastructure</b>															
111	Replacement of meters	D1606		3,100,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	16,600,000	Replacement of meters that have reached the

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2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS	
					2017	2018	2019	2020	2021	2022	2023	2024	2025			
112	Design - Replacement of polybutylene service connections in various locations	D1699		12,700,000	12,900,000	13,300,000	13,600,000	13,800,000	14,900,000						81,200,000	end of their service life.
113	Depots - Replacement of polybutylene service connections in various locations	M1625		1,800,000	1,600,000	1,400,000	1,200,000	1,000,000							7,000,000	
114	Replacement of valves	M1626		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	
115	Replacement of hydrants	M1627		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	
<b>Sub-total Other Linear Infrastructure</b>				17,900,000	16,300,000	16,500,000	16,600,000	16,600,000	16,700,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	107,800,000	
<b>B</b>	<b>BUILDINGS</b>															
	<u>PICKERING / AJAX SYSTEM</u>															
116	Duffin Creek WPCP - Regional Environmental Laboratory Upgrades, Pickering	Y1602		250,000	2,500,000										2,750,000	Cost sharing with York Region
117	Expansion of the Ajax WSP from 163,635 m <sup>3</sup> /d to 327,270 m <sup>3</sup> /d, Ajax Environmental Assessment Detailed Design Construction Total					1,500,000		2,000,000			92,500,000				1,500,000 2,000,000 92,500,000 96,000,000	Construction of future expansion required to accommodate new development. Timing of construction dependent on rate of development.
118	Harwood Ave. Pumping Station Zone 2 modifications to increase capacity from 7,723m <sup>3</sup> /d to 18,184 m <sup>3</sup> /d, Ajax Detailed Design Construction Total				350,000		1,300,000								350,000 1,300,000 1,650,000	Required for new development. Timing of construction dependent on rate of development.
119	Proposed Ajax Zone 1 Storage facility - 11,360 m <sup>3</sup> Ajax Environmental Assessment Detailed Design Construction Total					500,000			500,000		10,650,000				500,000 500,000 10,650,000 11,650,000	
120	Intake crib chlorine line replacement at the Ajax and Whitby Water Supply Plants								675,000	1,100,000					1,775,000	Asset Management Project - intake crib lines have reached the end of their useful service life.
	<u>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</u>															
121	Expansion of the Whitby WSP from 109,100m <sup>3</sup> /d to 218,200m <sup>3</sup> /d Whitby Land and Detailed Design Construction Total	D9944	6,274,403	1,075,597			10,000,000 120,000,000								17,350,000 120,000,000 137,350,000	Preliminary and detailed design initiated in 2014. Construction to commence in 2017
122	Proposed Zone 4 pumping station at the Thickson Rd. reservoir, Whitby Environmental Assessment Detailed Design Construction Total	D1608		600,000		600,000		5,900,000							600,000 600,000 5,900,000 7,100,000	Construction of pumping station to service new development. Timing of construction dependent on rate of development
123	Garrard Rd. Zone 3 pumping station - pump modifications Whitby					1,250,000									1,250,000	Modifications of Zone 3 pumps required in conjunction with the feedermain work on Conlin Rd.



CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
124	Garrard Rd. Zone 1 reservoir expansion from 31,820m <sup>3</sup> to 50,000m <sup>3</sup> , Whitby Environmental Assessment and Detailed Design Construction Total								1,500,000			14,250,000		1,500,000 14,250,000 15,750,000	
125	Proposed Whitby Zone 4 Storage facility - 11,360m <sup>3</sup> Whitby Environmental Assessment Detailed Design Construction Total	D1505	500,000			1,000,000		8,000,000						500,000 1,000,000 8,000,000 9,500,000	
126	Thickson Rd. Zone 3 pumping station Expansion to 22,700m <sup>3</sup> /d, Whitby Environmental Assessment Detailed Design Construction Total										500,000	1,000,000	10,000,000	500,000 1,000,000 10,000,000 11,500,000	Expansion of pumping station required to accommodate new development.
127	Taunton Rd. Zone 2 Reservoir Expansion from 13,640m <sup>3</sup> to 27,280 m <sup>3</sup> , Oshawa Environmental Assessment Detailed Design Construction Total									500,000		500,000	10,850,000	500,000 500,000 10,850,000 11,850,000	Construction of reservoir required to accommodate new development.
128	Proposed Zone 4 pumping station at the Harmony Rd. reservoir, Oshawa Environmental Assessment Detailed Design Construction Total	D1507	500,000		500,000		6,100,000							500,000 500,000 6,100,000 7,100,000	Construction of pumping station required to accommodate new development.
129	Grandview Zone 2 Pumping Station expansion, Oshawa Environmental Assessment Detailed Design Total								500,000			600,000		500,000 600,000 1,100,000	Pumping station expansion required to accommodate new development. Construction beyond forecast.
130	Taunton Rd. Zone 3 Pumping Station expansion from 27,270 m <sup>3</sup> to 75,000 m <sup>3</sup> Oshawa Environmental Assessment											230,000		230,000	Pumping station expansion required to accommodate new development. Detailed design and construction beyond forecast.
131	Harmony Rd. Reservoir expansion, Oshawa Environmental Assessment												510,000	510,000	Construction of reservoir required to accommodate new development. Detailed design and construction beyond forecast.
132	Proposed Oshawa Zone 4 Storage facility - 11,360m <sup>3</sup> Oshawa Environmental Assessment Detailed Design Construction Total	D1609		500,000	760,000 240,000		7,500,000							500,000 760,000 7,740,000 9,000,000	Timing of expansion dependent on rate of development.
<b>CLARINGTON (BOWMANVILLE) SYSTEM</b>															
133	Bowmanville Water Supply Plant Expansion from 36,360 m <sup>3</sup> /d to 54,550m <sup>3</sup> /d Environmental Assessment Detailed Design Total									500,000		1,100,000		500,000 1,100,000 1,600,000	Timing of expansion dependent on rate of development. Construction beyond forecast.
134	Liberty Street Zone 1 reservoir 11,365m <sup>3</sup> and abandon existing elevated tank Update Environmental Assessment and Detailed Design Construction Total	D1106	1,200,000		10,850,000									1,200,000 10,850,000 12,050,000	Construction of future reservoir required to accommodate new development. Upon completion the existing elevated tank will be decommissioned.
135	Concession St. Water Pumping Station Expansion Detailed Design											310,000		310,000	Timing of expansion dependent on rate of development.

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
136	Proposed Zone 2 Pumping station at the Zone 1 Reservoir											1,100,000	1,100,000	Construction beyond forecast. Timing of expansion dependent on rate of development. Construction beyond forecast.	
<b>CLARINGTON (NEWCASTLE) SYSTEM</b>															
137	Expansion of Newcastle WSP from 8,200m <sup>3</sup> /d to 16,400m <sup>3</sup> /d Process study and Detailed Design Construction Total	D1107	3,900,000		21,100,000								3,900,000 21,100,000 25,000,000	Environmental Assessment addendum required	
138	Proposed Zone 1 reservoir 6,810 m <sup>3</sup> Environmental Assessment & Land Detailed Design Construction Total	D1202	300,000		900,000	6,000,000							300,000 900,000 6,000,000 7,200,000	Construction of future reservoir required to accommodate new development. Timing of construction dependent on rate of development.	
139	Proposed Zone 2 Water Pumping Station Environmental Assessment & Land Detailed Design Construction Total	D1610		500,000	210,000 390,000	3,850,000							710,000 390,000 3,850,000 4,950,000		
140	Proposed Zone 2 reservoir Environmental Assessment & Land											500,000	500,000	Construction of future reservoir required to accommodate new development. Timing of construction dependent on rate of development.	
<b>CLARINGTON (ORONO) SYSTEM</b>															
141	New Zone 1 Orono storage facility (820 m <sup>3</sup> ) Environmental Assessment Detailed Design Construction Total						400,000	500,000				2,500,000	400,000 500,000 2,500,000 3,400,000		
<b>SCUGOG (PORT PERRY) SYSTEM</b>															
142	Alternative water supply source Environmental Assessment and Detailed Design Construction Total	S0102	3,030,000			3,000,000	14,800,000						6,030,000 14,800,000 20,830,000	Environmental Assessment and engineering required to identify a new water supply source to provide improved water quality.	
143	Port Perry Storage Facility - additional capacity 2,860 m <sup>3</sup> Detailed Design Construction Total				1,000,000	10,600,000							1,000,000 10,600,000 11,600,000	New Reservoir to provide increased system security and capacity for new development	
<b>UXBRIDGE (UXBRIDGE) SYSTEM</b>															
144	New well and pumphouse, Uxbridge Environmental Assessment Detailed Design Construction Total	D1508	500,000		500,000	2,800,000							500,000 500,000 2,800,000 3,800,000	Provision for EA and land acquisition for future construction of a new well and pumphouse.	
145	Expansion of Quaker Hill reservoir from 2,065m <sup>3</sup> to 5,230m <sup>3</sup> Detailed Design Construction Total	U0701	230,000		400,000	3,180,000							630,000 3,180,000 3,810,000	Required to provide storage capacity for new development.	
<b>BROCK (SUNDERLAND) SYSTEM</b>															
146	New well and pumphouse complete with standby power Environmental Assessment and Detailed Design Construction Total	K0601	650,000			450,000	3,700,000						1,100,000 3,700,000 4,800,000	Required to provide security to the system and capacity for new development.	

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast								TOTAL	REMARKS	
					2017	2018	2019	2020	2021	2022	2023	2024			2025
<b><u>BROCK (CANNINGTON) SYSTEM</u></b>															
147	New well and pumphouse Environmental Assessment and Detailed Design Construction Total	K0701	1,750,000		4,180,000									1,750,000 4,180,000 5,930,000	Required to provide security to the system and capacity for new development. EA completed Detailed Design phase.
<b><u>BROCK (BEAVERTON) SYSTEM</u></b>															
148	Additional Water Storage from 2,045m <sup>3</sup> to 4,767 m <sup>3</sup> Environmental Assessment												500,000	500,000	Required to provide security to the system and capacity for new development. Detailed design and construction beyond forecast.
<b><u>REGION WIDE</u></b>															
149	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.
<b>Sub-total Buildings</b>			18,834,403	3,725,597	44,680,000	24,930,000	160,400,000	31,500,000	3,975,000	95,900,000	28,700,000	6,140,000	22,660,000	441,445,000	
<b>C MACHINERY AND EQUIPMENT</b>															
<b><u>PICKERING / AJAX SYSTEM</u></b>															
150	New diesel generator at the Ajax WSP Detailed Design Construction Total				200,000	1,800,000								200,000 1,800,000	Emergency control and power supply systems required to operate system during communications and hydro electric power failure.
<b><u>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</u></b>															
151	Plate settling tanks at the Whitby Water Supply Plant Detailed Design Construction Total	W0401	549,000							100,000	9,300,000			649,000 9,300,000 9,949,000	Required to remove algae which accumulates in the filters and can reduce WSP capacity. To be completed after the Whitby WSP expansion
152	Installation of standby power at the Whitby WSP Detailed Design Construction Total	D1120	300,000							100,000	3,000,000			400,000 3,000,000 3,400,000	Emergency control and power supply systems required to operate systems during communications and electrical power failures. To be completed after the Whitby WSP expansion
153	Oshawa WSP - Valve Chamber Upgrades Detailed Design Construction Total					100,000	525,000							100,000 525,000 625,000	Valve replacement and interconnection capability.
<b><u>CLARINGTON (BOWMANVILLE) SYSTEM</u></b>															
154	Bowmanville Water Supply Plant - Filter Refurbishment Detailed Design Construction Total	D1611		215,000 1,285,000										215,000 1,285,000 1,500,000	
155	Bowmanville Water Supply Plant - Chlorine Gas Scrubber Detailed Design Construction Total	D1417	300,000	30,000 1,200,000										330,000 1,200,000 1,530,000	Currently no scrubber protection provided. Ensure a safety plan in the event of a chlorine gas leak.

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
	<b>REGION WIDE</b>														
156	Automatic bulk water dispensing system Detailed Design Construction Total				60,000 240,000	60,000 380,000	60,000 380,000	60,000 240,000	60,000 240,000	60,000 240,000	60,000 240,000	60,000 240,000		420,000 1,960,000 2,380,000	Required to provide a secure, efficient and accessible method of supplying bulk water to customers.
	<b>Sub-Total Machinery and Equipment</b>		1,149,000	2,730,000	500,000	2,340,000	965,000	300,000	300,000	500,000	12,600,000	0	0	21,384,000	
<b>D</b>	<b>IT INFRASTRUCTURE</b>														
157	Ajax Water Supply Plant - Genset Controller System Replacement	D1313	250,000	580,000										830,000	Asset management project - genset control system equipment has reached the end of it's useful life.
158	Plant SCADA system projects, to link plants north and plants east to the Ajax WSP SCADA system	D0502	21,480,000		5,000,000									26,480,000	Implementation of a single centralized SCADA system for all WSP's to improve operational efficiency and monitor MOE compliance requirements.
	<b>Sub-total IT Infrastructure</b>		21,480,000	580,000	5,000,000	0	0	0	0	0	0	0	0	27,310,000	
<b>E</b>	<b>ALLOWANCES AND OTHER PROVISIONS</b>														
159	Regional Water Supply Master Planning Study for the Regional Official Plan Review	D1421	900,000					800,000						1,700,000	Required to review and identify water supply infrastructure requirements to service new development as identified in the review of the Regional Official Plan.
160	Emergency Planning Updating Requirements	D1307	175,000		100,000										Allowance for updating required to ensure optimal performance during an emergency.
161	Asset Condition Assessments - Reports for the Vertical Assets	D1419	801,000		300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	3,501,000	Provincial requirement to assess conditions of all assets and develop a rehabilitation strategy.
162	Asset Condition Assessment/ investigation on large CPP Feedermain	D1420	400,000		200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,200,000	Allowance for assessment on a large CPP feedermain.
163	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.
164	Allowance for acquisition of easements	M1601		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 watermains.
165	Allowance for engineering studies	M1607		150,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	600,000	Allowance for miscellaneous engineering studies.
166	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.
167	Allowance for sundry extensions as per Council policy	M1608		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.
168	Allowance for unknown requirements	M1609		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.
169	Allowance for Regional share for works in conjunction with residential subdivision development	M1610		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 watermains related to existing, new residential and new non-residential development, in conjunction with new residential subdivisions.
170	Allowance for Regional share for works in conjunction with non-residential development	M1611		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 watermains for non-residential development.

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
171	Well interference works	M1614		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.
172	Fuel Tank Compliance	D1613		350,000	1,000,000									1,350,000	Allowance for fuel tank inspections in various locations in the Region.
	Sub-total Allowances and Other Provisions		2,276,000	3,125,000	4,475,000	3,175,000	3,175,000	4,575,000	3,975,000	3,775,000	3,775,000	3,775,000	3,775,000	39,876,000	
	TOTAL GROSS EXPENDITURE		82,747,274	47,079,612	107,786,000	113,259,000	228,169,000	89,942,500	56,351,000	118,399,700	67,414,700	34,024,700	40,974,700	986,398,186	

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**2016 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 and Climate Change 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.
- ◆ 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 and Climate Change 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:**

<b>Strategic Goal 2.4 - Protect the quality and quantity of both ground and surface water.</b>	
<b>Responsibility - Lead</b>	
<b>Key Deliverables</b>	
<ul style="list-style-type: none"> <li>◆ Compliance with applicable provincial and federal acts and legislation/regulations.</li> <li>◆ Promote and support water resources conservation and management initiatives.</li> <li>◆ Protect areas of high aquifer vulnerability when considering new development or site alteration.</li> <li>◆ Plan for the replacement of identified aged infrastructure to improve water quality delivery and the protection of the environment.</li> </ul>	
<b>Performance Targets</b>	
<ul style="list-style-type: none"> <li>◆ Compliance achieved/inspection ratings.</li> </ul>	





**2016 Business Plan**

**Works - Sanitary Sewerage System**

**Strategic Goal 3.4** - Support the co-ordination of growth with the provision of both hard and soft infrastructure and services.

**Responsibility** - Lead

**Key Deliverables**

- ◆ Ensure that an adequate supply of necessary services and infrastructure are available to accommodate anticipated levels of growth.
- ◆ Co-ordinate, where possible, Regional servicing to employment lands based upon the business planning process and support the aggressive marketing of this land in partnership with local area municipalities.

**Performance Targets**

- ◆ Infrastructure financing strategies implemented consistent with Regional processes.

**Strategic Goals**

**Responsibility** - Support

<b>Goal</b>	<b>Description</b>
<b>2.1</b>	Protect and enhance the environment for today and tomorrow through stewardship of our natural resources.
<b>2.6</b>	Develop a community-based action plan to mitigate and adapt to climate change, implementing strategies to use energy efficiently and reduce air and light pollution.
<b>3.1</b>	Ensure design that promotes sustainable communities, limiting sprawl through increased density within existing built boundaries and any new expansion areas, in accordance with Durham Region's Official Plan.
<b>4.5</b>	Strengthen accessibility to appropriate services which respond to the needs of our diverse community, including children, youth and the aging population.
<b>5.1</b>	Increase and strengthen intergovernmental co-operation and partnerships, including the sharing of resources.
<b>5.2</b>	Improve communication between the Region, residents and other levels of government and agencies, increasing awareness of Regional services.
<b>5.3</b>	Preserve Durham's strong fiscal position and administrative excellence.
<b>5.4</b>	Provide an environment that sustains an effective, motivated, healthy workforce.

## PROGRAM SUMMARY



### 2016 Business Plan

### Works - Sanitary Sewerage System

By Program	2015		2016		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<u>Expense Programs</u>	\$	\$	\$	\$	\$
<b>OPERATIONS:</b>					
1 Cleaning, Repairs and Maintenance Holes	1,629	1,664	1,664	34	1,698
2 Sewer Connections	2,329	2,002	2,003	409	2,412
3 Depot Operations	2,628	2,856	2,864	140	3,004
Subtotal	<b>6,586</b>	<b>6,522</b>	<b>6,531</b>	<b>583</b>	<b>7,114</b>
<b>PLANTS:</b>					
4 WPCPs and Pumping Stations	21,057	21,741	22,002	816	22,818
5 Duffin Creek WPCP					
(a) Management Committee	2,917	3,177	3,281	(19)	3,262
(b) Duffin Creek Plant	26,642	29,350	29,218	(1,197)	28,021
(c) Duffin Creek Tech Support	140	193	195	(9)	186
(d) Duffin Creek Administration	2,455	2,455	2,611	-	2,611
(e) Duffin Creek Facility	1,738	1,737	1,495	17	1,512
(f) York Contributions	(27,309)	(29,621)	(29,600)	993	(28,607)
Total Duffin Creek WPCP	6,583	7,291	7,200	(215)	6,985
Subtotal	<b>27,640</b>	<b>29,032</b>	<b>29,202</b>	<b>601</b>	<b>29,803</b>
<b>COMMON SERVICES:</b>					
6 Regional Environmental Laboratory	-	-	-	-	-
7 Engineering and Staff Support	6,318	6,382	6,477	(681)	5,796
8 Facilities Management	5,844	5,969	5,937	397	6,334
9 Administration	284	284	288	-	288
10 Headquarters Shared Cost	982	982	998	11	1,009
Subtotal	<b>13,428</b>	<b>13,617</b>	<b>13,700</b>	<b>(273)</b>	<b>13,427</b>
<b>Total Operating Program Expenses</b>	<b>47,654</b>	<b>49,171</b>	<b>49,433</b>	<b>911</b>	<b>50,344</b>

## PROGRAM SUMMARY



### 2016 Business Plan

### Works - Sanitary Sewerage System

By Program	2015		2016		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Tangible Capital Assets:</b>					
1S Duffin Creek WPCP - New	300	300	-	95	95
2S - Replacement	1,500	1,500	941	-	941
3S Environmental Lab - New	10	10	-	-	-
4S - Replacement	225	225	420	-	420
5S Facilities Management - New	148	148	-	91	91
6S - Replacement	627	627	63	-	63
7S Fleet/Equipment - New	99	99	-	144	144
8S - Replacement	319	319	357	-	357
9S Building - Replacement	311	311	-	-	-
10S Construction of Municipal Services	18,310	18,310	18,310	2,844	21,154
<b>Tangible Capital Assets Subtotal</b>	<b>21,849</b>	<b>21,849</b>	<b>20,091</b>	<b>3,174</b>	<b>23,265</b>
<b>Tangible Capital Assets Revenue &amp; Recoveries:</b>					
11S Duffin Creek WPCP TCA Revenue from York	(1,396)	(1,396)	(737)	(72)	(809)
12S Environmental Lab-TCA Revenue from York	(117)	(117)	(210)	-	(210)
<b>Tangible Capital Assets Revenue &amp; Recoveries Subtotal</b>	<b>(1,513)</b>	<b>(1,513)</b>	<b>(947)</b>	<b>(72)</b>	<b>(1,019)</b>
<b>Net Tangible Capital Assets</b>	<b>20,336</b>	<b>20,336</b>	<b>19,144</b>	<b>3,102</b>	<b>22,246</b>
<b>Net Program Expenses</b>	<b>67,990</b>	<b>69,507</b>	<b>68,577</b>	<b>4,013</b>	<b>72,590</b>
<b>Summary of Increase (Decrease)</b>			<b>(\$930)</b>	<b>-1.34%</b>	<b>\$3,083</b>
					<b>4.44%</b>

## PROGRAM SUMMARY



### 2016 Business Plan

### Works - Sanitary Sewerage System

#### Summary of Base Budget Changes

	\$	Comments
Salaries & Benefits	412	Economic increase
Salaries & Benefits	100	Annualization (1.886 position)
Payroll Recovery	200	Facilities Management adjustment to reflect actual planned recoveries
Operating Expenses	364	Inflationary increases in Hydro, Natural Gas, Insurance, Water & Sewer Services, Snow Removal, Property Taxes, and impact on York recovery
Minor Assets & Equipment	(41)	Reduced requirements
Major Repairs & Renovations	(773)	Reduced requirements
Tangible Capital Assets	<u>(1,192)</u>	Reduced requirements
	<u><u>(930)</u></u>	

## EXPLANATION OF PROGRAM CHANGES



### 2016 Program Changes

### Works - Sanitary Sewerage System

\$ 000's

#### Maintenance Operations

##### Cleaning, Repairs and Maintenance Holes

♦ Increase to reflect actual costs and forecasted requirements for labour and fleet utilization related to repair and maintenance activities	34
	<b>34</b>

##### Sewer Connections

♦ Increase to reflect actual costs and forecasted requirements for sewer connection cleaning and repairs	409
	<b>409</b>

#### Depot Operations

♦ Proposed new position representing 0.190 FTE, to start July 1, 2016:	
♦ One (1) Clerk 3 (Support Clerk) position at the Oshawa/Whitby Depot shared with General Tax and Water Supply. This position is required to address public inquiries, payment processing and other office administration duties (Annualized impact is \$13.8k) (0.190 FTE)	7
♦ Changes to reflect actual costs and forecasted requirements for labour and vehicles related to various sewer activities, including maintenance hole inspections (-\$4k), complaint investigations (\$14k), CCTV sewer inspections (\$4k) and other miscellaneous sewer maintenance (\$14k)	28
♦ Increase in sewer training requirements for Maintenance Operations support staff to familiarize them with changing sewer regulations in order to provide adequate support to field workers	20
♦ Increase in protective clothing related to arc flash requirements and alignment to historical actuals	3
♦ Increase in maintenance costs to address unanticipated breakdowns and repairs	10
♦ Adjustments to reflect actual costs and forecasted requirements in various Depot overhead accounts	14
♦ Increase to reflect re-distribution of resources across funds based on review of activities, offset by decreases in General Tax and Water Supply	58
	<b>140</b>

#### Water Pollution Control Plants and Pumping Stations

##### Corbett Creek WPCP

♦ Redistribution of fleet costs based on assignment of vehicles to various sewer plants	231
♦ Increase in Major Repairs and Renovations for biosolids storage clean-out	500
♦ Increase in Plant Information Systems (PIS) costs based on assignment of resources to the Plants	4
♦ Increase in cost of sludge disposal based on renewed contract	8
	<b>743</b>

## EXPLANATION OF PROGRAM CHANGES



### 2016 Program Changes

### Works - Sanitary Sewerage System

\$ 000's

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

##### Courtice WPCP

♦ Reduction in temporary pay and overtime based on review of actuals	(28)
♦ Increase in hardware maintenance and software licensing costs related to new SCADA equipment	14
♦ Redistribution of fleet costs based on assignment of vehicles to various sewer plants	(2)
♦ Increase in sludge haulage costs based on review of historical actuals and forecasted requirements	164
♦ Increase in PIS costs based on assignment of resources to the Plants	2
♦ Increase in cost of sludge disposal based on renewed contract	6
♦ Increase in revenues for Sewage Dumping Fees and property lease	(66)
♦ Adjustments to reflect actual costs and forecasted requirements in various accounts	63
	<b>153</b>

##### Newcastle WPCP

♦ Increase in overtime requirements due to ongoing projects related to the expansion of the Plant	15
♦ Redistribution of fleet costs based on assignment of vehicles to various sewer plants	12
♦ Reduction in sludge haulage costs due to operational changes that results in less haulage requirements	(35)
♦ Increase in PIS costs based on assignment of resources to the Plants	5
♦ Adjustments to reflect actual costs and forecasted requirements in various accounts	1
	<b>(2)</b>

##### Port Darlington WPCP

♦ Increase in disinfection chemicals due to introduction of more rigorous year-round chlorination/dechlorination process as mandated by the Ministry of Environment and Climate Change (MOECC)	32
♦ Redistribution of fleet costs based on assignment of vehicles to various sewer plants	(3)
♦ Acquisition of Minor Assets and Equipment - Acid Wash Diffusers	25
♦ Increase in PIS costs based on assignment of resources to the Plants	7
♦ Increase in cost of sludge disposal based on renewed contract	6
♦ Adjustments to reflect actual costs and forecasted requirements in various accounts	4
	<b>71</b>

##### Harmony Creek WPCP

♦ Redistribution of fleet costs based on assignment of vehicles to various sewer plants	38
♦ Increase in PIS costs based on assignment of resources to the Plants	3
♦ Increase in cost of sludge disposal based on renewed contract	2
♦ Adjustments to reflect actual costs and forecasted requirements in various accounts	1
♦ Reduction in sewage dumping fees based on review of historical actuals	50
	<b>94</b>

##### Uxbridge, Scugog, Brock WPCP

♦ Increase in costs related to the Nonquon WPCP expansion, including overtime, staff training, small tools, office materials, and equipment rentals	29
♦ Increase in software licensing costs related to new SCADA equipment	11
♦ Increase in cost of equipment maintenance repairs based on review of historical actuals	15
♦ Redistribution of fleet costs based on assignment of vehicles to various sewer plants	(15)
♦ Increase in PIS costs based on assignment of resources to the Plants	4
♦ Increase in cost of sludge disposal based on renewed contract	4
♦ Adjustments to reflect actual costs and forecasted requirements in various accounts	(2)
	<b>46</b>

## EXPLANATION OF PROGRAM CHANGES



### 2016 Program Changes

### Works - Sanitary Sewerage System

\$ 000's

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

##### Pumping Stations

♦ Increase to set up budgets for GPS units assigned to Pumping Stations	6
♦ Increase in hardware maintenance and software licensing costs related to new SCADA equipment	12
♦ Redistribution of fleet costs based on assignment of vehicles to various sewer plants	(310)
♦ Increase in PIS costs based on assignment of resources to the Plants	1
♦ Adjustment to reflect actual costs and forecasted requirements in various accounts	2
	<b>(289)</b>

**Total Water Pollution Control Plants and Pumping Stations** **816**

##### Duffin Creek WPCP

♦ Monthly revenue related to leasing of radio towers	(18)
♦ Personnel cost adjustments to reflect anticipated requirements including the removal of gapping (\$70k) and decreases in overtime and sick leave payout (-\$186k)	(116)
♦ Decrease in education and training, program materials, and purchased services based on operational review of future requirements	(360)
♦ Increase in protective clothing related to arc flash requirements and alignment to historical actuals	12
♦ Decrease in chemicals based on review of historical actuals	(285)
♦ Decrease in waste disposal costs due to process change at the plant	(235)
♦ Increase in equipment maintenance repairs	50
♦ Decrease in fleet usage costs based on review of historical actuals and future requirements	(29)
♦ Increase in consulting costs	100
♦ Decrease in PIS costs based on assignment of resources to the Plants	(78)
♦ Decrease in Environmental Lab expenditures based on review of testing requirements	(25)
♦ Increase in recoveries for sludge disposal from other WPCPs	(26)
♦ Increase in sewage dumping fees based on a 4.9% increase in the rate	(69)
♦ Removal of cross-charge for Administrative support from Technical Support	(9)
♦ Increase in facility costs due to plant expansion	17
♦ Increase in equipment maintenance & repairs related to increased pump inspections required at Influent Pumping Station	50
♦ Removal of consulting budget for Influent Pumping Station as this cost will not be required	(150)
♦ Adjustments to reflect actual costs and forecasted requirements in various accounts	(37)
♦ Decrease in recovery from York Region due to revised recovery rate, reflecting prior year sewage flows from the respective Regions and a reduction in operating expenses	993
	<b>(215)</b>

##### Regional Environmental Laboratory

♦ Increase in temporary and part-time costs to cover maternity leaves	30
♦ Removal of full-time gapping budget	(55)
♦ Decrease in technical materials to reflect actual costs and forecasted requirements	(25)
♦ Adjustments to reflect actual costs and forecasted requirements in various accounts	9
♦ Increase in recoveries from external customers due to increased sample testing related to more stringent standards, which will offset the above increases in expenditures	41
	<b>-</b>

# EXPLANATION OF PROGRAM CHANGES



## 2016 Program Changes

## Works - Sanitary Sewerage System

\$ 000's

### Engineering and Staff Support

<ul style="list-style-type: none"> <li>◆ Proposed new position representing 0.257 FTE, to start July 1, 2016:                             <ul style="list-style-type: none"> <li>◆ One (1) Technical Assistant (Records) in Construction to review and organize as-built records submitted for subdivision, municipal and capital projects; and to manage increased workload related to GIS system maintenance. This position is shared with General Tax and Water Supply (Annualized impact is \$20.4k) (0.257 FTE)</li> </ul> </li> <li>◆ Increase in vehicle gas and fleet maintenance based on review of historical actuals</li> <li>◆ Increase in consulting for Technical Support to explore the treatment process related to Cyano Toxins and the use of Granular Activated Carbon</li> <li>◆ Removal of budget in Data System Management for map updates due to completion of work</li> <li>◆ Adjustments to reflect actual costs and forecasted requirements in various accounts</li> <li>◆ Decrease to reflect re-distribution of resources across funds and divisions based on review of activities, offset by increases in General Tax, Water Supply, and Solid Waste Management</li> </ul>	<p style="margin: 0;">10</p> <p style="margin: 0;">19</p> <p style="margin: 0;">37</p> <p style="margin: 0;">(71)</p> <p style="margin: 0;">15</p> <p style="margin: 0;">(691)</p> <p style="margin: 0;"><b>(681)</b></p>
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### Facilities Management

<ul style="list-style-type: none"> <li>◆ Proposed new position representing 0.386 FTE, to start July 1, 2016:                             <ul style="list-style-type: none"> <li>◆ One (1) Contract Service Coordinator to provide necessary program support for the administration of corporate facility contracts. This position is shared with General Tax, Water Supply and Solid Waste Management operations (Annualized impact is \$33.4k) (0.386 FTE)</li> </ul> </li> <li>◆ Increases to reflect actual costs and forecasted requirements in various payroll accounts</li> <li>◆ Increase in software licensing costs for new Asset Management software</li> <li>◆ Increase in professional fees to fund site master plans at the Ajax, Oshawa, and Sunderland Depots</li> <li>◆ Major repairs and renovations of assets utilized in the provision of services, such as Paving Improvements at Burns St. Sewerage Pumping Station (\$35k) and Lighting Improvements at Corbett Creek WPCP (\$9k)</li> <li>◆ Adjustments to various accounts to reflect actual costs and forecasted requirements</li> <li>◆ Increase to reflect re-distribution of resources across funds based on review of activities, offset by decreases in General Tax, Water Supply, and Waste Management</li> </ul>	<p style="margin: 0;">17</p> <p style="margin: 0;">38</p> <p style="margin: 0;">15</p> <p style="margin: 0;">29</p> <p style="margin: 0;">44</p> <p style="margin: 0;">(11)</p> <p style="margin: 0;">265</p> <p style="margin: 0;"><b>397</b></p>
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### Headquarters Shared Cost

<ul style="list-style-type: none"> <li>◆ Share of costs related to the operation and maintenance of the Regional Headquarters</li> </ul>	<p style="margin: 0;">11</p> <p style="margin: 0;"><b>11</b></p>
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### Tangible Capital Assets

<ul style="list-style-type: none"> <li>◆ Program changes include acquisition of new assets, increases in replacement of assets and construction of municipal services, related to depot operations, plant and facilities management, fleet and equipment and construction projects. Refer to capital schedules for detailed information</li> </ul>	<p style="margin: 0;"><b>3,102</b></p>
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**Total Program Changes** 4,013

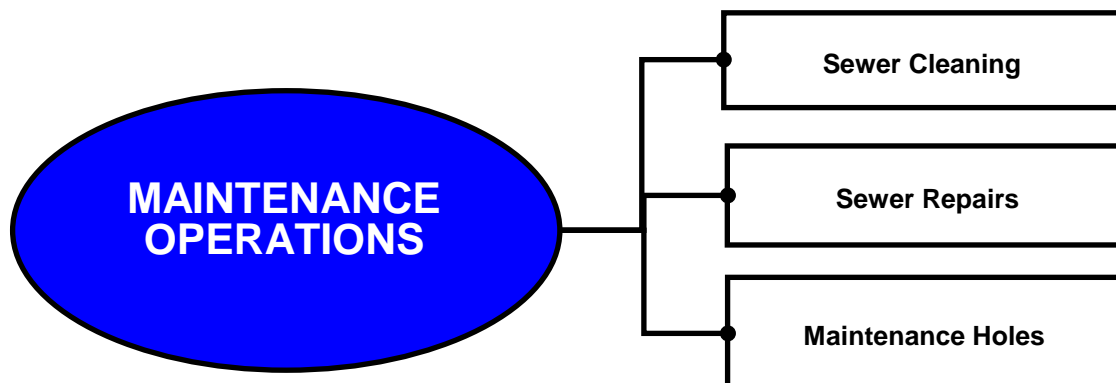


# PROGRAM 1 CLEANING, REPAIRS AND MAINTENANCE HOLES



## 2016 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 164,760 customers
- ◆ To prevent public health hazards and inconvenience through interruption of service

### Description of Program Activities:

- ◆ The Region maintains and operates 2,038 km of gravity sanitary sewer
- ◆ 1,685 km of sanitary sewers up to 300 mm in size are cleaned by hydrojet once every 2 years
- ◆ 230 km of sanitary sewers from 350 mm to 600 mm in size are cleaned once every 4 years
- ◆ 123 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



## 2016 Program Detail

## Works - Sanitary Sewerage System

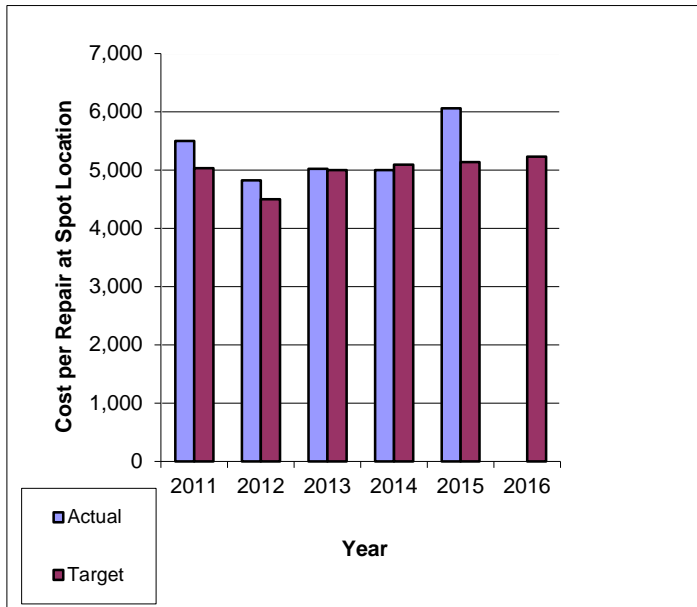
### Units of Service:

- ◆ Cleaning by Hydrojet (km)
- ◆ Repairs at Spot Locations
- ◆ Major Maintenance Hole Repairs

	Target	Proj Actual	Target
	2015	2015	2016
◆ Cleaning by Hydrojet (km)	866	850	866
◆ Repairs at Spot Locations	22	17	22
◆ Major Maintenance Hole Repairs	346	247	346

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:



#### Repairs at Spot Locations

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

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



**2016 Program Detail**

**Works - Sanitary Sewerage System**

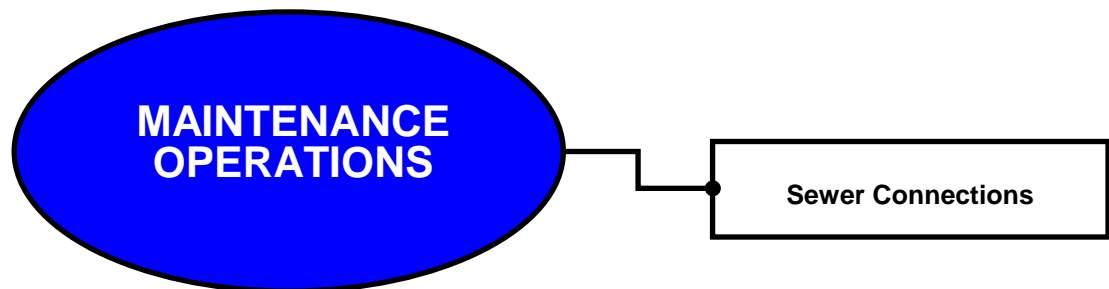
<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</b>		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
Cleaning by Hydrojet	652	632	632	28	660
Cleaning any Method Non- Programed	236	275	275	6	281
Rehab-Repair - Contractor	66	119	119	(3)	116
Repairs at Spot Location	103	113	113	2	115
Major Maintenance Hole Repair	572	525	525	1	526
<b>Net Program Expenses</b>	<b>1,629</b>	<b>1,664</b>	<b>1,664</b>	<b>34</b>	<b>1,698</b>

## PROGRAM 2 SEWER CONNECTIONS



### 2016 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 164,760 customers.
- ◆ To prevent public health hazards and inconvenience through interruption of service

#### Description of Program Activities:

- ◆ Sanitary sewer service connections serving residential and non-residential buildings are budgeted to be cleaned
- ◆ New sanitary sewer service connections are budgeted to be installed as required
- ◆ Sanitary sewer service connections are budgeted to be 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**



**2016 Program Detail**

**Works - Sanitary Sewerage System**

**Performance Measurements:**

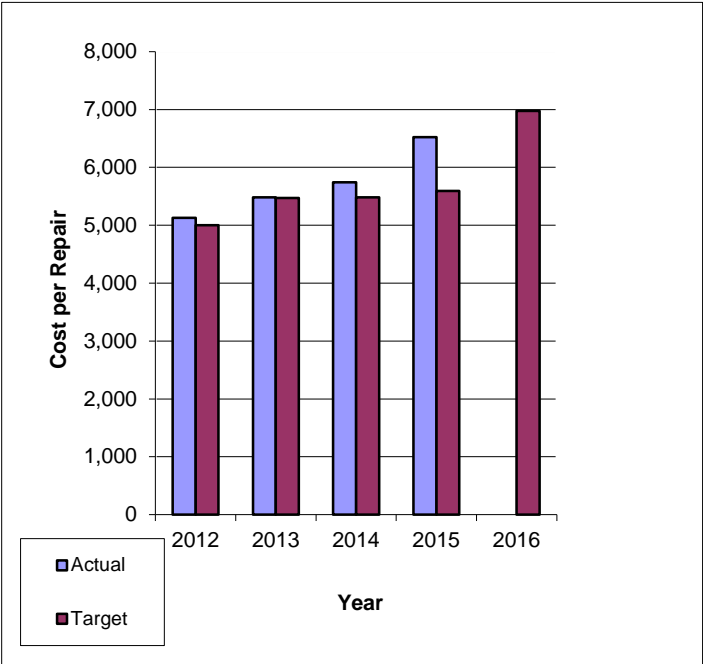
- ◆ Service connections are cleaned and repaired/replaced as stipulated in By-law #90-2003

**Units of Service**

- ◆ Unscheduled Cleaning of Sewer Connections
- ◆ Connection Repairs

Target 2015	Proj Actual 2015	Target 2016
1,128	989	1,128
286	298	288

**Efficiency**



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

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

**PROGRAM 2  
SEWER CONNECTIONS**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

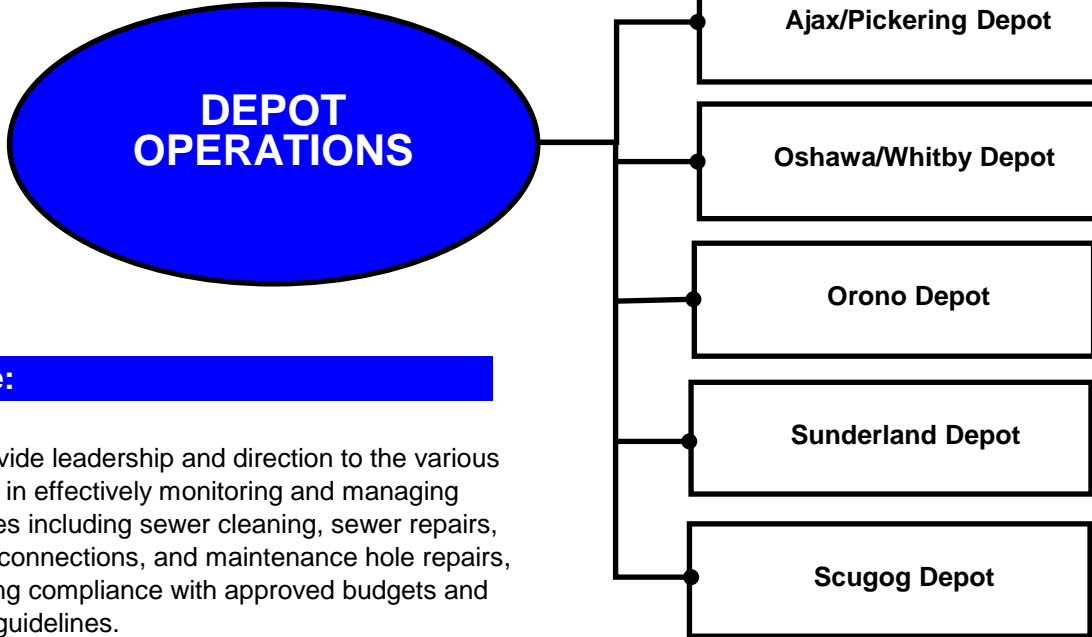
Detailed Cost of Program:	2015		2016		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
Connection Cleaning	386	400	400	3	403
Flat Rate Install Sewer	-	2	-	-	-
Connection Repair	1,943	1,600	1,603	406	2,009
<b>Net Program Expenses</b>	<b>2,329</b>	<b>2,002</b>	<b>2,003</b>	<b>409</b>	<b>2,412</b>

# PROGRAM 3 DEPOT OPERATIONS



## 2016 Program Detail

## Works - Sanitary Sewerage System



### Purpose:

- ◆ To provide leadership and direction to the various depots in 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 the administrative services required to complete the sewer activities (i.e. Sewer cleaning, repairs, maintenance holes, sewer connections and general and overhead maintenance).
- ◆ Maintain proper inventory records.

### Description of Program Resources:

- ◆ 2016 Full Time Employees 7.468
- ◆ 2015 Full Time Employees 6.839 (Restated)

0.439 FTEs redistributed across funds to match work effort across depot activities

One (1) Clerk 3 (Support Clerk) at the Oshawa Depot to address public inquiries, payment processing and other office administration duties. This position is shared with Water Supply and General Tax. (0.190 FTE)

**PROGRAM 3  
DEPOT OPERATIONS**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	797	761	773	71	844
Payroll Maintenance Management - Charge	1,026	1,135	1,143	9	1,152
Payroll Maintenance Management - Recovery	(12)	(22)	(22)	-	(22)
<b>Net Personnel Expenses</b>	<b>1,811</b>	<b>1,874</b>	<b>1,894</b>	<b>80</b>	<b>1,974</b>
Personnel Related	152	159	159	31	190
Communications	73	89	89	3	92
Supplies	283	266	266	78	344
Materials & Services	15	59	54	(3)	51
Buildings & Grounds Operations	10	50	50	10	60
Equipment Maintenance & Repairs	1	-	-	-	-
Vehicle Operations	392	476	476	(39)	437
Professional Services	-	1	1	-	1
Leased Facilities Expenses	2	3	3	-	3
Minor Assets & Equipment	10	4	-	-	-
Contribution to Reserve & Reserve Funds	8	8	8	(4)	4
<b>Operating Expenses Subtotal</b>	<b>2,757</b>	<b>2,989</b>	<b>3,000</b>	<b>156</b>	<b>3,156</b>
<b>Transfers from Related Entities</b>					
NextGen Charges	4	6	7	(2)	5
<b>Transfers from Related Entities Subtotal</b>	<b>4</b>	<b>6</b>	<b>7</b>	<b>(2)</b>	<b>5</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Recovery from Fleet	(84)	(79)	(83)	(14)	(97)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(84)</b>	<b>(79)</b>	<b>(83)</b>	<b>(14)</b>	<b>(97)</b>
<b>Gross Operating Expenses</b>	<b>2,677</b>	<b>2,916</b>	<b>2,924</b>	<b>140</b>	<b>3,064</b>



**PROGRAM 3  
DEPOT OPERATIONS**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Restated Budget	Base Budget	Program Change	Proposed Budget
<b>Tangible Capital Assets</b>					
New	50	50	-	-	-
Replacement	27	27	-	-	-
<b>Total Tangible Capital Assets</b>	<b>77</b>	<b>77</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total Expenses</b>	<b>2,754</b>	<b>2,993</b>	<b>2,924</b>	<b>140</b>	<b>3,064</b>
<b>Revenues</b>					
Fees & Service Charges	(45)	(60)	(60)	-	(60)
Sundry Revenue	(4)	-	-	-	-
<b>Total Revenues</b>	<b>(49)</b>	<b>(60)</b>	<b>(60)</b>	<b>-</b>	<b>(60)</b>
<b>Net Program Expenses</b>	<b>2,705</b>	<b>2,933</b>	<b>2,864</b>	<b>140</b>	<b>3,004</b>

\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	3,064
Less: Revenues Per Above	(60)
Net Operating Program Expenses Per Program Summary	3,004
Add: Tangible Capital Assets	-
Net Program Expenses Per Above	<u>3,004</u>

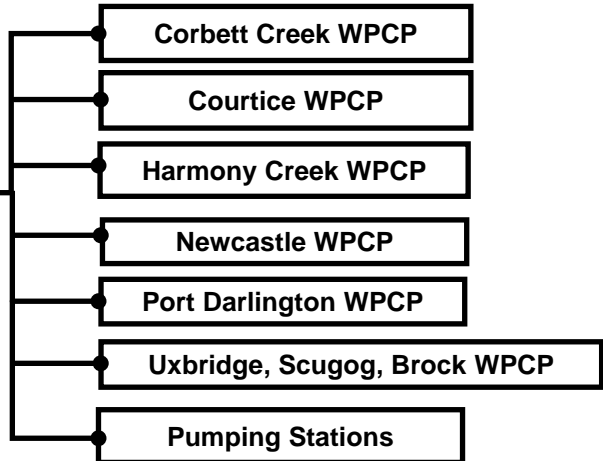
# PROGRAM 4

## WATER POLLUTION CONTROL PLANTS AND PUMPING STATIONS



### 2016 Program Detail

### Works - Sanitary Sewerage System



#### Purpose:

- ◆ To treat sanitary sewage and ensure that it meets or exceeds all Ministry of Environment and Climate Change (MOECC) discharge requirements
- ◆ To operate and maintain the 48 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 MOECC Certificates of Approval as issued for each pumping station
- ◆ 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 MOECC Certificate of Approval / 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:

- ◆ 2016 Full Time Employees                      57.250
- ◆ 2015 Full Time Employees                      57.250 (Restated)

# PROGRAM 4

## WATER POLLUTION CONTROL PLANTS AND PUMPING STATIONS



### 2016 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 2015	Proj Actual 2015	Target 2016
59,205	53,929	58,301
0	0	0
330	362	330

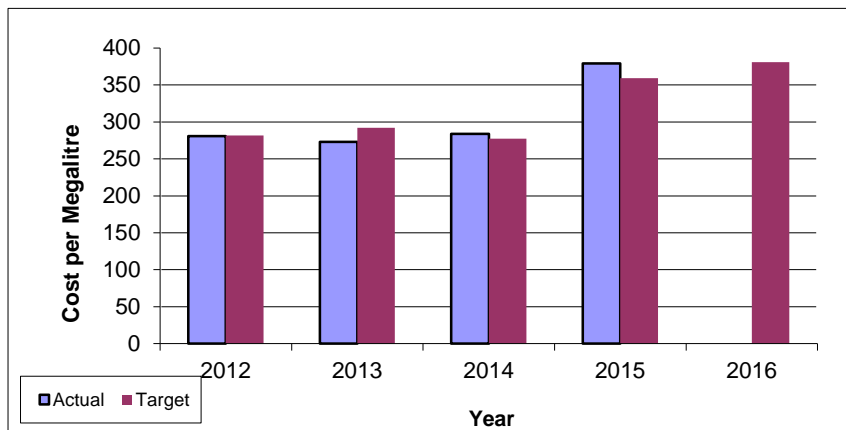
##### Pumping Stations

- a Number of Emergency Callouts
- b Number of Overflows

Target 2015	Proj Actual 2015	Target 2016
220	205	200
0	0	0

#### Efficiency:

##### Cost per Megalitre of Treated Sanitary Sewerage at WPCPs



**PROGRAM 4  
WPCPs AND PUMPING STATIONS**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program:	2015		2016		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	6,543	6,208	6,321	(1)	6,320
Personnel Related	159	186	186	26	212
Communications	126	177	177	10	187
Supplies	1,156	1,010	1,010	10	1,020
Utilities	4,652	5,392	5,864	-	5,864
Medical Care	-	1	1	-	1
Chemicals	1,355	1,498	1,498	66	1,564
Computer Maintenance & Operations	84	51	51	46	97
Materials & Services	215	329	329	9	338
Equipment Maintenance & Repairs	485	719	719	15	734
Vehicle Operations	561	598	598	(55)	543
Professional Services	22	47	47	-	47
Contracted Services	2,744	2,241	2,261	129	2,390
Minor Assets & Equipment	66	60	5	25	30
Major Repairs & Renovations	394	394	78	500	578
<b>Operating Expenses Subtotal</b>	<b>18,562</b>	<b>18,911</b>	<b>19,145</b>	<b>780</b>	<b>19,925</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-PIS Group Charge	629	543	577	26	603
Works-Regional Environmental Lab Charge	357	424	424	-	424
Works-Sludge Disposal Charge	1,396	1,765	1,765	26	1,791
Works-Biosolids Services Charge	279	290	283	-	283
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>2,661</b>	<b>3,022</b>	<b>3,049</b>	<b>52</b>	<b>3,101</b>
<b>Gross Operating Expenses</b>	<b>21,223</b>	<b>21,933</b>	<b>22,194</b>	<b>832</b>	<b>23,026</b>

**PROGRAM 4  
WPCPs AND PUMPING STATIONS**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Proposed Budget</b>
<b>Tangible Capital Assets</b>					
New	-	-	-	54	54
Replacement	205	205	288	-	288
<b>Total Tangible Capital Assets</b>	<b>205</b>	<b>205</b>	<b>288</b>	<b>54</b>	<b>342</b>
<b>Total Expenses</b>	<b>21,428</b>	<b>22,138</b>	<b>22,482</b>	<b>886</b>	<b>23,368</b>
<b>Revenues</b>					
Fees & Service Charges	(154)	(192)	(192)	(13)	(205)
Rents	(2)	-	-	-	-
Sundry Revenue	(10)	-	-	(3)	(3)
<b>Total Revenues</b>	<b>(166)</b>	<b>(192)</b>	<b>(192)</b>	<b>(16)</b>	<b>(208)</b>
<b>Net Program Expenses</b>	<b>21,262</b>	<b>21,946</b>	<b>22,290</b>	<b>870</b>	<b>23,160</b>

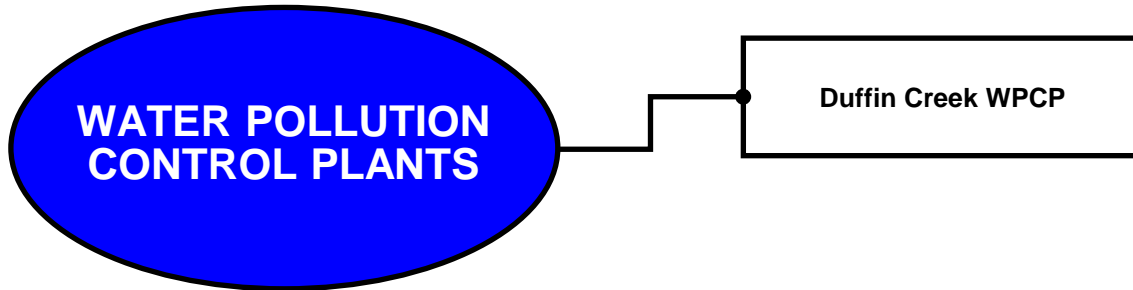
\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	23,026
Less: Revenues Per Above	(208)
Net Operating Program Expenses Per Program Summary	22,818
Add: Tangible Capital Assets	342
Net Program Expenses Per Above	<u>23,160</u>



**2016 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 and Climate Change (MOECC) 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 MOECC Certificate of Approval / Environmental Compliance Approval
- ◆ Ensure that the required staff training occurs

**Description of Program Resources:**

- ◆ 2016 Full Time Employees      81.530
- ◆ 2015 Full Time Employees      81.530



2016 Program Detail

Works - Sanitary Sewerage System

Performance Measurements:

PLANT

- ◆ 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 MOECC 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 MOECC Certificate of Approval for this facility
- ◆ Cost of operation of the facility

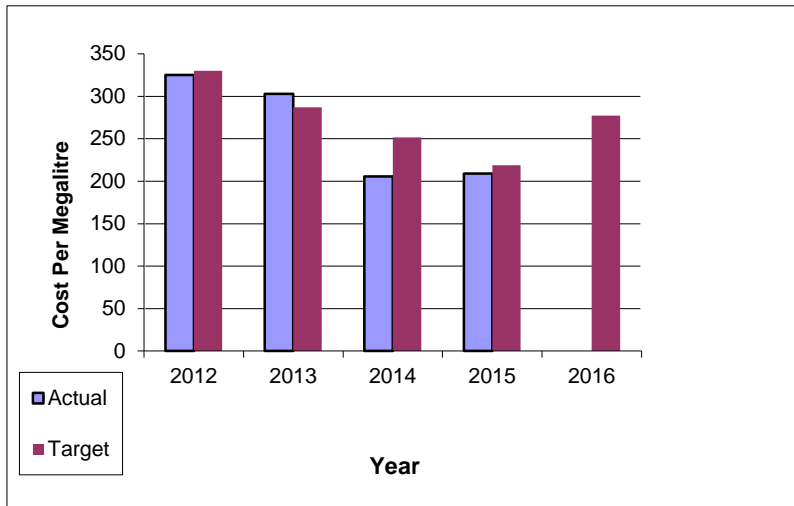
Units of Service

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

Target 2015	Proj Actual 2015	Target 2016
26,244	23,670	23,750
150	182	175

Efficiency:

Cost per Megalitre of Treated Sanitary Sewerage



**PROGRAM 5  
SUMMARY DUFFIN CREEK WPCP**



**2016 Business Plan**

**Works - Sanitary Sewerage  
System**

<b>By Program</b>	<b>2015</b>		<b>2016</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Proposed Budget</b>
5 Duffin Creek WPCP					
(a) Management Committee	2,917	3,177	3,281	(19)	3,262
(b) Duffin Creek Plant	26,642	29,350	29,218	(1,197)	28,021
(c) Duffin Creek Tech Support	140	193	195	(9)	186
(d) Duffin Creek Administration	2,455	2,455	2,611	-	2,611
(e) Duffin Creek Facility	1,738	1,737	1,495	17	1,512
(f) York Contributions	(27,309)	(29,621)	(29,600)	993	(28,607)
<b>Total Duffin Creek WPCP</b>	<b>6,583</b>	<b>7,291</b>	<b>7,200</b>	<b>(215)</b>	<b>6,985</b>

\* TCA is stated separately on the Program Summary



**PROGRAM 5A  
DUFFIN CREEK MANAGEMENT COMMITTEE**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	41	40	40	-	40
Personnel Related	1	2	2	(1)	1
Supplies	-	1	1	-	1
Professional Services	31	250	250	-	250
Financial Expenses	254	254	285	-	285
Property Taxes	2,614	2,630	2,703	-	2,703
<b>Gross Operating Expenses</b>	<b>2,941</b>	<b>3,177</b>	<b>3,281</b>	<b>(1)</b>	<b>3,280</b>
<b>Revenues</b>					
Rents	(18)	-	-	(18)	(18)
Sundry Revenue	(6)	-	-	-	-
Revenue from York	(1,955)	(2,088)	(2,154)	10	(2,144)
<b>Total Revenues</b>	<b>(1,979)</b>	<b>(2,088)</b>	<b>(2,154)</b>	<b>(8)</b>	<b>(2,162)</b>
<b>Net Program Expenses</b>	<b>962</b>	<b>1,089</b>	<b>1,127</b>	<b>(9)</b>	<b>1,118</b>

\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	3,280
Less: Rents Per Above	(18)
Net Operating Program Expenses Per Program Summary	3,262
Add: Tangible Capital Assets	-
Less: Revenue from York	(2,144)
Net Program Expenses Per Above	1,118

**PROGRAM 5B  
DUFFIN CREEK PLANT**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	8,045	8,245	8,347	(123)	8,224
Personnel Related	180	299	299	(75)	224
Communications	69	101	101	(5)	96
Supplies	1,097	1,546	1,546	(246)	1,300
Utilities	11,774	11,775	11,718	-	11,718
Chemicals	3,287	4,330	4,330	(285)	4,045
Computer Maintenance & Operations	13	11	11	4	15
Materials & Services	1,786	2,517	2,517	(278)	2,239
Equipment Maintenance & Repairs	1,171	1,219	1,220	91	1,311
Vehicle Operations	107	139	139	(29)	110
Professional Services	145	300	300	(50)	250
Financial Expenses	312	312	350	-	350
Property Taxes	-	-	17	-	17
Minor Assets & Equipment	-	-	35	-	35
Major Repairs & Renovations	443	443	175	-	175
Contribution to Reserve & Reserve Funds	400	400	400	-	400
<b>Operating Expenses Subtotal</b>	<b>28,829</b>	<b>31,637</b>	<b>31,505</b>	<b>(996)</b>	<b>30,509</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-PIS Group Charge	493	648	648	(78)	570
Works-Regional Environmental Lab Charge	158	200	200	(25)	175
Works-Facilities Management Charge	30	30	30	-	30
Recovery - Works-Sludge Disposal	(1,396)	(1,765)	(1,765)	(26)	(1,791)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(715)</b>	<b>(887)</b>	<b>(887)</b>	<b>(129)</b>	<b>(1,016)</b>
<b>Gross Operating Expenses</b>	<b>28,114</b>	<b>30,750</b>	<b>30,618</b>	<b>(1,125)</b>	<b>29,493</b>

**PROGRAM 5B  
DUFFIN CREEK PLANT**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Proposed Budget</b>
<b>Tangible Capital Assets</b>					
New	300	300	-	95	95
Replacement	1,150	1,150	785	-	785
TCA Financing from York	(1,123)	(1,123)	(616)	(72)	(688)
<b>Total Tangible Capital Assets</b>	<b>327</b>	<b>327</b>	<b>169</b>	<b>23</b>	<b>192</b>
<b>Total Expenses</b>	<b>28,441</b>	<b>31,077</b>	<b>30,787</b>	<b>(1,102)</b>	<b>29,685</b>
<b>Revenues</b>					
Fees & Service Charges	(1,400)	(1,400)	(1,400)	(69)	(1,469)
Sundry Revenue	(72)	-	-	(3)	(3)
Revenue from York	(21,845)	(23,987)	(23,956)	989	(22,967)
<b>Total Revenues</b>	<b>(23,317)</b>	<b>(25,387)</b>	<b>(25,356)</b>	<b>917</b>	<b>(24,439)</b>
<b>Net Program Expenses</b>	<b>5,124</b>	<b>5,690</b>	<b>5,431</b>	<b>(185)</b>	<b>5,246</b>

\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	29,493
Less: Fees & Service Charges Per Above	(1,469)
Less: Sundry Revenue Per Above	(3)
Net Operating Program Expenses Per Program Summary	<u>28,021</u>
Add: Tangible Capital Assets	192
Less: Revenue from York	<u>(22,967)</u>
Net Program Expenses Per Above	<u><u>5,246</u></u>

**PROGRAM 5B1  
DUFFIN CREEK PLANT - EXCLUDING IPS**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	7,969	8,175	8,275	(123)	8,152
Personnel Related	180	269	269	(75)	194
Communications	69	101	101	(5)	96
Supplies	1,097	1,521	1,520	(246)	1,274
Utilities	10,813	10,813	10,757	-	10,757
Chemicals	3,287	4,330	4,330	(285)	4,045
Computer Maintenance & Operations	13	11	11	4	15
Materials & Services	1,786	2,516	2,516	(278)	2,238
Equipment Maintenance & Repairs	1,063	1,169	1,170	41	1,211
Vehicle Operations	106	139	139	(29)	110
Professional Services	45	150	150	100	250
Financial Expenses	312	312	350	-	350
Minor Assets & Equipment	-	-	35	-	35
Major Repairs & Renovations	443	443	175	-	175
Contribution to Reserve & Reserve Funds	400	400	400	-	400
<b>Operating Expenses Subtotal</b>	<b>27,583</b>	<b>30,349</b>	<b>30,198</b>	<b>(896)</b>	<b>29,302</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-PIS Group Charge	493	648	648	(78)	570
Works-Regional Environmental Lab Charge	158	200	200	(25)	175
Recovery - Works-Sludge Disposal	(1,396)	(1,765)	(1,765)	(26)	(1,791)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(745)</b>	<b>(917)</b>	<b>(917)</b>	<b>(129)</b>	<b>(1,046)</b>
<b>Gross Operating Expenses</b>	<b>26,838</b>	<b>29,432</b>	<b>29,281</b>	<b>(1,025)</b>	<b>28,256</b>

**PROGRAM 5B1  
DUFFIN CREEK PLANT - EXCLUDING IPS**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Proposed Budget</b>
<b>Tangible Capital Assets</b>					
New	300	300	-	95	95
Replacement	1,150	1,150	785	-	785
TCA Financing from York	(1,123)	(1,123)	(616)	(72)	(688)
<b>Total Tangible Capital Assets</b>	<b>327</b>	<b>327</b>	<b>169</b>	<b>23</b>	<b>192</b>
<b>Total Expenses</b>	<b>27,165</b>	<b>29,759</b>	<b>29,450</b>	<b>(1,002)</b>	<b>28,448</b>
<b>Revenues</b>					
Fees & Service Charges	(1,400)	(1,400)	(1,400)	(69)	(1,469)
Sundry Revenue	(22)	-	-	(3)	(3)
Revenue from York	(20,619)	(22,669)	(22,619)	889	(21,730)
<b>Total Revenues</b>	<b>(22,041)</b>	<b>(24,069)</b>	<b>(24,019)</b>	<b>817</b>	<b>(23,202)</b>
<b>Net Program Expenses</b>	<b>5,124</b>	<b>5,690</b>	<b>5,431</b>	<b>(185)</b>	<b>5,246</b>

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



**2016 Program Detail**

**Works - Sanitary Sewerage System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	77	70	72	-	72
Personnel Related	-	30	30	-	30
Supplies	-	25	25	-	25
Utilities	962	962	962	-	962
Materials & Services	-	1	1	-	1
Equipment Maintenance & Repairs	107	50	50	50	100
Professional Services	100	150	150	(150)	-
Property Taxes	-	-	17	-	17
<b>Operating Expenses Subtotal</b>	<b>1,246</b>	<b>1,288</b>	<b>1,307</b>	<b>(100)</b>	<b>1,207</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-Facilities Management Charge	30	30	30	-	30
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>-</b>	<b>30</b>
<b>Gross Operating Expenses</b>	<b>1,276</b>	<b>1,318</b>	<b>1,337</b>	<b>(100)</b>	<b>1,237</b>
<b>Revenues</b>					
Sundry Revenue	(50)	-	-	-	-
Revenue from York	(1,226)	(1,318)	(1,337)	100	(1,237)
<b>Total Revenues</b>	<b>(1,276)</b>	<b>(1,318)</b>	<b>(1,337)</b>	<b>100</b>	<b>(1,237)</b>
<b>Net Program Expenses</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**PROGRAM 5C  
DUFFIN CREEK TECH SUPPORT**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	140	184	186	-	186
<b>Operating Expenses Subtotal</b>	<b>140</b>	<b>184</b>	<b>186</b>	<b>-</b>	<b>186</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-Technical Support Charge	-	9	9	(9)	-
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>-</b>	<b>9</b>	<b>9</b>	<b>(9)</b>	<b>-</b>
<b>Gross Operating Expenses</b>	<b>140</b>	<b>193</b>	<b>195</b>	<b>(9)</b>	<b>186</b>
<b>Revenues</b>					
Revenue from York	(114)	(156)	(159)	8	(151)
<b>Total Revenues</b>	<b>(114)</b>	<b>(156)</b>	<b>(159)</b>	<b>8</b>	<b>(151)</b>
<b>Net Program Expenses</b>	<b>26</b>	<b>37</b>	<b>36</b>	<b>(1)</b>	<b>35</b>

\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	186
Net Operating Program Costs Expenses Per Program Summary	186
Less: Revenue from York	(151)
Net Program Expenses Per Above	<u>35</u>

**PROGRAM 5D  
DUFFIN CREEK ADMINISTRATION**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Proposed Budget</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-General Administration Charge	2,455	2,455	2,611	-	2,611
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>2,455</b>	<b>2,455</b>	<b>2,611</b>	<b>-</b>	<b>2,611</b>
<b>Gross Operating Expenses</b>	<b>2,455</b>	<b>2,455</b>	<b>2,611</b>	<b>-</b>	<b>2,611</b>
<b>Revenues</b>					
Revenue from York	(1,985)	(1,985)	(2,118)	-	(2,118)
<b>Total Revenues</b>	<b>(1,985)</b>	<b>(1,985)</b>	<b>(2,118)</b>	<b>-</b>	<b>(2,118)</b>
<b>Net Program Expenses</b>	<b>470</b>	<b>470</b>	<b>493</b>	<b>-</b>	<b>493</b>

\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	2,611
Net Operating Program Expenses Per Program Summary	2,611
Less: Revenue from York	(2,118)
Net Program Expenses Per Above	<u>493</u>



**PROGRAM 5E  
DUFFIN CREEK FACILITY**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Supplies	14	9	8	-	8
Materials & Services	29	21	21	-	21
Buildings & Grounds Operations	741	689	691	17	708
Equipment Maintenance & Repairs	34	45	45	-	45
Contracted Services	444	407	417	-	417
Major Repairs & Renovations	253	253	-	-	-
<b>Operating Expenses Subtotal</b>	<b>1,515</b>	<b>1,424</b>	<b>1,182</b>	<b>17</b>	<b>1,199</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-Facilities Management Charge	246	313	313	-	313
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>246</b>	<b>313</b>	<b>313</b>	<b>-</b>	<b>313</b>
<b>Gross Operating Expenses</b>	<b>1,761</b>	<b>1,737</b>	<b>1,495</b>	<b>17</b>	<b>1,512</b>
<b>Tangible Capital Assets</b>					
Replacement	350	350	156	-	156
TCA Financing from York	(272)	(272)	(121)	-	(121)
<b>Total Tangible Capital Assets</b>	<b>78</b>	<b>78</b>	<b>35</b>	<b>-</b>	<b>35</b>
<b>Total Expenses</b>	<b>1,839</b>	<b>1,815</b>	<b>1,530</b>	<b>17</b>	<b>1,547</b>
<b>Revenues</b>					
Sundry Revenue	(23)	-	-	-	-
Revenue from York	(1,410)	(1,405)	(1,213)	(14)	(1,227)
<b>Total Revenues</b>	<b>(1,433)</b>	<b>(1,405)</b>	<b>(1,213)</b>	<b>(14)</b>	<b>(1,227)</b>
<b>Net Program Expenses</b>	<b>406</b>	<b>410</b>	<b>317</b>	<b>3</b>	<b>320</b>

\* TCA is stated separately on the Program Summary

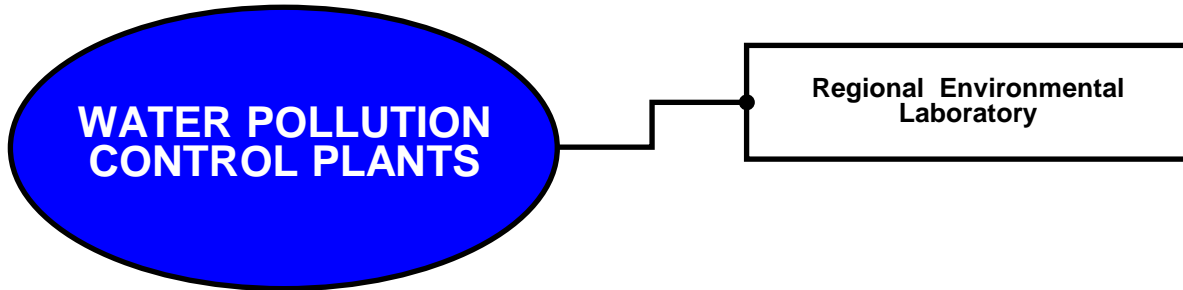
Gross Operating Expenses Per Above	1,512
Less: Sundry Revenue Per Above	-
Net Operating Program Expenses Per Program Summary	1,512
Add: Tangible Capital Assets	35
Less: Revenue from York	(1,227)
Net Program Expenses Per Above	<u>320</u>

# PROGRAM 6 REGIONAL ENVIRONMENTAL LABORATORY



## 2016 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 and Climate Change (MOECC) Certificate of Approvals for wastewater and drinking water licences
- ◆ 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:

- ◆ 2016 Full Time Employees 25.340
- ◆ 2015 Full Time Employees 25.340

### Performance Measurements:

- ◆ Compliance with ISO 17025 standard and accreditation criteria through audits by the Canadian Association for Laboratory Accreditation (CALA). The Laboratory is fully accredited by CALA and licensed by the MOECC
- ◆ 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**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	2,402	2,532	2,647	(25)	2,622
Personnel Related	36	72	71	-	71
Communications	-	2	2	1	3
Supplies	442	550	575	(25)	550
Utilities	9	7	10	-	10
Chemicals	47	25	30	-	30
Computer Maintenance & Operations	-	56	55	-	55
Materials & Services	158	109	109	2	111
Buildings & Grounds Operations	27	29	29	(3)	26
Equipment Maintenance & Repairs	115	160	153	-	153
Vehicle Operations	19	12	12	7	19
Professional Services	62	40	40	-	40
Contracted Services	15	15	15	-	15
Financial Expenses	1	2	2	(1)	1
Major Repairs & Renovations	-	27	-	-	-
Contribution to Reserve & Reserve Funds	125	125	125	-	125
<b>Operating Expenses Subtotal</b>	<b>3,458</b>	<b>3,763</b>	<b>3,875</b>	<b>(44)</b>	<b>3,831</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-General Administration Charge	143	143	143	-	143
Works-Facilities Management Charge	22	50	50	-	50
Recovery - Works-Regional Environmental Lab Service	(1,231)	(2,018)	(2,018)	507	(1,511)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(1,066)</b>	<b>(1,825)</b>	<b>(1,825)</b>	<b>507</b>	<b>(1,318)</b>
<b>Gross Operating Expenses</b>	<b>2,392</b>	<b>1,938</b>	<b>2,050</b>	<b>463</b>	<b>2,513</b>

**PROGRAM 6  
REGIONAL ENVIRONMENTAL LABORATORY**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Tangible Capital Assets</b>					
New	10	10	-	-	-
Replacement	225	225	420	-	420
TCA Financing from York	(118)	(118)	(210)	-	(210)
<b>Total Tangible Capital Assets</b>	<b>117</b>	<b>117</b>	<b>210</b>	<b>-</b>	<b>210</b>
<b>Total Expenses</b>	<b>2,509</b>	<b>2,055</b>	<b>2,260</b>	<b>463</b>	<b>2,723</b>
<b>Revenues</b>					
Sundry Revenue	(548)	(360)	(361)	3	(358)
Revenue from Regional Environmental Lab Operations	(1,844)	(1,578)	(1,689)	(466)	(2,155)
<b>Total Revenues</b>	<b>(2,392)</b>	<b>(1,938)</b>	<b>(2,050)</b>	<b>(463)</b>	<b>(2,513)</b>
<b>Net Program Expenses</b>	<b>117</b>	<b>117</b>	<b>210</b>	<b>-</b>	<b>210</b>

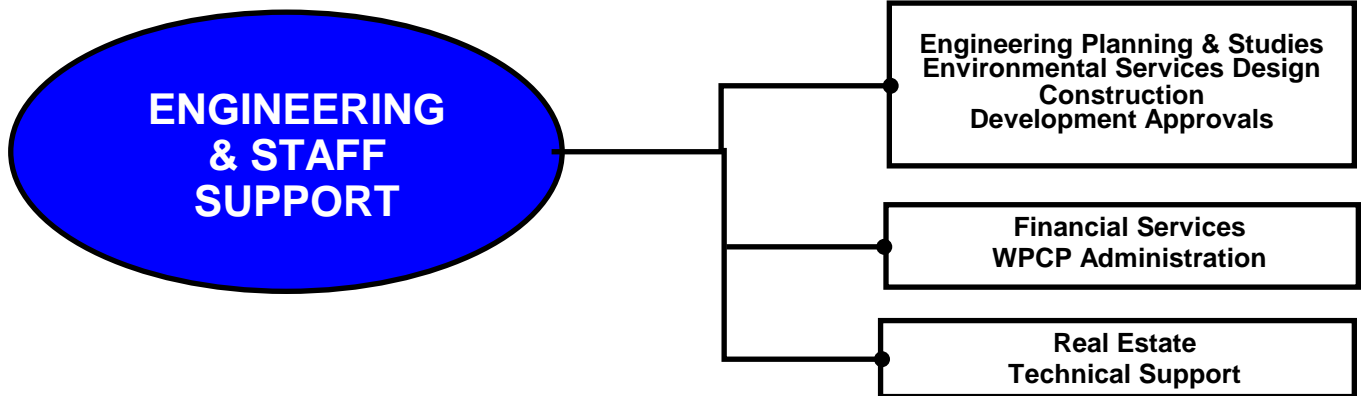
\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	2,513
Less: Revenues Per Above	<u>(2,513)</u>
Net Operating Program Expenses Per Program Summary	-
Add: Tangible Capital Assets	<u>210</u>
Net Program Expenses Per Above	<u><u>210</u></u>



2016 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

- ◆ 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 within the Works Department 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.

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.



## 2016 Program Detail

## Works - Sanitary Sewerage System

### Purpose: (continued)

#### 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

- ◆ 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, 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 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.



## 2016 Program Detail

## Works - Sanitary Sewerage System

### Description of Program Activities: (continued)

#### Construction (continued)

- ◆ 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.

#### 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.



**2016 Program Detail**

**Works - Sanitary  
Sewerage System**

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

Real Estate (continued)

- ◆ Compile and maintain records on all Region owned property including limited interest such as sewer and water 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 (including Landfill Monitoring):*  
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 and Energy Efficiency Programs:*  
The Water Efficiency program will continue to focus on the quantification of the Water and Energy Efficient Community project in Ajax, and continue the rain gauge distribution project.  
  
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.

**Description of Program Resources:**

- ◆ 2016 Full Time Employees            63.297
  - ◆ 2015 Full Time Employees            65.809            (Restated)
- 2.769 FTEs redistributed across funds to align with work effort across Divisions

One (1) Technical Assistant in Construction to review and organize as-built records submitted for subdivision, municipal and capital projects; and to manage increased workload related to GIS system maintenance. Shared with Water Supply and General Tax (0.257 FTE)





## **2016 Program Detail**

## **Works - Sanitary Sewerage System**

### **Performance Measurements:**

- ◆ Resources to provide staff for administration/engineering support. Also includes general office expenditures such as telephone costs and office supplies.
- ◆ 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**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	7,549	7,868	7,972	(895)	7,077
Payroll Maintenance Management - Charge	-	-	2	(1)	1
Payroll Maintenance Management - Recovery	(2,704)	(3,068)	(3,189)	388	(2,801)
<b>Net Personnel Expenses</b>	<b>4,845</b>	<b>4,800</b>	<b>4,785</b>	<b>(508)</b>	<b>4,277</b>
Personnel Related	262	292	293	(34)	259
Communications	109	162	163	(34)	129
Supplies	110	143	143	(41)	102
Computer Maintenance & Operations	146	151	151	1	152
Materials & Services	559	324	324	(81)	243
Equipment Maintenance & Repairs	358	360	359	(4)	355
Vehicle Operations	14	32	32	16	48
Professional Services	279	377	377	34	411
Bad Debt Expenses	-	3	3	(1)	2
Financial Expenses	22	43	44	-	44
Minor Assets & Equipment	9	9	-	-	-
Major Repairs & Renovations	-	1	-	-	-
Contribution to Reserve & Reserve Funds	5	4	5	3	8
<b>Operating Expenses Subtotal</b>	<b>6,718</b>	<b>6,701</b>	<b>6,679</b>	<b>(649)</b>	<b>6,030</b>

**PROGRAM 7  
ENGINEERING AND STAFF SUPPORT**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Restated Budget	Base Budget	Program Change	Proposed Budget
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Corporate Communications Charge	113	113	113	-	113
Corporate IT Charge	128	128	128	-	128
Corporate HR Charge	75	75	75	-	75
Works-Regional Environmental Lab Charge	80	190	190	-	190
Recovery - Works-General Tax	(25)	(23)	(24)	9	(15)
Recovery - Duffin Creek Technical Support	(5)	-	-	-	-
Recovery - Regional Environmental Lab	(109)	(48)	(48)	(9)	(57)
Recovery - Works-Biosolids Services	(265)	(336)	(283)	-	(283)
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>(8)</b>	<b>99</b>	<b>151</b>	<b>-</b>	<b>151</b>
<b>Gross Operating Expenses</b>	<b>6,710</b>	<b>6,800</b>	<b>6,830</b>	<b>(649)</b>	<b>6,181</b>
<b>Tangible Capital Assets</b>					
New	49	49	-	90	90
Replacement	87	87	69	-	69
<b>Total Tangible Capital Assets</b>	<b>136</b>	<b>136</b>	<b>69</b>	<b>90</b>	<b>159</b>
<b>Total Expenses</b>	<b>6,846</b>	<b>6,936</b>	<b>6,899</b>	<b>(559)</b>	<b>6,340</b>
<b>Revenues</b>					
Fees & Service Charges	(175)	(174)	(174)	(34)	(208)
Sale of Publications	(9)	(10)	(10)	2	(8)
Sundry Revenue	(208)	(234)	(169)	-	(169)
<b>Total Revenues</b>	<b>(392)</b>	<b>(418)</b>	<b>(353)</b>	<b>(32)</b>	<b>(385)</b>
<b>Net Program Expenses</b>	<b>6,454</b>	<b>6,518</b>	<b>6,546</b>	<b>(591)</b>	<b>5,955</b>

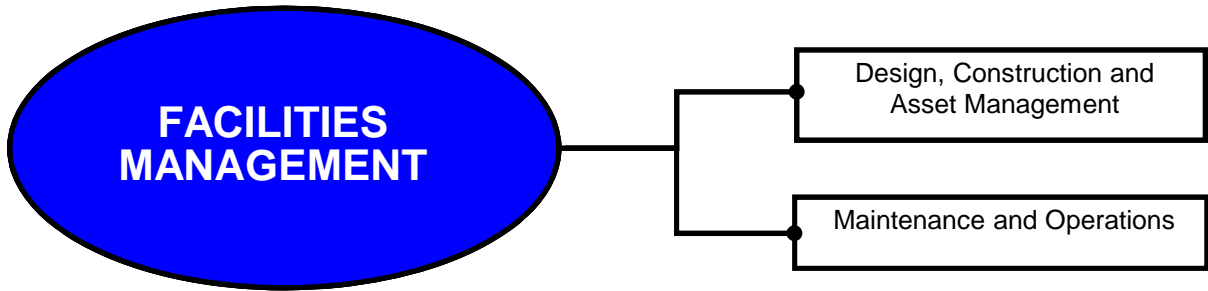
\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	6,181
Less: Revenues Per Above	(385)
Net Operating Program Expenses Per Program Summary	5,796
Add: Tangible Capital Assets	159
Net Program Expenses Per Above	5,955



**2016 Program Detail**

**Works - Sanitary Sewerage System**



**Purpose:**

- ◆ Provide overall lifecycle management for Regional facilities including:
  - ◆ Detailed design and construction of new facilities and lease hold 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 212 facilities with an estimated total area of 473,805 square metres (5.1 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.

**Facility Design, Construction and Asset Management Services**

- ◆ The Design, Construction & 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, Homes for the Aged and Durham Regional Police Service. The Facilities 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. Design, Construction & 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 Renovation; Furniture Management.



**2016 Program Detail**

**Works - Sanitary Sewerage System**

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

- ◆ 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 Renovation; Furniture Management.

**Facility Maintenance and Operations**

- ◆ Water Supply and Water Pollution Control Plants and Pumping Stations, Traffic, Maintenance and Transit Depots, Solid Waste/Recycling locations, Childcare Centres 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.

**Security Services**

- ◆ In addition to the Region's 212 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:**

- ◆ 2016 Full Time Employees      22.290
- ◆ 2015 Full Time Employees      17.420

4.484 FTEs redistributed across funds to align work effort across Divisions

One (1) Contract Service Coordinator to provide necessary program support for the administration of corporate facility contracts. This position is shared with General Tax, Water Supply and Solid Waste Management operations. (0.386 FTE)

**Performance Measurements:**

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

**PROGRAM 8  
FACILITIES MANAGEMENT**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	1,705	1,822	1,880	499	2,379
Payroll Maintenance Management - Recovery	(452)	(823)	(623)	(268)	(891)
<b>Net Payroll Expenses</b>	<b>1,253</b>	<b>999</b>	<b>1,257</b>	<b>231</b>	<b>1,488</b>
Personnel Related	44	61	61	15	76
Communications	15	31	30	7	37
Supplies	32	39	39	7	46
Utilities	61	84	61	5	66
Computer Maintenance & Operations	5	6	6	18	24
Materials & Services	70	178	178	(77)	101
Buildings & Grounds Operations	1,193	1,141	1,209	29	1,238
Equipment Maintenance & Repairs	62	74	87	4	91
Vehicle Operations	42	-	-	58	58
Professional Services	1	7	7	31	38
Contracted Services	118	105	105	7	112
Financial Expenses	821	815	832	2	834
Property Taxes	1,503	1,586	1,560	-	1,560
Minor Assets & Equipment	3	9	-	-	-
Major Repairs & Renovations	221	329	-	44	44
<b>Operating Expenses Subtotal</b>	<b>5,444</b>	<b>5,464</b>	<b>5,432</b>	<b>381</b>	<b>5,813</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Works-General Tax Charge	18	19	19	4	23
Works-Facilities Management Charge	383	486	486	12	498
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>401</b>	<b>505</b>	<b>505</b>	<b>16</b>	<b>521</b>
<b>Gross Operating Expenses</b>	<b>5,845</b>	<b>5,969</b>	<b>5,937</b>	<b>397</b>	<b>6,334</b>

**PROGRAM 8  
FACILITIES MANAGEMENT**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Tangible Capital Assets</b>					
New	148	148	-	91	91
Replacement	938	938	63	-	63
<b>Total Tangible Capital Assets</b>	<b>1,086</b>	<b>1,086</b>	<b>63</b>	<b>91</b>	<b>154</b>
<b>Total Expenses</b>	<b>6,931</b>	<b>7,055</b>	<b>6,000</b>	<b>488</b>	<b>6,488</b>
<b>Revenues</b>					
Sundry Revenue	(1)	-	-	-	-
<b>Total Revenues</b>	<b>(1)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Net Program Expenses</b>	<b>6,930</b>	<b>7,055</b>	<b>6,000</b>	<b>488</b>	<b>6,488</b>

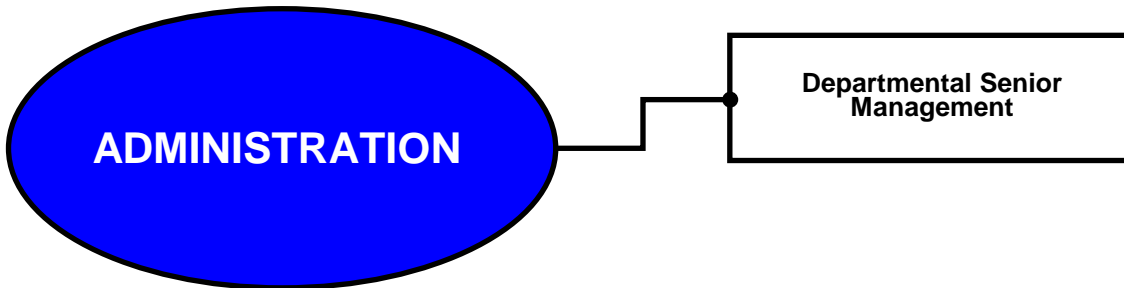
\* TCA is stated separately on the Program Summary

Gross Operating Expenses Per Above	6,334
Less: Revenues Per Above	-
Net Operating Program Expenses Per Program Summary	6,334
Add: Tangible Capital Assets	154
Net Program Expenses Per Above	<u>6,488</u>



**2016 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, 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, Real Estate and 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 and other Joint Standing Committee reports for presentation to Regional Council related to Sanitary Sewerage System.

**Description of Program Resources:**

- ◆ 2016 Full Time Employees 1.600
- ◆ 2015 Full Time Employees 1.600



**PROGRAM 9  
ADMINISTRATION**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	275	273	277	-	277
Personnel Related	9	11	11	-	11
<b>Net Program Expenses</b>	<b>284</b>	<b>284</b>	<b>288</b>	<b>-</b>	<b>288</b>

**PROGRAM 10  
HEADQUARTERS SHARED COST**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	919	1,021	1,036	5	1,041
Communications	441	460	460	40	500
Supplies	119	139	139	-	139
Utilities	1,267	1,161	1,276	(13)	1,263
Computer Maintenance & Operations	16	11	11	-	11
Materials & Services	21	30	30	(3)	27
Buildings & Grounds Operations	931	1,010	1,010	13	1,023
Equipment Maintenance & Repairs	14	12	12	-	12
Professional Services	35	55	-	20	20
Contracted Services	722	730	746	(26)	720
Financial Expenses	166	166	169	-	169
Major Repairs & Renovations	195	293	-	100	100
Contribution to Reserve & Reserve Funds	748	748	748	(748)	-
Call Centre Operations	435	497	501	-	501
Front Counter Operations	298	327	322	-	322
<b>Operating Expenses Subtotal</b>	<b>6,327</b>	<b>6,660</b>	<b>6,460</b>	<b>(612)</b>	<b>5,848</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Facilities Management & Shipping/Receiving Charge	375	375	380	(8)	372
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>375</b>	<b>375</b>	<b>380</b>	<b>(8)</b>	<b>372</b>
<b>Gross Operating Expenses</b>	<b>6,702</b>	<b>7,035</b>	<b>6,840</b>	<b>(620)</b>	<b>6,220</b>
<b>Tangible Capital Assets</b>					
Replacement	145	145	530	760	1,290
<b>Total Tangible Capital Assets</b>	<b>145</b>	<b>145</b>	<b>530</b>	<b>760</b>	<b>1,290</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 10  
HEADQUARTERS SHARED COST**



**2016 Program Detail**

**Works - Sanitary Sewerage System**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Proposed Budget</b>
<b>Revenues</b>					
Rents	-	-	-	(6)	(6)
<b>Total Revenues</b>	-	-	-	(6)	(6)
<b>Net Program Expenses</b>	<b>11,441</b>	<b>11,774</b>	<b>11,964</b>	<b>134</b>	<b>12,098</b>
<b>Department's Share of Net Program Expenses</b>	<b>982</b>	<b>982</b>	<b>998</b>	<b>11</b>	<b>1,009</b>

# TANGIBLE CAPITAL ASSETS PROGRAM SUMMARY

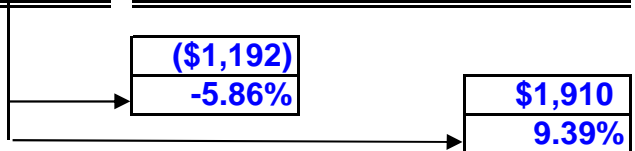


## 2016 Business Plan

## Works - Sanitary Sewerage System

By Program	2015		2016		
(\$,000's)	Estimated Actuals	Restated Budget	Base Budget	Program Change	Proposed Budget
<b><u>Tangible Capital Assets:</u></b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
1S Duffin Creek WPCP - New	300	300	-	95	95
2S - Replacement	1,500	1,500	941	-	941
3S Environmental Lab - New	10	10	-	-	-
4S - Replacement	225	225	420	-	420
5S Facilities Management - New	148	148	-	91	91
6S - Replacement	627	627	63	-	63
7S Fleet/Equipment - New	99	99	-	144	144
8S - Replacement	319	319	357	-	357
9S Buildings - Replacement	311	311	-	-	-
10S Construction of Municipal Services	18,310	18,310	18,310	2,844	21,154
<b>Tangible Capital Subtotal</b>	<b>21,849</b>	<b>21,849</b>	<b>20,091</b>	<b>3,174</b>	<b>23,265</b>
<b><u>TCA Revenue &amp; Recovery Programs</u></b>					
11S Duffin Creek WPCP TCA Revenue from York	(1,396)	(1,396)	(737)	(72)	(809)
12S Environmental Lab-TCA Revenue from York	(117)	(117)	(210)	-	(210)
<b>Subtotal</b>	<b>(1,513)</b>	<b>(1,513)</b>	<b>(947)</b>	<b>(72)</b>	<b>(1,019)</b>
<b>Net Tangible Capital Assets</b>	<b>20,336</b>	<b>20,336</b>	<b>19,144</b>	<b>3,102</b>	<b>22,246</b>

**Summary of Increase (Decrease)**





**2016 Business Plan**

**Works - Sanitary Sewerage Systems  
Tangible Capital Assets - New**

Program Detail Page	Location	Item Description	Item #	New or Replace	Qty	Unit Cost	Gross Total Cost	Sewer Total	Other Financing	Net Sewer
04. WPCPs and Pumping Stations	Corbett Creek WPCP	Infrared Camera	54	N	1	\$ 15,000	\$15,000	\$15,000	\$0	<b>\$15,000</b>
		Tablet Computer	116	N	1	\$ 2,500	\$2,500	\$2,500	\$0	<b>\$2,500</b>
	Courtice WPCP	Tablet Computer	117	N	1	\$ 2,500	\$2,500	\$2,500	\$0	<b>\$2,500</b>
	Lake Simcoe WPCP	Tablet Computer	118	N	1	\$ 2,500	\$2,500	\$2,500	\$0	<b>\$2,500</b>
	Uxbridge Brook WPCP	Tablet Computer	123	N	1	\$ 2,500	\$2,500	\$2,500	\$0	<b>\$2,500</b>
	WPCP Pumping Station	Arc Flash / Lock Out Tag Out Improvements	21	N	1	\$ 29,000	\$29,000	\$29,000	\$0	<b>\$29,000</b>
05.b. Duffin Creek WPCP-Plant	Duffin Creek WPCP	Fork Lift	46	N	1	\$ 65,000	\$65,000	\$65,000	(\$47,925)	<b>\$17,076</b>
		Submersible Sump Pumps	115	N	3	\$ 10,000	\$30,000	\$30,000	(\$24,525)	<b>\$5,475</b>
07. Engineering & Staff Support	Technical Support	Lagan Data Management Software	339	N	1	\$ 180,000	\$180,000	\$90,000	\$0	<b>\$90,000</b>
08. Facilities Management	Lake Simcoe WPCP	Install Chain link fence around north side of property	56	N	1	\$ 51,000	\$51,000	\$51,000	\$0	<b>\$51,000</b>
		Security Keybox	108	N	1	\$ 20,000	\$20,000	\$20,000	\$0	<b>\$20,000</b>
	Uxbridge Brook WPCP	Security Keybox	107	N	1	\$ 20,000	\$20,000	\$20,000	\$0	<b>\$20,000</b>
<b>Grand Total</b>							<b>\$420,000</b>	<b>\$330,000</b>	<b>(\$72,450)</b>	<b>\$257,551</b>

**Tangible Capital Asset Program Summary**

1S Duffin Creek WPCP - New	95,000
5S Facilities Management - New	91,000
7S Fleet/Equipment - New	144,000
	<u><u>330,000</u></u>



## 2016 Business Plan

## Works - Sanitary Sewerage Systems Tangible Capital Assets - Replacement

Program Detail Page	Location	Item Description	Item #	New or Replace	Qty	Unit Cost	Gross Total Cost	Sewer Total	Other Financing	Net Sewer
04. WPCPs and Pumping Stations	Corbett Creek WPCP	Clarifier Gearbox Replacement	26	R	1	\$ 42,000	\$42,000	\$42,000	\$0	\$42,000
		SCADA Computers	100	R	1	\$ 6,500	\$6,500	\$6,500	\$0	\$6,500
	Courtice WPCP	SCADA Computers	101	R	1	\$ 6,500	\$6,500	\$6,500	\$0	\$6,500
	Harmony Creek WPCP	Draft Tube Mixer	34	R	1	\$ 30,000	\$30,000	\$30,000	\$0	\$30,000
		SCADA Computers	102	R	2	\$ 3,000	\$6,000	\$6,000	\$0	\$6,000
	Lake Simcoe WPCP	SCADA Computers	103	R	2	\$ 3,000	\$6,000	\$6,000	\$0	\$6,000
	WPCP Pumping Station	INTRAC Radio Upgrades	58	R	12	\$ 3,000	\$36,000	\$36,000	\$0	\$36,000
		Programming/Hardware - SPS SCADA	78	R	1	\$ 75,000	\$75,000	\$75,000	\$0	\$75,000
	WPCP Pumping Station - Cedar Valley SPS	Pump Replacement at Cedar Valley SPS	81	R	1	\$ 30,000	\$30,000	\$30,000	\$0	\$30,000
	WPCP Pumping Station - Madawaska SPS	Pump Replacements at Madawaska SPS	82	R	1	\$ 50,000	\$50,000	\$50,000	\$0	\$50,000
05.b. Duffin Creek WPCP-Plant	Duffin Creek WPCP	Allowance for Occupational Health and Safety Equipment	19	R	1	\$ 250,000	\$250,000	\$250,000	(\$194,350)	\$55,650
		Automatic Vehicle Location Replacements	23	R	5	\$ 1,000	\$5,000	\$5,000	(\$3,887)	\$1,113
		Compactor Replacement Parts	27	R	1	\$ 70,000	\$70,000	\$70,000	(\$57,225)	\$12,775
		Effluent Pipe Replacement within Incineration Building	36	R	1	\$ 100,000	\$100,000	\$100,000	(\$73,730)	\$26,270
		Engineered Davit Arm Replacement	39	R	1	\$ 35,000	\$35,000	\$35,000	(\$25,806)	\$9,195
		E-RES Data Management	41	R	1	\$ 100,000	\$100,000	\$100,000	(\$81,750)	\$18,250
		Replacement Ladders in Sludge Holding Tanks	95	R	1	\$ 35,000	\$35,000	\$35,000	(\$25,806)	\$9,195
		Stage 3 Headworks Grit Conveyor Parts	114	R	1	\$ 100,000	\$100,000	\$100,000	(\$81,750)	\$18,250
		Upgrade UPS	132	R	1	\$ 40,000	\$40,000	\$40,000	(\$32,700)	\$7,300
		Voice Over Internet Protocol (VOIP) Phone System Upgrades	135	R	1	\$ 50,000	\$50,000	\$50,000	(\$38,870)	\$11,130
05.e. Duffin Creek WPCP-Facility	Duffin Creek WPCP	Heating Oil Tank Replacement	50	R	1	\$ 13,500	\$13,500	\$13,500	(\$10,495)	\$3,005
		HVAC Upgrades	53	R	1	\$ 142,000	\$142,000	\$142,000	(\$110,391)	\$31,609
06. Environmental Lab	Environmental Lab	Gas Chromatograph / Mass Spectrometer / Mass Spectrometer	49	R	1	\$ 300,000	\$300,000	\$300,000	(\$150,000)	\$150,000
		Ion Chromatograph	59	R	1	\$ 120,000	\$120,000	\$120,000	(\$60,000)	\$60,000
07. Engineering & Staff Support	Financial Services	Computers & Monitors Refresh	3	R	1	\$ 184,160	\$184,160	\$69,495	\$0	\$69,495
08. Facilities Management	WPCP Pumping Station - Bayly St. SPS	Replace backflow preventers	88	R	1	\$ 26,000	\$26,000	\$26,000	\$0	\$26,000
	WPCP Pumping Station - Carruthers Creek SPS	Replace backflow preventers	89	R	1	\$ 37,000	\$37,000	\$37,000	\$0	\$37,000
<b>Grand Total</b>							<b>\$1,895,660</b>	<b>\$1,780,995</b>	<b>(\$946,759)</b>	<b>\$834,236</b>



**2016 Business Plan**

**Works - Sanitary Sewerage Systems  
Tangible Capital Assets - Replacement**

Program Detail Page	Location	Item Description	Item #	New or Replace	Qty	Unit Cost	Gross Total Cost	Sewer Total	Other Financing	Net Sewer
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Tangible Capital Asset Program Summary

2S Duffin Creek WPCP - Replace	940,500
4S Environmental Lab - Replace	420,000
6S Facilities Management - Replace	63,000
8S Fleet/Equipment - Replace	357,495
	<u><b>1,780,995</b></u>

**PROGRAM 10S  
TCA - CONSTRUCTION**



**2016 Program Detail**

**Works - Sanitary Sewerage  
System**

Detailed Cost of Program:	2015		2016		
(\$,000's)	Estimated Actuals	Approved Budget	Base Budget	Program Change	Proposed Budget
<b>Tangible Capital Assets</b>					
Capital Fund Contribution	18,310	18,310	18,310	2,844	21,154
<b>Total Tangible Capital Assets</b>	<b>18,310</b>	<b>18,310</b>	<b>18,310</b>	<b>2,844</b>	<b>21,154</b>



2016 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue			Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	New Industrial Shortfall	Total User Revenue D					
<b>A LINEAR INFRASTRUCTURE</b>												
<b>Regional Road Program</b>												
* 1 R.R. 2 (Simcoe St.) from Rossland Rd. to Robert St., Oshawa		C	260.000	0.000	260.000	0.000	260.000	0.000	0.000	0.000	0.000	0.000
* 3 R.R. 16 (Ritson Rd.) from S. Maine St to Given Rd., Oshawa		D,C	400.000	0.000	400.000	0.000	400.000	0.000	0.000	0.000	0.000	0.000
* 8 R.R. 52 (Thornton Rd.) Champlain Ave. to Consumers Dr., Oshawa		D	50.000	0.000	50.000	0.000	50.000	0.000	0.000	0.000	0.000	0.000
Sub-total			710.000	0.000	710.000	0.000	710.000	0.000	0.000	0.000	0.000	0.000
<b>Area Municipality Road Programs</b>												
14A City of Pickering Road Program		D,C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14B Town of Ajax Road Program		D,C	50.000	0.000	50.000	0.000	50.000	0.000	0.000	0.000	0.000	0.000
14C Town of Whitby Road Program		D,C	665.000	0.000	665.000	0.000	665.000	0.000	0.000	0.000	0.000	0.000
14D City of Oshawa Road Program		D,C	290.000	0.000	290.000	0.000	290.000	0.000	0.000	0.000	0.000	0.000
14E Municipality of Clarington Road Program		D,C	1,050.000	0.000	1,050.000	0.000	1,050.000	0.000	0.000	0.000	0.000	0.000
14F Township of Scugog Road Program		D,C	50.000	0.000	50.000	0.000	50.000	0.000	0.000	0.000	0.000	0.000
14G Township of Uxbridge Road Program		D,C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14H Township of Brock Road Program		D,C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100.000	0.000	100.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000
Sub-total			2,205.000	0.000	2,205.000	0.000	2,205.000	0.000	0.000	0.000	0.000	0.000
<b>MTO &amp; GO Transit projects</b>												
Sub-total			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Betterments/Replacements</b>												
* 17 Works independent of road programs in various locations		D,C	425.000	0.000	425.000	0.000	425.000	0.000	0.000	0.000	0.000	0.000
18 System upgrades for Pickering West Shore area		C	1,400.000	0.000	1,400.000	0.000	1,400.000	0.000	0.000	0.000	0.000	0.000
26 Replacement of sewer on Simcoe St from Lloyd St to John St, Oshawa		D	65.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	65.000
28 Replacement of sewer on Nassau St from John St, to King St, Oshawa		D	400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	400.000
29 Replacement of sewer on Highland Ave. from Gliddon to Athol, Oshawa		D,C	500.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	500.000
35 FM - Willmot Creek easement from Cobblelick to Toronto St. Newcastle		D,C	1,100.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,100.000
Sub-total			3,890.000	0.000	1,825.000	0.000	1,825.000	0.000	0.000	0.000	0.000	2,065.000
<b>System Expansion</b>												
* 45 West Whitby sanitary sewage TSS, Whitby	227	C	14,152.000	14,152.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
* 55 SS on Thornton Rd. from Taunton Rd. to Conlin Rd., Oshawa		D,C	1,600.000	0.000	1,600.000	0.000	1,600.000	0.000	0.000	0.000	0.000	0.000
* 58 North Oshawa Creek West Branch TSS, Oshawa	220	D,C	2,900.000	0.000	0.000	110.780	110.780	168.200	2,154.700	23.200	443.120	0.000
* 61 Courtice Sanitary Trunk Sewer Phase 2, Courtice	211	D,C	21,100.000	0.000	0.000	806.020	806.020	1,223.800	15,677.300	168.800	3,224.080	0.000
* 62 Courtice Sanitary Trunk Sewer Phase 6 Stage 1, Oshawa/Courtice	211	C	5,000.000	0.000	0.000	191.000	191.000	290.000	3,715.000	40.000	764.000	0.000
* 69 Foster Creek Trunk Sanitary sewer, Newcastle	315	D	100.000	0.000	0.000	0.000	0.000	5.800	74.300	0.800	19.100	0.000
* 73 Twinning of forcemain from Water St. PS to Old Simcoe Rd., Scugog	401	D	200.000	0.000	170.000	1.146	171.146	1.742	22.290	0.240	4.582	0.000
Sub-total			45,052.000	14,152.000	1,770.000	1,108.946	2,878.946	1,689.542	21,643.590	233.040	4,454.882	0.000

2016 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)								
					User Revenue			Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	New Industrial Shortfall	Total User Revenue D						
<b>B BUILDINGS</b>													
* 75 Duffin Creek WPCP - Modifications to receiving station		D	500.000	400.000	100.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000	0.000
* 76 Duffin Creek WPCP - Regional Lab expansion		D	250.000	125.000	0.000	11.938	11.938	7.250	92.875	1.000	11.938	0.000	0.000
* 79 Pringle Creek WPCP - demolition and greensite restoration		C	2,000.000	0.000	1,120.000	4.776	1,124.776	90.640	573.800	191.680	19.104	0.000	0.000
* 84 Jeffery St Sanitary Sewage Pumping Station, Whitby	203	C	25,864.000	25,864.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
* 85 Harmony Creek WPCP - Upgrades and P2 requirements, Oshawa		D,C	3,441.800	0.000	3,441.800	0.000	3,441.800	0.000	0.000	0.000	0.000	0.000	0.000
* 98 Water St. SSFS - upgrades		EA	508.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	508.350
99 New Lagoon at the Sunderland WPCP- lagoon system		C	900.000	0.000	900.000	0.000	900.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-total			33,464.150	26,389.000	5,561.800	16.714	5,578.514	97.890	666.675	192.680	31.042	0.000	508.350
<b>C MACHINERY AND EQUIPMENT</b>													
* 102 Duffin Creek WPCP - Refurbishment Stage I and II, Pickering	102	D,C	43,571.200	43,571.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103 Duffin Creek WPCP - Digester mixing improvements and MCC		D,C	5,000.000	3,690.000	1,310.000	0.000	1,310.000	0.000	0.000	0.000	0.000	0.000	0.000
* 108 Harmony Creek WPCP - Instrumentation and control system upgrades		C	925.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	925.000
Sub-total			49,496.200	47,261.200	1,310.000	0.000	1,310.000	0.000	0.000	0.000	0.000	0.000	925.000
<b>D IT INFRASTRUCTURE</b>													
Sub-total			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>E ALLOWANCES AND OTHER PROVISIONS</b>													
113 Inflow/infiltration studies in various locations		D,C	500.000	0.000	500.000	0.000	500.000	0.000	0.000	0.000	0.000	0.000	0.000
118 Allowance for acquisition of easements		L	150.000	0.000	150.000	0.000	150.000	0.000	0.000	0.000	0.000	0.000	0.000
119 Allowance for engineering studies		D	150.000	0.000	150.000	0.000	150.000	0.000	0.000	0.000	0.000	0.000	0.000
121 Preliminary Engineering		D	100.000	0.000	100.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000	0.000
122 Allowance for sundry extensions as per council policy		D,C	15.000	0.000	15.000	0.000	15.000	0.000	0.000	0.000	0.000	0.000	0.000
123 Allowance for unknown requirements		D,C	100.000	0.000	100.000	0.000	100.000	0.000	0.000	0.000	0.000	0.000	0.000
124 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460.000	0.000	0.000	55.772	55.772	84.680	1,084.780	11.680	223.088	0.000	0.000
125 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400.000	0.000	0.000	15.280	15.280	23.200	297.200	3.200	61.120	0.000	0.000
126 Fuel tank compliance		D	350.000	0.000	350.000	0.000	350.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-total			3,225.000	0.000	1,365.000	71.052	1,436.052	107.880	1,381.980	14.880	284.208	0.000	0.000

# 2016 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$000,'s)							
					User Revenue			Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	New Industrial Shortfall	Total User Revenue D					
<b>Total Cost Attribution</b>			<b>138,042.350</b>	<b>87,802.200</b>	<b>14,746.800</b>	<b>1,196.711</b>	<b>15,943.511</b>	<b>1,895.312</b>	<b>23,692.245</b>	<b>440.600</b>	<b>4,770.132</b>	<b>3,498.350</b>
<b>DC Revenue Shortfall to be financed from User Revenue</b>							5,210.732	0.000		440.600	4,770.132	0.000
<b>Total financing</b>							<b>21,154.243</b>	<b>1,895.312</b>	<b>23,692.245</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>Debentures:</b>									14,488.500			
Courtice Trunk Sanitary Sewer - Phase 2 - Item 62												
<b>Subtotal:</b>									<b>14,488.500</b>			
<b>Other Financing - Regional Municipality of York</b>												
Duffin Creek WPCP - Modifications to receiving station - Item 75				400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Duffin Creek WPCP - Regional Lab expansion -Item 76				125.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Duffin Creek WPCP - Refurbishment Stage I and II, Pickering - Item 102				43,571.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Duffin Creek WPCP - Digester mixing improvements and MCC - Item 103				3,690.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Subtotal:				<b>47,786.200</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>Other Financing - Developer</b>												
West Whitby Trunk Sanitary Sewer - Item 45				14,152.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jeffery St. Sanitary Sewage Pumping Station - Item 84				25,864.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Subtotal:				<b>40,016.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
Total financing including available Development Charge financing							<b>21,154.243</b>	<b>1,895.312</b>	<b>9,203.745</b>	<b>0.000</b>	<b>0.000</b>	<b>3,498.350</b>

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

# 2017 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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. 25 (Consumers Dr.) extension from E of Thickson to Thornton Rd		C	1,200	0.00	1,200.00	1,200.00	0.00	0.00	0.00	0.00	0.00
* 8 R.R. 52 (Thornton Rd.) Champlain Ave. to Consumers Dr., Oshawa		C	400	0.00	400.00	400.00	0.00	0.00	0.00	0.00	0.00
10 R.R.57 (Martin Rd.) from Baseline Rd to Nash Rd., Bowmanville		D	400	0.00	400.00	400.00	0.00	0.00	0.00	0.00	0.00
13 Allowance for Sanitary sewers in conjunction with Regional Roads		D,C	1,800	0.00	1,800.00	1,800.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,800	0.00	3,800.00	3,800.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>											
14A City of Pickering Road Program		D,C	235	0.00	235.00	235.00	0.00	0.00	0.00	0.00	0.00
14B Town of Ajax Road Program		D,C	385	0.00	385.00	385.00	0.00	0.00	0.00	0.00	0.00
14C Town of Whitby Road Program		D,C	390	0.00	390.00	390.00	0.00	0.00	0.00	0.00	0.00
14D City of Oshawa Road Program		D,C	1,110	0.00	1,110.00	1,110.00	0.00	0.00	0.00	0.00	0.00
14E Municipality of Clarington Road Program		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00
14F Township of Scugog Road Program		D,C	75	0.00	75.00	75.00	0.00	0.00	0.00	0.00	0.00
14G Township of Uxbridge Road Program		D,C	335	0.00	335.00	335.00	0.00	0.00	0.00	0.00	0.00
14H Township of Brock Road Program		D,C	111	0.00	111.00	111.00	0.00	0.00	0.00	0.00	0.00
14i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,041	0.00	3,041.00	3,041.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>											
* 16 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacements</b>											
17 Works independent of road programs in various locations		D,C	893	0.00	893.00	893.00	0.00	0.00	0.00	0.00	0.00
19 Existing YDSS - Rehabilitation Part 1, Pickering		D,C	10,000	9,900.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
25 Replacement of sewer on Olive Ave from Court St to Ritson Rd, Oshawa		D,C	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
26 Replacement of sewer on Simcoe St from Lloyd St to John St, Oshawa		D,C	290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	290.00
28 Replacement of sewer on Nassau St from John St, to King St, Oshawa		C	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
32 Replacement of sewer on Athol St from Simcoe St to Celina St, Oshawa		D,C	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	150.00
34 Replacement of sewer on Liberty Pl from Liberty St to Alexander, Bowmanville		D,C	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
36 Replacement of sewer on Toronto St from Mill to Brock, Uxbridge		C	810	0.00	0.00	0.00	0.00	0.00	0.00	0.00	810.00
39 Allowance for construction of services in unserved areas		C	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00
Sub-total			13,843	9,900.00	1,193.00	1,193.00	0.00	0.00	0.00	0.00	2,750.00
<b>System Expansion</b>											
* 57 North Oshawa Creek West Branch TSS, Oshawa	219	D	250	0.00	0.00	0.000	14.50	185.75	2.00	47.75	0.00
* 69 Foster Creek Trunk Sanitary sewer, Newcastle	315	C	1,100	0.00	0.00	0.000	63.800	817.300	8.800	210.100	0.000
* 73 Twinning of forcemain from Water St. PS to Old Simcoe Rd., Scugog	401	C	4,000	0.00	3,400.00	3,400.00	34.84	445.80	4.80	114.56	0.00

# 2017 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
Sub-total			5,350	0.00	3,400.00	3,400.00	113.14	1,448.85	15.60	372.41	0.00
<b>B BUILDINGS</b>											
* 76 Duffin Creek WPCP - Regional Lab expansion		C	2,500	1,250.00	0.00	0.00	72.50	928.75	10.00	238.75	0.00
* 77 Carruthers SSPS expansion, Whitby	103	C	1,550	0.00	0.00	0.00	89.90	1,151.65	12.40	296.05	0.00
* 78 Harwood Ave SSPS, Ajax	104	D	500	0.00	0.00	0.00	29.00	371.50	4.00	95.50	0.00
* 83 Thickson Rd SSPS, Whitby	204	EA	1,000	0.00	0.00	0.00	58.00	743.00	8.00	191.00	0.00
* 85 Harmony Creek WPCP - Upgrades and P2 requirements, Oshawa		C	5,058	0.00	5,058.20	5,058.20	0.00	0.00	0.00	0.00	0.00
87 Conlin Rd. SSPS - expansion, Oshawa	207	EA	1000	0.00	0.00	0.00	58.00	743.00	8.00	191.00	0.00
92 Newcastle WPCP - Capacity Re-rating	310	C	4,000	0.00	0.00	0.00	420.00	2,132.00	56.00	1,392.00	0.00
94 Port Newcastle SSPS and FM (oversizing), Newcastle	313	C	1,100	0.00	0.00	0.00	63.80	817.30	8.80	210.10	0.00
95 Decommission Rudell Rd., Newcastle		C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00
97 Uxbridge WPCP - Optimization Study and upgrades		C	2,100	0.00	0.00	0.00	220.50	1,119.30	29.40	730.80	0.00
* 101 Septage receiving station, Region Wide		D	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00
Sub-total			19,508	1,250.00	5,758.20	5,758.20	1,011.70	8,006.50	136.60	3,345.20	0.00
<b>C MACHINERY AND EQUIPMENT</b>											
* 102 Duffin Creek WPCP - Refurbishment Stage I and II, Pickering	102	D,C	30,558	30,558.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
* 103 Duffin Creek WPCP - Digest mixing improvements & MCC		C	5,900	4,354.20	1,545.80	1,545.80	0.00	0.00	0.00	0.00	0.00
* 104 Duffin Creek WPCP - replacement of Reactor 2, Pickering		D	6,000	4,428.00	1,572.00	1,572.00	0.00	0.00	0.00	0.00	0.00
* 105 Duffin Creek WPCP - upgrades and replacements, Pickering		D	1,000	738.00	262.00	262.00	0.00	0.00	0.00	0.00	0.00
* 109 Madawaska Pumping Station - stand by power, Oshawa		C	1,050	0.00	1,050.00	1,050.00	0.00	0.00	0.00	0.00	0.00
* 110 Port Darlington WPCP- Major Maintenance Replacement work		D	248	0.00	0.00	0.00	0.00	0.00	0.00	0.00	248.35
Sub-total			44,757	40,078.65	4,429.80	4,429.80	0.00	0.00	0.00	0.00	248.35
<b>D IT INFRASTRUCTURE</b>											
Sub-total			0	0	0	0	0	0	0	0	0
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
113 Inflow/infiltration studies in various locations		D,C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00
114 Emergency Planning updating		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
115 Asset Condition Assessments - Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
116 Asset Condition Assessment/Investigation TSS Systems		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
117 Master planning energy management		D,C	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00
118 Allowance for acquisition of easements		L	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
119 Allowance for engineering studies		D	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00
121 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
122 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00
123 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
124 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460	0.00	0.00	0.00	84.68	1,084.78	11.68	278.86	0.00
125 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400	0.00	0.00	0.00	23.20	297.20	3.20	76.40	0.00
126 Fuel tank compliance		C	1,000	0.00	1,000.00	1,000.00	0.00	0.00	0.00	0.00	0.00

# 2017 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
Sub-total			4,575	0.00	2,215.00	2,215.00	107.88	1,381.98	14.88	355.26	500.00
<b>Total Cost Attribution</b>			<b>94,974</b>	<b>51,228.65</b>	<b>23,937.00</b>	<b>23,937.00</b>	<b>1,232.72</b>	<b>10,837.33</b>	<b>167.08</b>	<b>4,072.87</b>	<b>3,498.35</b>

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

# 2018 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							(\$)
					000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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. 22 (Victoria St.) from S. Blair to Thickson Rd., Whitby		C	860	0.00	860.00	860.00	0.00	0.00	0.00	0.00	0.00	0.00
10 R.R.57 (Martin Rd.) from Baseline Rd to Nash Rd., Bowmanville		C	2,200	0.00	2,200.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Allowance for Sanitary sewers in conjunction with Regional Roads		D,C	1,000	0.00	1,000.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			4,060	0.00	4,060.00	4,060.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
14A City of Pickering Road Program		D,C	235	0.00	235.00	235.00	0.00	0.00	0.00	0.00	0.00	0.00
14B Town of Ajax Road Program		D,C	365	0.00	365.00	365.00	0.00	0.00	0.00	0.00	0.00	0.00
14C Town of Whitby Road Program		D,C	390	0.00	390.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00
14D City of Oshawa Road Program		D,C	1,110	0.00	1,110.00	1,110.00	0.00	0.00	0.00	0.00	0.00	0.00
14E Municipality of Clarington Road Program		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
14F Township of Scugog Road Program		D,C	75	0.00	75.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00
14G Township of Uxbridge Road Program		D,C	335	0.00	335.00	335.00	0.00	0.00	0.00	0.00	0.00	0.00
14H Township of Brock Road Program		D,C	111	0.00	111.00	111.00	0.00	0.00	0.00	0.00	0.00	0.00
14i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,021	0.00	3,021.00	3,021.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 16 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacements</b>												
17 Works independent of road programs in various locations		D,C	375	0.00	375.00	375.00	0.00	0.00	0.00	0.00	0.00	0.00
19 Existing YDSS - Rehabilitation Part 1, Pickering		D,C	85,800	84,942.00	858.00	858.00	0.00	0.00	0.00	0.00	0.00	0.00
27 Replacement of sewer on Centre St from King St to Brock St, Oshawa		C	700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	700.00
31 Replacement of sewer on Park Rd from Fenelon Cres to Gaspé Ave, Oshawa		D,C	143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	143.35
39 Allowance for construction of services in unserved areas		C	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			87,218	84,942.00	1,433.00	1,433.00	0.00	0.00	0.00	0.00	0.00	843.35
<b>System Expansion</b>												
* 41 Twinning of Duffin Creek TSS from Liverpool SSPS to Duffin Plant		C	1,250	0.00	838.37	838.37	32.00	335.06	1.73	42.84	0.00	0.00
* 51 Farewell Creek TSS on easement west of Grandview, Oshawa	217	D	300	0.00	0.00	0.00	17.40	222.90	2.40	57.30	0.00	0.00
* 54 Twinning of Oshawa Creek TSS from Gibb to Greenwood, Oshawa	218	D	200	0.00	0.00	0.00	11.60	148.60	1.60	38.20	0.00	0.00
* 60 Courtice Trunk Sanitary Sewer Phase 7, Oshawa	211	D	600	0.00	0.00	0.00	34.80	445.80	4.80	114.60	0.00	0.00
* 61 Courtice Trunk Sanitary Sewer Phase 3, Courtice	211	D,C	26,050	0.00	0.00	0.00	1,510.90	19,355.15	208.40	4,975.55	0.00	0.00
* 62 Courtice TSS - Phase 6 - Stage 2, Courtice		D	550	0.00	0.00	0.00	31.90	408.65	4.40	105.05	0.00	0.00
* 68 Foster Creek Trunk Sanitary sewer, Newcastle	314	C	2,969	0.00	0.00	0.00	172.18	2,205.67	23.75	567.00	0.00	0.00

## 2018 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution							Asset Management Reserve Fund I
					000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Total User Revenue D	
Benefit to Existing C	Total User Revenue D											
* 71 Wilmot Trunk Sewer Rudell Rd to King St , Newcastle	317	D	500	0.00	0.00	0.00	29.00	371.50	4.00	95.50	0.00	
Sub-total			32,419	0.00	838.37	838.37	1,839.77	23,493.33	251.08	5,996.04	0.00	
<b>B BUILDINGS</b>												
* 74 Duffin Creek WPCP - New or expanded outfall	100	C	228,970	194,349.74	20,117.30	20,117.30	1,524.94	7,730.03	201.49	5,046.50	0.00	
* 80 Corbett Creek WPCP - Mod.'s to existing digesters,Whitby	19	C	600	0.00	336.00	336.00	27.19	172.14	57.50	7.16	0.00	
98 Water St. SSPS - upgrades		C	1,855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,855.00	
* 100 Feasibility Study for Sunderland and Cannington WPCP	600	D	1,900	0.00	0.00	0.00	199.50	1,012.70	26.60	661.20	0.00	
* 101 Septage receiving station, Region Wide		D	1,450	0.00	1,450.00	1,450.00	0.00	0.00	0.00	0.00	0.00	
Sub-total			234,775	194,349.74	21,903.30	21,903.30	1,751.63	8,914.87	285.60	5,714.86	1,855.00	
<b>C MACHINERY AND EQUIPMENT</b>												
* 104 Duffin Creek WPCP - replacement of Reactor 2, Pickering		C	79,000	58,302.00	20,698.00	20,698.00	0.00	0.00	0.00	0.00	0.00	
* 105 Duffin Creek WPCP - upgrades and replacements, Pickering		C	15,500	11,439.00	4,061.00	4,061.00	0.00	0.00	0.00	0.00	0.00	
* 107 Duffin Creek WPCP - Phosphorous Optimization Study		D	1,500	1,107.00	393.00	393.00	0.00	0.00	0.00	0.00	0.00	
* 110 Port Darlington WPCP- Major Maintenance Replacement work		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00	
Sub-total			96,300	70,848.00	25,152.00	25,152.00	0.00	0.00	0.00	0.00	300.00	
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
113 Inflow/infiltration studies in various locations		D,C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00	
114 Emergency Planning updating		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	
115 Asset Condition Assessments - Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00	
116 Asset Condition Assessment/Investigation TSS Systems		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00	
118 Allowance for acquisition of easements		L	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	
119 Allowance for engineering studies		D	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00	
121 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	
122 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	
123 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	
124 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460	0.00	0.00	0.00	84.68	1,084.78	11.68	278.86	0.00	
125 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400	0.00	0.00	0.00	23.20	297.20	3.20	76.40	0.00	
Sub-total			3,375	0.00	1,015.00	1,015.00	107.88	1,381.98	14.88	355.26	500.00	
<b>Total Cost Attribution</b>			<b>461,268</b>	<b>350,139.74</b>	<b>57,522.67</b>	<b>57,522.67</b>	<b>3,699.29</b>	<b>33,790.18</b>	<b>551.56</b>	<b>12,066.17</b>	<b>3,498.35</b>	

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



# 2019 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution						Asset Management Reserve Fund I
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	
					Benefit to Existing C	Total User Revenue D					
(\$ 000's)											
<b>A LINEAR INFRASTRUCTURE</b>											
<b>Regional Road Program</b>											
2 R.R.14 (Liberty St.) from Baseline Rd. to King St., Bowmanville		D	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00
10 R.R. 57 (Martin Rd) from Baseline Rd. to Nash Rd., Bowmanville		C	380	0.00	380.00	380.00	0.00	0.00	0.00	0.00	0.00
13 Allowance for Sanitary sewers in conjunction with Regional Roads		C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00
Sub-total			1,180	0.00	1,180.00	1,180.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>											
14A City of Pickering Road Program		D,C	235	0.00	235.00	235.00	0.00	0.00	0.00	0.00	0.00
14B Town of Ajax Road Program		D,C	365	0.00	365.00	365.00	0.00	0.00	0.00	0.00	0.00
14C Town of Whitby Road Program		D,C	390	0.00	390.00	390.00	0.00	0.00	0.00	0.00	0.00
14D City of Oshawa Road Program		D,C	1,110	0.00	1,110.00	1,110.00	0.00	0.00	0.00	0.00	0.00
14E Municipality of Clarington Road Program		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00
14F Township of Scugog Road Program		D,C	75	0.00	75.00	75.00	0.00	0.00	0.00	0.00	0.00
14G Township of Uxbridge Road Program		D,C	335	0.00	335.00	335.00	0.00	0.00	0.00	0.00	0.00
14H Township of Brock Road Program		D,C	111	0.00	111.00	111.00	0.00	0.00	0.00	0.00	0.00
14i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,021	0.00	3,021.00	3,021.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>											
* 16 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacements</b>											
17 Works independent of road programs in various locations		D,C	621	0.00	621.00	621.00	0.00	0.00	0.00	0.00	0.00
25 Replacement of sewer on Olive Ave from Court St to Ritson Rd, Oshawa		C	800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	800.00
31 Replacement of sewer on Park Rd from Fenelon Cres to Gaspé Ave, Oshawa		D,C	748	0.00	0.00	0.00	0.00	0.00	0.00	0.00	748.35
39 Allowance for construction of services in unserved areas		C	760	0.00	760.00	760.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,929	0.00	1,381.00	1,381.00	0.00	0.00	0.00	0.00	1,548.35
<b>System Expansion</b>											
* 50 Conlin Rd. W TSS on W/O Boundary to Conlin SSPS, Whitby	222	EA	500	0.00	0.00	0.00	29.00	371.50	4.00	95.50	0.00
* 54 Twinning of Oshawa Creek TSS from Gibb to Greenwood, Oshawa	218	C	950	0.00	0.00	0.00	55.10	705.85	7.60	181.45	0.00
* 56 Conlin Rd. FM from Ritson Rd. to Harmony Rd., Oshawa		D	500	0.00	0.00	0.00	29.00	371.50	4.00	95.50	0.00
* 57 North Oshawa Creek West Branch TSS, Oshawa	219	C	4,165	0.00	0.00	0.00	241.57	3,094.60	33.32	795.52	0.00
* 70 Foster Creek Trunk Sanitary sewer, Newcastle	315	D	100	0.00	0.00	0.000	5.800	74.300	0.800	19.100	0.000
* 71 Wilmot Trunk Sewer Rudell Rd to King St, Newcastle	317	C	2,500	0.00	0.00	0.00	145.00	1,857.50	20.00	477.50	0.00
Sub-total			8,715	0.00	0.00	0.00	505.47	6,475.25	69.72	1,664.57	0.00

LN

## 2019 Construction Program - Sanitary Sewerage

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution						(\$ 000's)	
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>B BUILDINGS</b>												
* 78 Harwood Ave SSPS, Ajax	104	D	3,300	0.00	0.00	0.00	191.40	2,451.90	26.40	630.30	0.00	
* 80 Corbett Creek WPCP - Mod.'s to existing digesters,Whitby	19	C	5,800	0.00	3,248.00	3,248.00	262.86	1,664.02	555.87	69.25	0.00	
* 81 Corbett Creek WPCP - Headworks		C	4,500	0.00	4,500.00	4,500.00	0.00	0.00	0.00	0.00	0.00	
87 Conlin Rd. SSPS - expansion, Oshawa	207	D	4,800	0.00	0.00	0.00	278.40	3,566.40	38.40	916.80	0.00	
98 Water St. SSPS - upgrades		C	950	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	950.00
Sub-total			19,350	0.00	7,748.00	7,748.00	732.66	7,682.32	620.67	1,616.35	0.00	950.00
<b>C MACHINERY AND EQUIPMENT</b>												
* 110 Port Darlington WPCP- Major Maintenance Replacement work		C	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
Sub-total			500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0	0	0	0	0	0	0	0	0
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
113 Inflow/infiltration studies in various locations		D,C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
115 Asset Condition Assessments - Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
116 Asset Condition Assessment/Investigation TSS Systems		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
118 Allowance for acquisition of easements		L	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
119 Allowance for engineering studies		D	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
121 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
122 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
123 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
124 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460	0.00	0.00	0.00	84.68	1,084.78	11.68	278.86	0.00	0.00
125 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400	0.00	0.00	0.00	23.20	297.20	3.20	76.40	0.00	0.00
Sub-total			3,275	0.00	915.00	915.00	107.88	1,381.98	14.88	355.26	0.00	500.00
<b>Total Cost Attribution</b>			<b>39,070</b>	<b>0.00</b>	<b>14,345.00</b>	<b>14,345.00</b>	<b>1,346.01</b>	<b>15,539.55</b>	<b>705.27</b>	<b>3,636.18</b>	<b>0.00</b>	<b>3,498.35</b>

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

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# 2020 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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.43 (Cochrane St.) from Ferguson St to Bonacord Ave, Whitby		C	600	0.00	600.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
* 9 R.R.53 (Stevenson Rd.) from Bond St. to Rossland Rd., Oshawa		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
* 11 R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa		D	40	0.00	40.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Allowance for Sanitary sewers in conjunction with Regional Roads		D,C	2,000	0.00	2,000.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,740	0.00	2,740.00	2,740.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
14A City of Pickering Road Program		D,C	235	0.00	235.00	235.00	0.00	0.00	0.00	0.00	0.00	0.00
14B Town of Ajax Road Program		D,C	365	0.00	365.00	365.00	0.00	0.00	0.00	0.00	0.00	0.00
14C Town of Whitby Road Program		D,C	390	0.00	390.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00
14D City of Oshawa Road Program		D,C	1,110	0.00	1,110.00	1,110.00	0.00	0.00	0.00	0.00	0.00	0.00
14E Municipality of Clarington Road Program		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
14F Township of Scugog Road Program		D,C	75	0.00	75.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00
14G Township of Uxbridge Road Program		D,C	335	0.00	335.00	335.00	0.00	0.00	0.00	0.00	0.00	0.00
14H Township of Brock Road Program		D,C	111	0.00	111.00	111.00	0.00	0.00	0.00	0.00	0.00	0.00
14i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,021	0.00	3,021.00	3,021.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 16 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacements</b>												
17 Works independent of road programs in various locations		D,C	621	0.00	621.00	621.00	0.00	0.00	0.00	0.00	0.00	0.00
20 Replacement of sanitary sewer on Centre St., Whitby		D	42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.70
31 Replacement of sewer on Park Rd from Fenelon to Gaspé, Oshawa		D,C	252	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	251.65
33 Replacement of sewer on Adelaide Ave from Kayser to Centre, Oshawa		D	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
39 Allowance for construction of services in unserved areas		C	1,745	0.00	1,745.00	1,745.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,684	0.00	2,366.00	2,366.00	0.00	0.00	0.00	0.00	0.00	318.35
<b>System Expansion</b>												
* 40 Duffin Creek - YDSS primary trunk sewer twinning, Pickering		EA	6,000	4,800.00	0.00	0.00	69.60	891.60	9.60	229.20	0.00	0.00
* 51 Farewell Creek TSS on easement west of Grandview, Oshawa	217	C	2,400	0.00	0.00	0.00	139.20	1,783.20	19.20	458.40	0.00	0.00
* 52 Twinning of NW branch of Harmony Creek trunk sewer, Oshawa	802	C	1,900	0.00	1,900.00	1,900.000	0.000	0.000	0.000	0.000	0.000	0.000
* 53 North Oshawa Creek (East Branch) TSS, Oshawa	223	D	400	0.00	0.00	0.00	23.20	297.20	3.20	76.40	0.00	0.00
* 56 Conlin Rd. FM from Ritson Rd. to Harmony Rd., Oshawa	224	C	5,170	0.00	0.00	0.00	299.86	3,841.31	41.36	987.47	0.00	0.00

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# 2020 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
* 60 Courtice TSS Phase 7, Oshawa/Courtice		C	5,600	0.00	0.00	0.00	324.80	4,160.80	44.80	1,069.60	0.00
* 61 Courtice Sanitary Trunk Sewer Phase 4, Courtice	211	D,C	33,850	0.00	0.00	0.00	1,963.30	25,150.55	270.80	6,465.35	0.00
* 64 Baseline Rd. TSS from Simpson to Bennett Rd., Bowmanville	304	C	300	0.00	0.00	0.00	17.40	222.90	2.40	57.30	0.00
* 65 Port Darlington Rd. TSS from Baseline Rd. to easement, Bowmanville		D	250	0.00	0.00	0.00	14.50	185.75	2.00	47.75	0.00
* 70 Foster Creek Trunk Sanitary sewer, Newcastle	315	C	2,100	0.00	0.00	0.000	121.800	1,560.300	16.800	401.100	0.000
* 71 Wilmot Trunk Sewer on King St to Hwy 115/35, Newcastle	318	D	130	0.00	0.00	0.000	7.540	96.590	1.040	24.830	0.000
Sub-total			58,100	4,800.00	1,900.00	1,900.00	2,981.20	38,190.20	411.20	9,817.40	0.00
<b>B BUILDINGS</b>											
* 83 Thicksen Rd SSPS, Whitby	202	D	1,200	0.00	0.00	0.00	69.60	891.60	9.60	229.20	0.00
98 Water St. SSPS - upgrades		C	1,680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,680.00
Sub-total			2,880	0.00	0.00	0.00	69.60	891.60	9.60	229.20	1,680.00
<b>C MACHINERY AND EQUIPMENT</b>											
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>D IT INFRASTRUCTURE</b>											
111 SCADA System replacement and master plan		D	1,000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,000.00
Sub-total			1,000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,000.00
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
112 Regional Sewerage Master Planning Study		D,C	800	0.00	0.00	0.00	46.40	594.40	6.40	152.80	0.00
113 Inflow/infiltration studies in various locations		D,C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00
115 Asset Condition Assessments - Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
116 Asset Condition Assessment/Investigation TSS Systems		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
118 Allowance for acquisition of easements		L	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
119 Allowance for engineering studies		D	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00
120 Phosphorus Reduction Study for plants North		D	250	0.00	250.00	250.00	0.00	0.00	0.00	0.00	0.00
121 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
122 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00
123 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
124 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460	0.00	0.00	0.00	84.68	1,084.78	11.68	278.86	0.00
125 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400	0.00	0.00	0.00	23.20	297.20	3.20	76.40	0.00
Sub-total			4,325	0.00	1,165.00	1,165.00	154.28	1,976.38	21.28	508.06	500.00
<b>Total Cost Attribution</b>			<b>74,850</b>	<b>4,800.00</b>	<b>11,292.00</b>	<b>11,292.00</b>	<b>3,205.08</b>	<b>41,058.18</b>	<b>442.08</b>	<b>10,554.66</b>	<b>3,498.35</b>

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

# 2021 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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.14 (Liberty St.) from Baseline Rd. to King St., Bowmanville		D	1,350	0.00	1,350.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00
* 11 R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa		D	210	0.00	210.00	210.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Allowance for Sanitary sewers in conjunction with Regional Roads		C	1,200	0.00	1,200.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,760	0.00	2,760.00	2,760.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
14A City of Pickering Road Program		D,C	235	0.00	235.00	235.00	0.00	0.00	0.00	0.00	0.00	0.00
14B Town of Ajax Road Program		D,C	365	0.00	365.00	365.00	0.00	0.00	0.00	0.00	0.00	0.00
14C Town of Whitby Road Program		D,C	390	0.00	390.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00
14D City of Oshawa Road Program		D,C	1,110	0.00	1,110.00	1,110.00	0.00	0.00	0.00	0.00	0.00	0.00
14E Municipality of Clarington Road Program		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
14F Township of Scugog Road Program		D,C	75	0.00	75.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00
14G Township of Uxbridge Road Program		D,C	335	0.00	335.00	335.00	0.00	0.00	0.00	0.00	0.00	0.00
14H Township of Brock Road Program		D,C	111	0.00	111.00	111.00	0.00	0.00	0.00	0.00	0.00	0.00
14i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,021	0.00	3,021.00	3,021.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 16 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacements</b>												
17 Works independent of road programs in various locations		D,C	621	0.00	621.00	621.00	0.00	0.00	0.00	0.00	0.00	0.00
20 Replacement of sanitary sewer on Centre St., Whitby		D	833	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	833.30
22 Replacement of sewer on Walnut St. from Euclid St to Kent St, Whitby		D,C	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	170.00
30 Replacement of sanitary sewer on Conant St., Whitby		D,C	790	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	790.00
37 Replacement of sewer on Simcoe St from CNR to Mill St, Beaverton		D,C	520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	520.00
38 Replacement of sanitary sewers in various locations		D,C	685	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	685.05
39 Allowance for construction of services in unserved areas		C	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,819	0.00	821.00	821.00	0.00	0.00	0.00	0.00	0.00	2,998.35
<b>System Expansion</b>												
* 44 Twinning of Harbour TSS from Water St to Breakwater SSPS, W	226	D	500	0.00	0.00	0.00	29.00	371.50	4.00	95.50	0.00	0.00
* 46 Corbett TSS on easement from Wentworth to Corbett WPCP, W	230	D	500	0.00	0.00	0.00	29.00	371.50	4.00	95.50	0.00	0.00
* 48 Brooklin TSS on easement from Anderson to Thickson SSPS, W	232	D	800	0.00	0.00	0.00	46.40	594.40	6.40	152.80	0.00	0.00
* 50 Conlin Rd. W TSS on W/O Boundary to Conlin SSPS, Whitby	222	D	750	0.00	0.00	0.00	43.50	557.25	6.00	143.25	0.00	0.00
* 53 North Oshawa Creek (East Branch) TSS, Oshawa	223	C	3,700	0.00	0.00	0.00	214.60	2,749.10	29.60	706.70	0.00	0.00
* 63 SW Courtice TSS from Trulls Rd to 650 m of Trulls Rd, Courtice	210	D	300	0.00	156.00	156.00	8.37	106.98	1.14	27.51	0.00	0.00

245

# 2021 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)						
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I
					Benefit to Existing C	Total User Revenue D					
* 72 Wilmot Trunk Sewer on King St to Hwy 115/35, Newcastle	318	C	1,170	0.00	0.00	0.00	67.860	869.310	9.360	223.470	0.000
Sub-total			7,720	0.00	156.00	156.00	438.73	5,620.04	60.50	1,444.73	0.00
<b>B BUILDINGS</b>											
87 Conlin Rd. SSPS - expansion, Oshawa	207	C	58,000	0.00	0.00	0.00	3,364.00	43,094.00	464.00	11,078.00	0.00
96 Decommission Sunset SSPS , Newcastle		C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00
Sub-total			58,500	0.00	500.00	500.00	3,364.00	43,094.00	464.00	11,078.00	0.00
<b>C MACHINERY AND EQUIPMENT</b>											
* 106 Duffin Creek WPCP - replacement of Reactor 1, Pickering		D	1,000	738.00	262.00	262.00	0.00	0.00	0.00	0.00	0.00
Sub-total			1,000	738.00	262.00	262.00	0.00	0.00	0.00	0.00	0.00
<b>D IT INFRASTRUCTURE</b>											
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>E ALLOWANCES AND OTHER PROVISIONS</b>											
113 Inflow/infiltration studies in various locations		D,C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00
115 Asset Condition Assessments - Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
116 Asset Condition Assessment/Investigation TSS Systems		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
118 Allowance for acquisition of easements		L	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00
119 Allowance for engineering studies		D	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00
120 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
121 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00
122 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
123 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460	0.00	0.00	0.00	84.68	1,084.78	11.68	278.86	0.00
124 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400	0.00	0.00	0.00	23.20	297.20	3.20	76.40	0.00
Sub-total			3,275	0.00	915.00	915.00	107.88	1,381.98	14.88	355.26	500.00
<b>Total Cost Attribution</b>			<b>80,195</b>	<b>738.00</b>	<b>8,535.00</b>	<b>8,535.00</b>	<b>3,910.61</b>	<b>50,096.02</b>	<b>539.38</b>	<b>12,877.99</b>	<b>3,498.35</b>

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

# 2022 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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>												
* 12 R.R. 59 (Gibb St.)/ Olive Ave. interconnection, Oshawa		D,C	35	0.00	35.00	35.000	0.000	0.000	0.000	0.000	0.000	0.000
13 Allowance for Sanitary sewers in conjunction with Regional Roads		C	800	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			835	0.00	835.00	835.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
14A City of Pickering Road Program		D,C	235	0.00	235.00	235.00	0.00	0.00	0.00	0.00	0.00	0.00
14B Town of Ajax Road Program		D,C	365	0.00	365.00	365.00	0.00	0.00	0.00	0.00	0.00	0.00
14C Town of Whitby Road Program		D,C	390	0.00	390.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00
14D City of Oshawa Road Program		D,C	1,110	0.00	1,110.00	1,110.00	0.00	0.00	0.00	0.00	0.00	0.00
14E Municipality of Clarington Road Program		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
14F Township of Scugog Road Program		D,C	75	0.00	75.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00
14G Township of Uxbridge Road Program		D,C	335	0.00	335.00	335.00	0.00	0.00	0.00	0.00	0.00	0.00
14H Township of Brock Road Program		D,C	111	0.00	111.00	111.00	0.00	0.00	0.00	0.00	0.00	0.00
14i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,021	0.00	3,021.00	3,021.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 16 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacements</b>												
17 Works independent of road programs in various locations		D,C	621	0.00	621.00	621.00	0.00	0.00	0.00	0.00	0.00	0.00
33 Replacement of sewer on Adelaide Ave from Kayser St to Centre St, Oshawa		C	425	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	425.00
38 Replacement of sanitary sewers in various locations		D,C	2,573	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,573.35
39 Allowance for construction of services in unserved areas		C	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,819	0.00	821.00	821.00	0.00	0.00	0.00	0.00	0.00	2,998.35
<b>System Expansion</b>												
* 40 Duffin Creek - YDSS primary trunk sewer twinning, Pickering		EA, D	14,000	11,200.00	0.00	0.00	162.40	2,080.40	22.40	534.80	0.00	0.00
* 44 Twinning of Harbour TSS from Water St to Breakwater SSPS, W	226	C	1,330	0.00	0.00	0.00	77.14	988.19	10.64	254.03	0.00	0.00
* 46 Corbett TSS on easement from Wentworth to Corbett WPCP, W	230	C	2,000	0.00	0.00	0.00	116.00	1,486.00	16.00	382.00	0.00	0.00
* 61 Courtice TSS - Phase 5, Courtice		C	12,500	0.00	0.00	0.00	725.00	9,287.50	100.00	2,387.50	0.00	0.00
* 64 Baseline Rd. TSS from Simpson to Bennett Rd., Bowmanville	304	C	6,300	0.00	0.00	0.00	365.40	4,680.90	50.40	1,203.30	0.00	0.00
* 65 Port Darlington Rd. TSS from Baseline Rd. to easement, Bowmanville	305	C	8,000	0.00	0.00	0.00	464.00	5,944.00	64.00	1,528.00	0.00	0.00
Sub-total			44,130	11,200.00	0.00	0.00	1,909.94	24,466.99	263.44	6,289.63	0.00	0.00

# 2022 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>B BUILDINGS</b>												
* 83 Thickson Rd SSPS, Whitby	202	C	22,800	0.00	0.00	0.00	1,322.40	16,940.40	182.40	4,354.80	0.00	
Sub-total			22,800	0.00	0.00	0.00	1,322.40	16,940.40	182.40	4,354.80	0.00	
<b>C MACHINERY AND EQUIPMENT</b>												
* 105 Duffin Creek WPCP - upgrades and replacements, Pickering		D	1,000	738.00	262.00	262.00	0.00	0.00	0.00	0.00	0.00	
* 106 Duffin Creek WPCP - replacement of Reactor 1, Pickering		D	6,000	4,428.00	1,572.00	1,572.00	0.00	0.00	0.00	0.00	0.00	
Sub-total			7,000	5,166.00	1,834.00	1,834.00	0.00	0.00	0.00	0.00	0.00	
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
113 Inflow/infiltration studies in various locations		D,C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00	
115 Asset Condition Assessments - Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00	
116 Asset Condition Assessment/Investigation TSS Systems		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00	
118 Allowance for acquisition of easements		L	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	
119 Allowance for engineering studies		D	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00	
121 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	
122 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	
123 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	
124 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460	0.00	0.00	0.00	84.68	1,084.78	11.68	278.86	0.00	
125 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400	0.00	0.00	0.00	23.20	297.20	3.20	76.40	0.00	
Sub-total			3,275	0.00	915.00	915.00	107.88	1,381.98	14.88	355.26	500.00	
<b>Total Cost Attribution</b>			<b>84,980</b>	<b>16,366.00</b>	<b>7,526.00</b>	<b>7,526.00</b>	<b>3,340.22</b>	<b>42,789.37</b>	<b>460.72</b>	<b>10,999.69</b>	<b>3,498.35</b>	

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



# 2023 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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>												
* 9 R.R.53 (Stevenson Rd.) from Bond St. to Rossland Rd., Oshawa		D	1,200	0.00	1,200.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Allowance for Sanitary sewers in conjunction with Regional Roads		C	1,000	0.00	1,000.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,200	0.00	2,200.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
14A City of Pickering Road Program		D,C	235	0.00	235.00	235.00	0.00	0.00	0.00	0.00	0.00	0.00
14B Town of Ajax Road Program		D,C	365	0.00	365.00	365.00	0.00	0.00	0.00	0.00	0.00	0.00
14C Town of Whitby Road Program		D,C	390	0.00	390.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00
14D City of Oshawa Road Program		D,C	1,110	0.00	1,110.00	1,110.00	0.00	0.00	0.00	0.00	0.00	0.00
14E Municipality of Clarington Road Program		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
14F Township of Scugog Road Program		D,C	75	0.00	75.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00
14G Township of Uxbridge Road Program		D,C	335	0.00	335.00	335.00	0.00	0.00	0.00	0.00	0.00	0.00
14H Township of Brock Road Program		D,C	111	0.00	111.00	111.00	0.00	0.00	0.00	0.00	0.00	0.00
14i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,021	0.00	3,021.00	3,021.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 16 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacements</b>												
17 Works independent of road programs in various locations		D,C	621	0.00	621.00	621.00	0.00	0.00	0.00	0.00	0.00	0.00
21 Replacement of sanitary sewer on Maria St., Whitby		D,C	440	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	440.00
23 Replacement of sewer on Orchard Crt from St Lawrence to W/L, Whitby		D,C	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	150.00
24 Replacement of sewer on James St from King St to Centre St S, Whitby		D,C	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	140.00
38 Replacement of sanitary sewers in various locations		D,C	2,268	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,268.35
39 Allowance for construction of services in unserved areas		C	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,819	0.00	821.00	821.00	0.00	0.00	0.00	0.00	0.00	2,998.35
<b>System Expansion</b>												
* 47 West Whitby sub trunk on Dundas St. from Coronation Rd to Halls		D	250	0.00	0.00	0.00	14.50	185.75	2.00	47.75	0.00	0.00
* 48 Brooklin TSS on easement from Anderson to Thicksen SSPS, W	232	D	3,350	0.00	0.00	0.00	194.30	2,489.05	26.80	639.85	0.00	0.00
* 50 Conlin Rd. W TSS on W/O Boundary to Conlin SSPS, Whitby	222	D	4,900	0.00	0.00	0.00	284.20	3,640.70	39.20	935.90	0.00	0.00
* 59 North Oshawa Creek West Branch TSS, Oshawa	220	C	770	0.00	0.00	0.00	44.66	572.11	6.16	147.07	0.00	0.00
* 62 Courtice TSS - Phase 6 Stage 2, Oshawa/ Courtice		C	10,650	0.00	0.00	0.00	617.70	7,912.95	85.20	2,034.15	0.00	0.00
* 63 SW Courtice TSS from Trulls Rd to 650 m of Trulls Rd, Courtice	210	C	2,900	0.00	1,508.00	1,508.00	80.91	1,034.14	11.02	265.93	0.00	0.00
Sub-total			22,820	0.00	1,508.00	1,508.00	1,236.27	15,834.70	170.38	4,070.65	0.00	0.00

# 2023 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>B BUILDINGS</b>												
89 Courtice WPCP - expansion	201	EA	1,000	0.00	0.00	0.00	105.00	533.00	14.00	348.00	0.00	
* 90 Baseline Rd SSPS, Courtice	208	D	350	0.00	182.00	182.00	9.70	124.81	1.30	32.20	0.00	
Sub-total			1,350	0.00	182.00	182.00	114.70	657.81	15.30	380.20	0.00	
<b>C MACHINERY AND EQUIPMENT</b>												
* 105 Duffin Creek WPCP - upgrades and replacements, Pickering		D	9,500	7,011.00	2,489.00	2,489.00	0.00	0.00	0.00	0.00	0.00	
* 106 Duffin Creek WPCP - replacement of Reactor 1, Pickering		C	79,000	58,302.00	20,698.00	20,698.00	0.00	0.00	0.00	0.00	0.00	
Sub-total			88,500	65,313	23,187	23,187	0	0	0	0	0	
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
113 Inflow/infiltration studies in various locations		D,C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00	
115 Asset Condition Assessments - Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
116 Asset Condition Assessment/Investigation TSS Systems		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
118 Allowance for acquisition of easements		L	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
119 Allowance for engineering studies		D	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
121 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
122 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
123 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
124 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460	0.00	0.00	0.00	84.68	1,084.78	11.68	278.86	0.00	
125 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400	0.00	0.00	0.00	23.20	297.20	3.20	76.40	0.00	
Sub-total			3,275	0.00	915.00	915.00	107.88	1,381.98	14.88	355.26	500.00	
<b>Total Cost Attribution</b>			<b>125,085</b>	<b>65,313.00</b>	<b>31,934.00</b>	<b>31,934.00</b>	<b>1,458.85</b>	<b>17,874.49</b>	<b>200.56</b>	<b>4,806.11</b>	<b>3,498.35</b>	

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

250

# 2024 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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>												
* 12 R.R. 59 (Gibb St.)/ Olive Ave. interconnection, Oshawa		D,C	130	0.00	130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Allowance for Sanitary sewers in conjunction with Regional Roads		C	2,000	0.00	2,000.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,130	0.00	2,130.00	2,130.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
14A City of Pickering Road Program		D,C	235	0.00	235.00	235.00	0.00	0.00	0.00	0.00	0.00	0.00
14B Town of Ajax Road Program		D,C	365	0.00	365.00	365.00	0.00	0.00	0.00	0.00	0.00	0.00
14C Town of Whitby Road Program		D,C	390	0.00	390.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00
14D City of Oshawa Road Program		D,C	1,110	0.00	1,110.00	1,110.00	0.00	0.00	0.00	0.00	0.00	0.00
14E Municipality of Clarington Road Program		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
14F Township of Scugog Road Program		D,C	75	0.00	75.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00
14G Township of Uxbridge Road Program		D,C	335	0.00	335.00	335.00	0.00	0.00	0.00	0.00	0.00	0.00
14H Township of Brock Road Program		D,C	111	0.00	111.00	111.00	0.00	0.00	0.00	0.00	0.00	0.00
14i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,021	0.00	3,021.00	3,021.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 15 Extension of box culvert at Hwy 401,Whitby/Oshawa		D,C	125	0.00	125.00	125.00	0.000	0.000	0.000	0.000	0.000	0.000
* 16 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			225	0.00	225.00	225.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacements</b>												
17 Works independent of road programs in various locations		D,C	621	0.00	621.00	621.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Replacement of sanitary sewers in various locations		D,C	2,998	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,998.35
39 Allowance for construction of services in unserved areas		C	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,819	0.00	821.00	821.00	0.00	0.00	0.00	0.00	0.00	2,998.35
<b>System Expansion</b>												
* 40 Duffin Creek - YDSS primary trunk sewer twinning, Pickering		C	182,000	145,600.00	0.00	0.00	2,111.20	27,045.20	291.20	6,952.40	0.00	0.00
* 42 Twinning of Monarch Ave. TSS, Ajax		D	200	0.00	0.00	0.00	11.60	148.60	1.60	38.20	0.00	0.00
* 47 West Whitby sub trunk on Dundas St. from Coronation Rd to Halls		C	1,750	0.00	0.00	0.00	101.50	1,300.25	14.00	334.25	0.00	0.00
* 59 North Oshawa Creek West Branch TSS, Oshawa	221	C	14,530	0.00	0.00	0.00	842.74	10,795.79	116.24	2,775.23	0.00	0.00
Sub-total			198,480	145,600.00	0.00	0.00	3,067.04	39,289.84	423.04	10,100.08	0.00	0.00
<b>B BUILDINGS</b>												
* 86 Harmony Creek SSPS - expansion and forcemain, Oshawa		EA	500	0.00	0.00	0.00	29.00	371.50	4.00	95.50	0.00	0.00
* 90 Baseline Rd SSPS, Courtice	208	D	3,300	0.00	1,716.00	1,716.000	91.41	1,176.78	12.21	303.60	0.00	0.00
Sub-total			3,800	0.00	1,716.00	1,716.00	120.41	1,548.28	16.21	399.10	0.00	0.00

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# 2024 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>C MACHINERY AND EQUIPMENT</b>												
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
113 Inflow/infiltration studies in various locations		D,C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
115 Asset Condition Assessments - Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
116 Asset Condition Assessment/Investigation TSS Systems		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
118 Allowance for acquisition of easements		L	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
119 Allowance for engineering studies		D	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
121 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
122 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
123 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
124 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460	0.00	0.00	0.00	84.68	1,084.78	11.68	278.86	0.00	0.00
125 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400	0.00	0.00	0.00	23.20	297.20	3.20	76.40	0.00	0.00
Sub-total			3,275	0.00	915.00	915.00	107.88	1,381.98	14.88	355.26	0.00	500.00
<b>Total Cost Attribution</b>			<b>214,750</b>	<b>145,600.00</b>	<b>8,828.00</b>	<b>8,828.00</b>	<b>3,295.33</b>	<b>42,220.10</b>	<b>454.13</b>	<b>10,854.44</b>	<b>0.00</b>	<b>3,498.35</b>

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

# 2025 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial 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. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby		D	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Allowance for Sanitary sewers in conjunction with Regional Roads		C	2,000	0.00	2,000.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			2,200	0.00	2,200.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Area Municipality Road Programs</b>												
14A City of Pickering Road Program		D,C	235	0.00	235.00	235.00	0.00	0.00	0.00	0.00	0.00	0.00
14B Town of Ajax Road Program		D,C	365	0.00	365.00	365.00	0.00	0.00	0.00	0.00	0.00	0.00
14C Town of Whitby Road Program		D,C	390	0.00	390.00	390.00	0.00	0.00	0.00	0.00	0.00	0.00
14D City of Oshawa Road Program		D,C	1,110	0.00	1,110.00	1,110.00	0.00	0.00	0.00	0.00	0.00	0.00
14E Municipality of Clarington Road Program		D,C	300	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
14F Township of Scugog Road Program		D,C	75	0.00	75.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00
14G Township of Uxbridge Road Program		D,C	335	0.00	335.00	335.00	0.00	0.00	0.00	0.00	0.00	0.00
14H Township of Brock Road Program		D,C	111	0.00	111.00	111.00	0.00	0.00	0.00	0.00	0.00	0.00
14i Allowance for unknown requirements in conjunction with area municipality road programs		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,021	0.00	3,021.00	3,021.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>MTO &amp; GO Transit projects</b>												
* 16 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Betterments/Replacements</b>												
17 Works independent of road programs in various locations		D,C	621	0.00	621.00	621.00	0.00	0.00	0.00	0.00	0.00	0.00
38 Replacement of sanitary sewers in various locations		D,C	2,998	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,998.35
39 Allowance for construction of services in unserved areas		C	200	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total			3,819	0.00	821.00	821.00	0.00	0.00	0.00	0.00	0.00	2,998.35
<b>System Expansion</b>												
* 43 Twinning of Duffin Creek TSS from Bayly St. to Hwy 401, Ajax		D	1,000	0.00	0.00	0.00	58.00	743.00	8.00	191.00	0.00	0.00
* 49 Ash Trunk Sanitary Sewer, Whitby		EA	1,100	0.00	0.00	0.00	63.80	817.30	8.80	210.10	0.00	0.00
* 66 Twinning of Spry TSS from Baseline Rd. to N/L Spry		EA	300	0.00	0.00	0.00	17.40	222.90	2.40	57.30	0.00	0.00
* 67 Soper Creek TSS from Mearns Ave. to Concession Rd. 3, Bowmanville		EA	400	0.00	0.00	0.00	23.20	297.20	3.20	76.40	0.00	0.00
Sub-total			2,800	0.00	0.00	0.00	162.40	2,080.40	22.40	534.80	0.00	0.00
<b>B BUILDINGS</b>												
* 82 Corbett Creek WPCP - expansion		EA	1,200	0.00	0.00	0.00	69.60	891.60	9.60	229.20	0.00	0.00
88 Simcoe St. SSPS - replacement	205	EA	500	0.00	50.00	50.00	101.70	0.00	13.95	334.35	0.00	0.00
89 Courtice WPCP - expansion	201	D	3,000	0.00	0.00	0.00	315.00	1,599.00	42.00	1,044.00	0.00	0.00
91 Northeast SSPS, Bowmanville	302	EA	500	0.00	0.00	0.00	52.50	266.50	7.00	174.00	0.00	0.00
* 93 Newcastle WPCP - Expansion from 7,200 m <sup>3</sup> /d to 14,000 m <sup>3</sup> /d	310	D	1,000	0.00	0.00	0.00	105.00	533.00	14.00	348.00	0.00	0.00
Sub-total			6,200	0.00	50.00	50.00	643.80	3,290.10	86.55	2,129.55	0.00	0.00

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# 2025 Construction Program - Sanitary Sewerage

26-Jan-16

Project Description	DC Item No.	EA Land Design Const.	Gross Cost A	Grant/ Subsidy/ Other B	Cost Expenditure Attribution (\$ 000's)							
					User Revenue		Commercial Development Charges E	Residential Development Charges F	New Institutional Charges G	New Industrial Charges H	Asset Management Reserve Fund I	
					Benefit to Existing C	Total User Revenue D						
<b>C MACHINERY AND EQUIPMENT</b>												
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>D IT INFRASTRUCTURE</b>												
Sub-total			0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>E ALLOWANCES AND OTHER PROVISIONS</b>												
113 Inflow/infiltration studies in various locations		D,C	500	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
115 Asset Condition Assessments - Report		D	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
116 Asset Condition Assessment/Investigation TSS Systems		D	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00
118 Allowance for acquisition of easements		L	150	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
119 Allowance for engineering studies		D	50	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
121 Preliminary Engineering		D	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
122 Allowance for sundry extensions as per council policy		D,C	15	0.00	15.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
123 Allowance for unknown requirements		D,C	100	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
124 Allowance for Regional share for works in conjunction with residential subdivision development	707	D,C	1,460	0.00	0.00	0.00	84.68	1,084.78	11.68	278.86	0.00	0.00
125 Allowance for Regional share for works in conjunction with non-residential development	705	D,C	400	0.00	0.00	0.00	23.20	297.20	3.20	76.40	0.00	0.00
Sub-total			3,275	0.00	915.00	915.00	107.88	1,381.98	14.88	355.26	0.00	500.00
<b>Total Cost Attribution</b>			<b>21,415</b>	<b>0.00</b>	<b>7,107.00</b>	<b>7,107.00</b>	<b>914.08</b>	<b>6,752.48</b>	<b>123.83</b>	<b>3,019.61</b>	<b>0.00</b>	<b>3,498.35</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. 1</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 2 (Simcoe St.) from Rossland Rd. to Robert St., Oshawa</p> <p>Project No. R1006</p>
<b>RELATED PROJECTS</b>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	185.000						185.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	900.000	260.000					1,160.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	1,085.000	260.000	0.000	0.000	0.000	0.000	1,345.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES	1,085.000	260.000					1,345.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	1,085.000	260.000	0.000	0.000	0.000	0.000	1,345.000

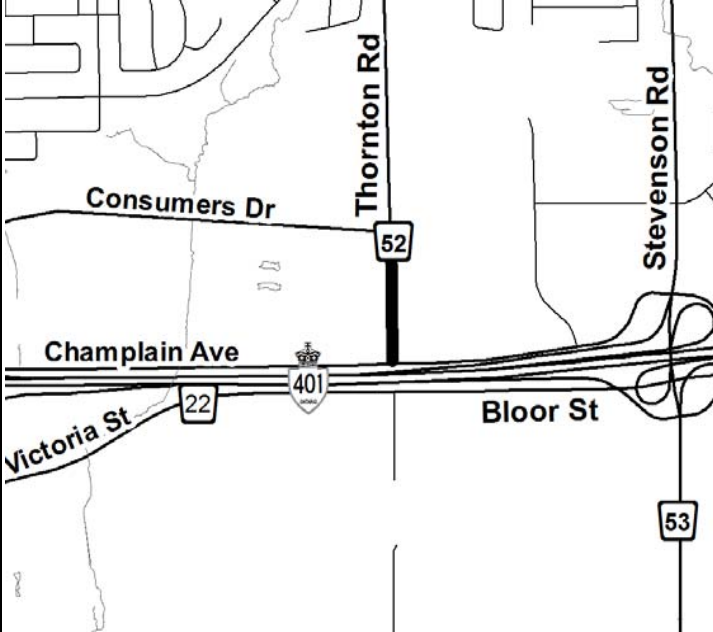
NEED/EXPLANATION OF PROJECT

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 3</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 16 (Ritson Rd.) from 51 m south of Maine St. to Given Rd., Oshawa</p> <p>Project No. R1510</p>
<b>RELATED PROJECTS</b>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		57.000					57.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		343.000					343.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	400.000	0.000	0.000	0.000	0.000	400.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		400.000					400.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	400.000	0.000	0.000	0.000	0.000	400.000

<b>NEED/EXPLANATION OF PROJECT</b>
Sanitary Sewer limits: Maine St. to Britannia Ave.



PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 8</b></p> <p><u>REGIONAL ROAD PROGRAM</u></p> <p>R.R. 52 (Thornton Rd.) from Champlain Ave. to Consumers Dr. Oshawa</p> <p>Project No. R1407</p>
RELATED PROJECTS
<p><i>City of Oshawa</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		50.000					50.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			400.000				400.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	50.000	400.000	0.000	0.000	0.000	450.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		50.000	400.000				450.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	50.000	400.000	0.000	0.000	0.000	450.000

NEED/EXPLANATION OF PROJECT

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 14A</b></p> <p><b>Area Municipality Road Programs</b>                      CITY OF PICKERING ROAD PROGRAM                      (0 Projects)</p> <p>Refer to Construction of Municipal Services summary                      for list of streets                      Project No.: -</p>
<b>RELATED PROJECTS</b>
2016 Water Supply Capital Budget Item No. 20A
No Works proposed in 2016

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING			33.400	33.400	33.400	33.400	133.600
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			201.600	201.600	201.600	201.600	806.400
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	0.000	235.000	235.000	235.000	235.000	940.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES			235.000	235.000	235.000	235.000	940.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	0.000	235.000	235.000	235.000	235.000	940.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 14B</b></p> <p><b>Area Municipality Road Programs</b>                      TOWN OF AJAX ROAD PROGRAM                      (6 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets                      Project No.: A1699</p>
<b>RELATED PROJECTS</b>
2016 Water Supply Capital Budget Item No. 20B

**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		50.000	55.200	55.200	55.200	55.200	270.800
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			329.800	329.800	329.800	329.800	1,319.200
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	50.000	385.000	385.000	385.000	385.000	1,590.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		50.000	385.000	385.000	385.000	385.000	1,590.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	50.000	385.000	385.000	385.000	385.000	1,590.000

**NEED/EXPLANATION OF PROJECT**

Replacement of deficient sanitary sewers and/or construction of new works in conjunction with road reconstruction proposed by the Town of Ajax

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 14C</b></p> <p><b>Area Municipality Road Programs</b>                      TOWN OF WHITBY ROAD PROGRAM                      (4 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets                      Project No.: W1699</p>
<b>RELATED PROJECTS</b>
2016 Water Supply Capital Budget Item No. 20C

**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		135.000	47.000	47.000	47.000	47.000	323.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		530.000	343.000	343.000	343.000	343.000	1,902.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	665.000	390.000	390.000	390.000	390.000	2,225.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		665.000	390.000	390.000	390.000	390.000	2,225.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	665.000	390.000	390.000	390.000	390.000	2,225.000

**NEED/EXPLANATION OF PROJECT**

Replacement of deficient sanitary sewers and/or construction of new works in conjunction with road reconstruction proposed by the Town of Whitby.

PROJECT LOCATION & DESCRIPTION
<p>ITEM NO. 14D</p> <p><u>Area Municipality Road Programs</u>                      CITY OF OSHAWA ROAD PROGRAM                      (12 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets                      Project No.: O1699</p>
RELATED PROJECTS
<p>2016 Water Supply Capital Budget Item No. 20D</p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		50.000	160.000	160.000	160.000	160.000	690.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		240.000	950.000	950.000	950.000	950.000	4,040.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	290.000	1,110.000	1,110.000	1,110.000	1,110.000	4,730.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		290.000	1,110.000	1,110.000	1,110.000	1,110.000	4,730.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	290.000	1,110.000	1,110.000	1,110.000	1,110.000	4,730.000

NEED/EXPLANATION OF PROJECT

Replacement of deficient sanitary sewers and/or construction of new works in conjunction with road reconstruction proposed by the City of Oshawa.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 14E</b></p> <p><b>Area Municipality Road Programs</b>                      MUNICIPALITY OF CLARINGTON ROAD PROGRAM                      (5 Projects)</p> <p>Refer to Construction of Municipal Services summary                      for list of streets                      Project No.: C1699</p>
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Capital Budget Item No. 20E

**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		150.000	45.000	45.000	45.000	45.000	330.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		900.000	255.000	255.000	255.000	255.000	1,920.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	1,050.000	300.000	300.000	300.000	300.000	2,250.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		1,050.000	300.000	300.000	300.000	300.000	2,250.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	1,050.000	300.000	300.000	300.000	300.000	2,250.000

**NEED/EXPLANATION OF PROJECT**

Replacement of deficient sanitary sewers and/or construction of new works in conjunction with road reconstruction proposed by the Municipality of Clarington.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 14F</b></p> <p><u>Area Municipality Road Programs</u>                      TOWNSHIP OF SCUGOG ROAD PROGRAM                      (1 Project)</p> <p>Refer to Construction of Municipal Services summary for list of streets                      Project No.: S1699</p>
<b>RELATED PROJECTS</b>
2016 Water Supply Capital Budget Item No. 20F

**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		50.000	10.700	10.700	10.700	10.700	92.800
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			64.300	64.300	64.300	64.300	257.200
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	50.000	75.000	75.000	75.000	75.000	350.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		50.000	75.000	75.000	75.000	75.000	350.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	50.000	75.000	75.000	75.000	75.000	350.000

**NEED/EXPLANATION OF PROJECT**

Replacement of deficient sanitary sewers and/or construction of new works in conjunction with road reconstruction proposed by the Township of Scugog.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 14G</b></p> <p><b>Area Municipality Road Programs</b>                      TOWNSHIP OF UXBRIDGE ROAD PROGRAM                      (0 Projects)</p> <p>Refer to Construction of Municipal Services summary for list of streets                      Project No.: -</p>
<b>RELATED PROJECTS</b>
2016 Water Supply Capital Budget Item No. 20G
No Works proposed in 2016

**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING			45.000	45.000	45.000	45.000	180.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			290.000	290.000	290.000	290.000	1,160.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	0.000	335.000	335.000	335.000	335.000	1,340.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES			335.000	335.000	335.000	335.000	1,340.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	0.000	335.000	335.000	335.000	335.000	1,340.000

**NEED/EXPLANATION OF PROJECT**

Replacement of deficient sanitary sewers and/or construction of new works in conjunction with road reconstruction proposed by the Township of Uxbridge.



**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 14H</b></p> <p><b>Area Municipality Road Programs</b>                      TOWNSHIP OF BROCK ROAD PROGRAM                      (1 Project)</p> <p>Refer to Construction of Municipal Services summary for list of streets                      Project No.: -</p>
<b>RELATED PROJECTS</b>
2016 Water Supply Capital Budget Item No. 20H
No Works proposed in 2016

**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING			16.000	16.000	16.000	16.000	64.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			95.000	95.000	95.000	95.000	380.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	0.000	111.000	111.000	111.000	111.000	444.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		0.000	111.000	111.000	111.000	111.000	444.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	0.000	111.000	111.000	111.000	111.000	444.000

**NEED/EXPLANATION OF PROJECT**

Replacement of deficient sanitary sewers and/or construction of new works in conjunction with road reconstruction proposed by the Township of Brock.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 14i</b></p> <p><b>Area Municipality Road Programs</b>                      ALLOWANCE FOR UNKINOWN REQUIREMENTS IN CONJUNCTION WITH AREA MUNICIPALITY ROAD PROGRAMS</p> <p>Project No.: M1603</p>
<b>RELATED PROJECTS</b>
2016 Water Supply Capital Budget Item No. 20i

**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		16.000	16.000	16.000	16.000	16.000	80.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		84.000	84.000	84.000	84.000	84.000	420.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		100.000	100.000	100.000	100.000	100.000	500.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000

**NEED/EXPLANATION OF PROJECT**

This allowance is to provide for unanticipated sanitary sewer works in conjunction with area municipality road programs in various locations (Items 11A to 11H)

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 14</b></p> <p><b><u>WORKS TO RECTIFY IDENTIFIED SYSTEM DEFICIENCIES</u></b></p> <p>Refer to construction of Municipal Services summary for list of streets</p> <p>In conjunction with area municipality road programs, Items 14A to 14i \$2,205,000</p>
RELATED PROJECTS

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT		0.000	0.000	0.000	0.000	0.000	0.000
ENGINEERING		451.000	428.300	428.300	428.300	428.300	2,164.200
LAND ACQUISITION		0.000	0.000	0.000	0.000	0.000	0.000
UTILITY RELOCATION		0.000	0.000	0.000	0.000	0.000	0.000
CONSTRUCTION		1,754.000	2,612.700	2,612.700	2,612.700	2,612.700	12,204.800
CONTINGENCY		0.000	0.000	0.000	0.000	0.000	0.000
OTHER		0.000	0.000	0.000	0.000	0.000	0.000
<b>TOTAL EXPENDITURES</b>		<b>2,205.000</b>	<b>3,041.000</b>	<b>3,041.000</b>	<b>3,041.000</b>	<b>3,041.000</b>	<b>14,369.000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS		0.000	0.000	0.000	0.000	0.000	0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		0.000	0.000	0.000	0.000	0.000	0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*		0.000	0.000	0.000	0.000	0.000	0.000
USER REVENUES		2,205.000	3,041.000	3,041.000	3,041.000	3,041.000	14,369.000
DEBENTURES		0.000	0.000	0.000	0.000	0.000	0.000
OTHER		0.000	0.000	0.000	0.000	0.000	0.000
<b>TOTAL ATTRIBUTION</b>		<b>2,205.000</b>	<b>3,041.000</b>	<b>3,041.000</b>	<b>3,041.000</b>	<b>3,041.000</b>	<b>14,369.000</b>

The replacement of deficient sanitary sewers and/or construction of required works is proposed to be carried out in conjunction with area municipality road programs (Item No.'s 14A to 14i)

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION
<b>ITEM NO. 17</b> <b>BETTERMENTS/ REPLACEMENTS</b> <u>Works to rectify identified system deficiencies independent of road programs in various locations</u> (5 Projects)
Project No. M1699
<b>RELATED PROJECTS</b>
2016 Water Supply Capital Budget Item No. 22

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		53.000	160.000	66.000	75.100	75.100	429.200
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		372.000	733.000	309.000	545.900	545.900	2,505.800
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	425.000	893.000	375.000	621.000	621.000	2,935.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		425.000	893.000	375.000	621.000	621.000	2,935.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	425.000	893.000	375.000	621.000	621.000	2,935.000

NEED/EXPLANATION OF PROJECT
Provision for replacement and/or rehabilitation of deficient sanitary sewers independent of road programs in various locations.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 18</b></p> <p><b><u>BETTERMENTS/ REPLACEMENTS</u></b></p> <p>System upgrades for Pickering (West Shore area) to address inflow/infiltration study, sanitary sewer work, Pickering</p> <p>Project No. P1503</p>
RELATED PROJECTS
<p>2015 Water Supply Capital Budget Item No. 23</p> <p>2015 Sanitary Sewerage Capital Budget Item No. 16</p>
<p><i>City of Pickering</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	678.000	200.000					878.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	3,992.000	1,200.000					5,192.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	4,670.000	1,400.000	0.000	0.000	0.000	0.000	6,070.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES	4,670.000	1,400.000					6,070.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	4,670.000	1,400.000	0.000	0.000	0.000	0.000	6,070.000

NEED/EXPLANATION OF PROJECT

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 26</b></p> <p><b><u>BETTERMENTS/ REPLACEMENTS</u></b></p> <p>Replacement of sanitary sewer on Simcoe St. from Lloyd St. to John St., Oshawa</p> <p>Project No. O1602</p>
RELATED PROJECTS
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		65.000					65.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			290.000				290.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	65.000	290.000	0.000	0.000	0.000	355.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER-AMRF		65.000	290.000				355.000
<b>TOTAL ATTRIBUTION</b>	0.000	65.000	290.000	0.000	0.000	0.000	355.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 28</b></p> <p><b>BETTERMENTS/ REPLACEMENTS</b></p> <p>Replacement of sanitary sewer on Nassau St. from John St. W. to King St. W. Oshawa</p> <p>Project No. O1504</p>
<p><b>RELATED PROJECTS</b></p> <p>2015 Sanitary Sewerage Capital Budget Item No. 27</p>
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	100.000	40.000					140.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		360.000	500.000				860.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	100.000	400.000	500.000	0.000	0.000	0.000	1,000.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER - AMRF	100.000	400.000	500.000				1,000.000
<b>TOTAL ATTRIBUTION</b>	100.000	400.000	500.000	0.000	0.000	0.000	1,000.000

NEED/EXPLANATION OF PROJECT
Asset Management Project - Sanitary sewer has reached the end of its useful service life.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 29</b></p> <p><b><u>BETTERMENTS/ REPLACEMENTS</u></b></p> <p>Replacement of sanitary sewer on Highland Ave. from Gliddon Ave. to Athol St., Oshawa</p> <p>Project No. O1508</p>
RELATED PROJECTS
<p><i>City of Oshawa</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		76.400					76.400
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		423.600					423.600
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	500.000	0.000	0.000	0.000	0.000	500.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER - AMRF		500.000					500.000
<b>TOTAL ATTRIBUTION</b>	0.000	500.000	0.000	0.000	0.000	0.000	500.000

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



**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 35</b></p> <p><b><u>BETTERMENTS/ REPLACEMENTS</u></b></p> <p>Replacement of sanitary forcemain on Wilmot Creek easement from Cobbledick Rd. to Toronto St., Newcastle</p> <p>Project No. C1502</p>
RELATED PROJECTS
<p><i>Municipality of Clarington (Newcastle)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	6.000	150.000					156.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		950.000					950.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	6.000	1,100.000	0.000	0.000	0.000	0.000	1,106.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES	6.000						6.000
DEBENTURES							0.000
OTHER- AMRF		1,100.000					1,100.000
<b>TOTAL ATTRIBUTION</b>	6.000	1,100.000	0.000	0.000	0.000	0.000	1,106.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 45</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>West Whitby Trunk Sanitary Sewer, Whitby</p> <p>Project No. D0916</p>
<p><b>RELATED PROJECTS</b></p> <p>2011 Sanitary Sewerage Capital Budget Item No. 46</p> <p>2012 Sanitary Sewerage Capital Budget Item No. 48</p> <p>2014 Sanitary Sewerage Capital Budget Item No. 37</p>
<p><i>Town of Whitby</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	1,019.000						1,019.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	348.000	14,152.000					14,500.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	<b>1,367.000</b>	<b>14,152.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>15,519.000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	273.750						273.750
NEW COMMERCIAL DEVELOPMENT CHARGES*	32.250						32.250
USER REVENUES	69.000						69.000
DEBENTURES							0.000
OTHER	992.000	14,152.000					15,144.000
<b>TOTAL ATTRIBUTION</b>	<b>1,367.000</b>	<b>14,152.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>15,519.000</b>

NEED/EXPLANATION OF PROJECT
<p>Required to service new development. Regional contract through Front Funding Agreement by Developers Group.</p>

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 55</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Sanitary Sewer on Thornton Rd. from 500 m North of Taunton Rd. to Conlin Rd., Oshawa</p> <p>Project No. D1525</p>
<b>RELATED PROJECTS</b>
<p>The map shows the project location in Oshawa. Thickson Rd N runs vertically on the left. Thornton Rd N runs vertically in the center. Conlin Rd runs horizontally across the top. Taunton Rd runs horizontally across the bottom. Road shields for 26, 4, and 52 are visible.</p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	30.000	200.000					230.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		1,400.000					1,400.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	30.000	1,600.000	0.000	0.000	0.000	0.000	1,630.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	22.290						22.290
NEW COMMERCIAL DEVELOPMENT CHARGES*	1.740						1.740
USER REVENUES	5.970	1,600.000					1,605.970
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	30.000	1,600.000	0.000	0.000	0.000	0.000	1,630.000

NEED/EXPLANATION OF PROJECT

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

**PROJECT LOCATION & DESCRIPTION**

**ITEM NO. 58**  
**SYSTEM EXPANSION**  
 North Oshawa Creek (West Branch) Trunk Sanitary Sewer from Britannia Rd. to south side of hydro corridor, Oshawa  
 Project No. D1603

**RELATED PROJECTS**

*City of Oshawa*

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		415.000					415.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		2,485.000					2,485.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	2,900.000	0.000	0.000	0.000	0.000	2,900.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		2,154.700					2,154.700
NEW COMMERCIAL DEVELOPMENT CHARGES*		168.200					168.200
USER REVENUES		577.100					577.100
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	2,900.000	0.000	0.000	0.000	0.000	2,900.000

**NEED/EXPLANATION OF PROJECT**

Construction in coordination with subdivision development.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 61</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Courtice Trunk Sanitary Sewer - Phase 2                      100 m north of Energy Dr. to the intersection of Baseline Rd. to and Courtice Rd., Courtice                      Project No. C0702</p>
<p><b>RELATED PROJECTS</b></p> <p>2010 Sanitary Sewerage Capital Budget Item No. 41                      2011 Sanitary Sewerage Capital Budget Item No. 52                      2013 Sanitary Sewerage Capital Budget Item No. 46</p>
<p><i>Municipality of Clarington (Courtice)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	2,959.000	3,700.000		2,050.000		2,650.000	11,359.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	3,480.000	17,400.000		24,000.000		31,200.000	76,080.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	6,439.000	21,100.000	0.000	26,050.000	0.000	33,850.000	87,439.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	4,926.832	1,188.800		19,355.150		25,150.550	50,621.332
NEW COMMERCIAL DEVELOPMENT CHARGES*	384.195	1,223.800		1,510.900		1,963.300	5,082.195
USER REVENUES	1,127.973	4,198.900		5,183.950		6,736.150	17,246.973
DEBENTURES		14,488.500					14,488.500
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	6,439.000	21,100.000	0.000	26,050.000	0.000	33,850.000	87,439.000

NEED/EXPLANATION OF PROJECT
<p>Project to be coordinated with the Courtice Feedermain. Project will be completed in phases.</p> <p>Phase 1: 400 m South of Energy Dr. to 100 m North of Energy Dr. - completed</p> <p>Phase 2: 100 m North of Energy Dr. to the intersection of Baseline Rd. and Courtice Rd.</p> <p>Phase 3 : Baseline Rd. from Courtice Rd. to Trulls Rd. and Trulls Rd. from Baseline Rd. to Bloor St.</p>

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

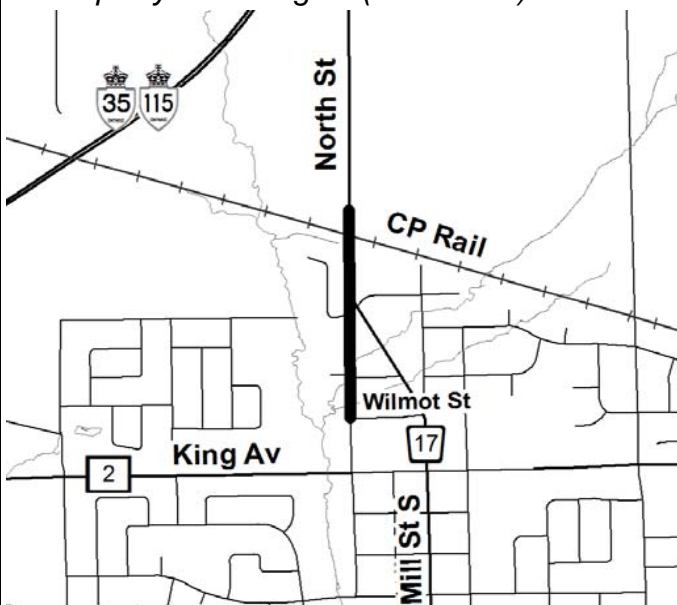
PROJECT LOCATION & DESCRIPTION
<p><b>ITEM NO. 62</b></p> <p>SYSTEM EXPANSION</p> <p>Courtice Trunk Sanitary Sewer - Phase 6 Townline Rd. from Adelaide Ave. to Coldstream Dr., Courtice</p> <p>Project No. C1406</p>
RELATED PROJECTS
<p>2014 Sanitary Sewerage Capital Budget Item No. 48 2015 Sanitary Sewerage Capital Budget Item No. 56 <i>Municipality of Clarington (Courtice)</i></p>
<p>The map shows a street grid in Courtice, Ontario. A vertical line represents the Townline Rd sanitary sewer trunk. It starts at Adelaide Ave at the bottom and goes north to Coldstream Dr. A dashed line indicates the project boundary. Stage 1 is marked between Beatrice St and Coldstream Dr. Stage 2 is marked between Adelaide Ave and Beatrice St. Other streets shown include Taunton Rd, Harmony Rd, Trulls Rd, and Courtice Rd. Highway markers for 33, 34, 4, and 55 are also present.</p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	1,680.000			550.000			2,230.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	9,720.000	5,000.000					14,720.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	11,400.000	5,000.000	0.000	550.000	0.000	0.000	16,950.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	8,470.200	3,715.000		408.650			12,593.850
NEW COMMERCIAL DEVELOPMENT CHARGES*	661.200	290.000		31.900			983.100
USER REVENUES	2,268.600	995.000		109.450			3,373.050
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	11,400.000	5,000.000	0.000	550.000	0.000	0.000	16,950.000

NEED/EXPLANATION OF PROJECT
<p>Courtice Trunk Sanitary Sewer Stage 6 will be completed in stages:                      Stage 1: Beatrice St. to Coldstream Dr.                      Stage 2: Adelaide Ave. to Beatrice St.</p>

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 69</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Foster Creek Trunk Sanitary Sewer on North St. from Wilmot St. to North side of CPR, Newcastle</p> <p>Project No. D1616</p>
<b>RELATED PROJECTS</b>
<p>2016 Water Supply Capital Budget Item No. 59</p> <p><i>Municipality of Clarington (Newcastle)</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		100.000	70.000				170.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			1,030.000				1,030.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	100.000	1,100.000	0.000	0.000	0.000	1,200.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		74.300	817.300				891.600
NEW COMMERCIAL DEVELOPMENT CHARGES*		5.800	63.800				69.600
USER REVENUES		19.900	218.900				238.800
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	100.000	1,100.000	0.000	0.000	0.000	1,200.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 73</b></p> <p><u>SYSTEM EXPANSION</u></p> <p>Twinning of sanitary forcemain from Water St. SSPS to the intersection of Old Simcoe Rd. and R.R. 8, Port Perry</p> <p>Project No. S9732</p>
<b>RELATED PROJECTS</b>
<p><i>Township of Scugog (Port Perry)</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	100.000	200.000	292.000				592.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			3,708.000				3,708.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	100.000	200.000	4,000.000	0.000	0.000	0.000	4,300.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	11.145	22.290	445.800				479.235
NEW COMMERCIAL DEVELOPMENT CHARGES*	0.870	1.742	34.840				37.452
USER REVENUES	87.985	175.968	3,519.360				3,783.313
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	100.000	200.000	4,000.000	0.000	0.000	0.000	4,300.000

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



**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

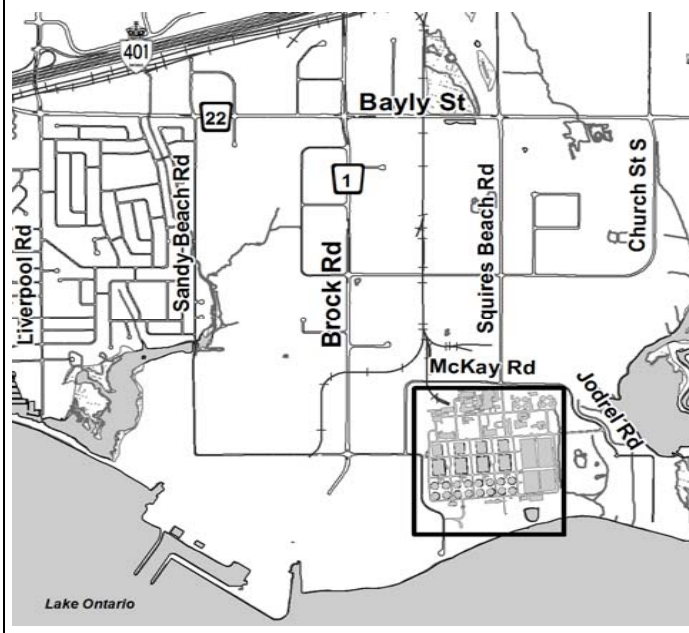
**SANITARY SEWERAGE SYSTEM**

**PROJECT LOCATION & DESCRIPTION**

**ITEM NO. 75**  
**BUILDINGS**  
 Duffin Creek WPCP - Modifications to the Receiving Station, Pickering  
 Project No. Y1601

**RELATED PROJECTS**

*City of Pickering*



**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		70.000					70.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		430.000					430.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	500.000	0.000	0.000	0.000	0.000	500.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		100.000					100.000
DEBENTURES							0.000
OTHER		400.000					400.000
<b>TOTAL ATTRIBUTION</b>	0.000	500.000	0.000	0.000	0.000	0.000	500.000

**NEED/EXPLANATION OF PROJECT**

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

**PROJECT LOCATION & DESCRIPTION**

**ITEM NO. 76**

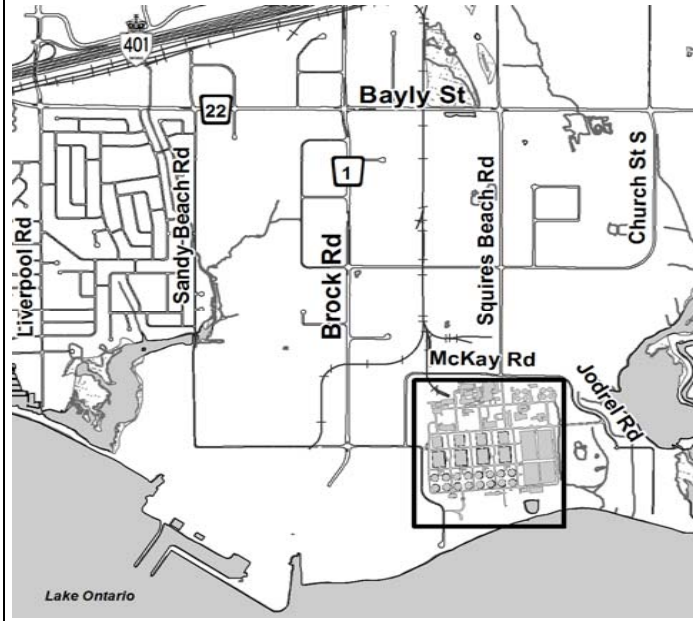
**BUILDINGS**

Duffin Creek WPCP - Regional Environmental Laboratory  
Upgrades, Pickering

Project No. Y1602

**RELATED PROJECTS**

*City of Pickering*



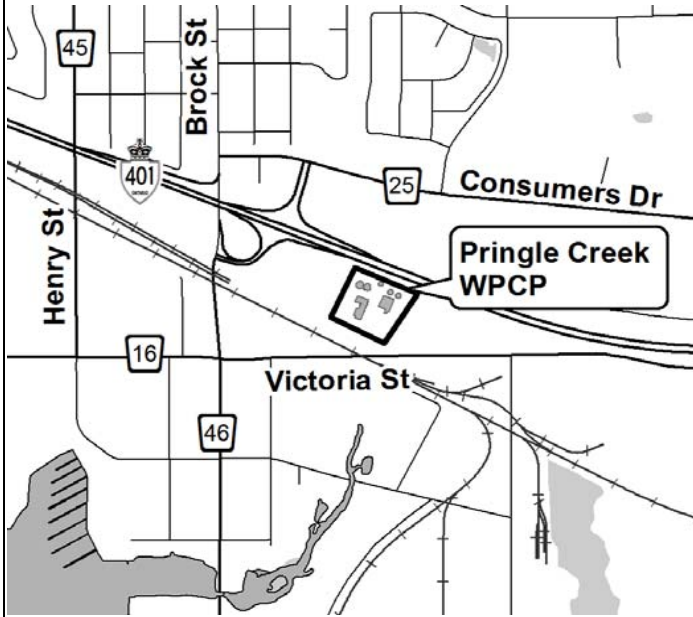
**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		250.000	100.000				350.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION			2,400.000				2,400.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	250.000	2,500.000	0.000	0.000	0.000	2,750.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		92.875	928.750				1,021.625
NEW COMMERCIAL DEVELOPMENT CHARGES*		7.250	72.500				79.750
USER REVENUES		24.875	248.750				273.625
DEBENTURES							0.000
OTHER		125.000	1,250.000				1,375.000
<b>TOTAL ATTRIBUTION</b>	0.000	250.000	2,500.000	0.000	0.000	0.000	2,750.000

**NEED/EXPLANATION OF PROJECT**

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 79</b></p> <p><b>BUILDINGS</b></p> <p>Pringle Creek - demolition and greensite restoration</p> <p>Project No. W1312</p>
<b>RELATED PROJECTS</b>
<p><i>Town of Whitby</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	560.000						560.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	1,680.000	2,000.000					3,680.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	<b>2,240.000</b>	<b>2,000.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>4,240.000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	268.810	573.800					842.610
NEW COMMERCIAL DEVELOPMENT CHARGES*	0.972	90.640					91.612
USER REVENUES	1,970.218	1,335.560					3,305.778
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	<b>2,240.000</b>	<b>2,000.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>4,240.000</b>

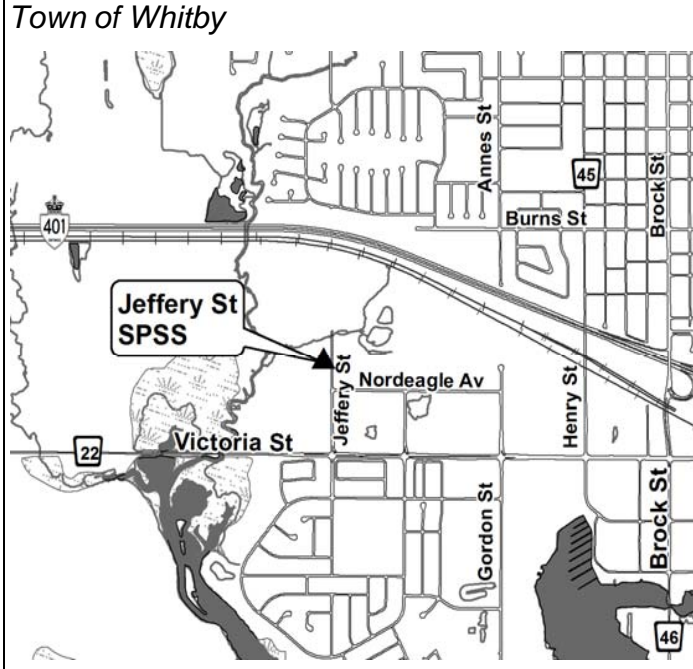
<b>NEED/EXPLANATION OF PROJECT</b>

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 84</b></p> <p><u>BUILDINGS</u></p> <p>Jeffery St. Sanitary Sewage Pumping Station</p> <p>Project No. D1410</p>

<b>RELATED PROJECTS</b>
2014 Sanitary Sewage Capital Budget Item No. 68



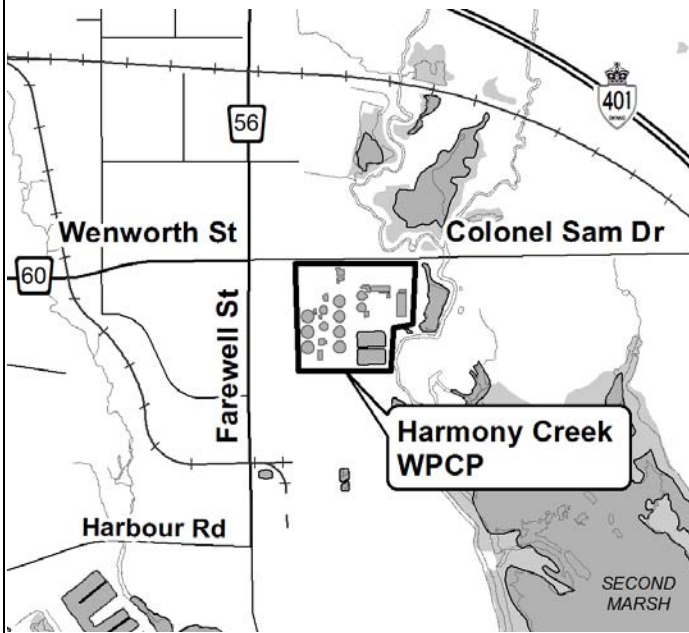
<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
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	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	1,356.000						1,356.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	636.000	25,864.000					26,500.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	<b>1,992.000</b>	<b>25,864.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>27,856.000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES	636.000						636.000
DEBENTURES							0.000
OTHER	1,356.000	25,864.000					27,220.000
<b>TOTAL ATTRIBUTION</b>	<b>1,992.000</b>	<b>25,864.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>27,856.000</b>

<b>NEED/EXPLANATION OF PROJECT</b>
<p>Required to service new development. Regional Contract through Front Funding by Developers Group.</p>

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 85</b></p> <p><b>BUILDINGS</b></p> <p>Harmony Creek WPCP Upgrades and P2 Plan requirements, Oshawa</p> <p>Project No. D0908, D1015 &amp; D1523</p>
<b>RELATED PROJECTS</b>
<p>2011 Sanitary Sewerage Capital Budget Item No. 62</p> <p>2012 Sanitary Sewerage Capital Budget Item No. 64</p> <p>2014 Sanitary Sewerage Capital Budget Item No. 69</p>
<p><i>City of Oshawa</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	2,600.000	1,175.000					3,775.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	7,775.000	2,266.800	5,058.200				15,100.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	<b>10,375.000</b>	<b>3,441.800</b>	<b>5,058.200</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>18,875.000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES	10,375.000	3,441.800	5,058.200				18,875.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	<b>10,375.000</b>	<b>3,441.800</b>	<b>5,058.200</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>18,875.000</b>

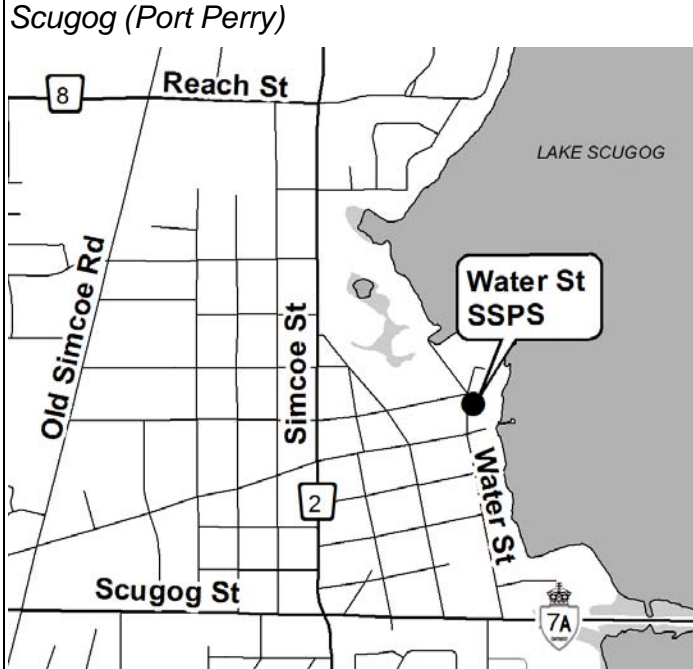
NEED/EXPLANATION OF PROJECT
<p>Multi Phase Project:                  Phase 1 and 2 Completed                  Phase 3 and 4 - Detailed Design in 2016 and construction to commence 2017 and 2018</p>

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 98</b></p> <p><u>BUILDINGS</u></p> <p>Water St. Sanitary Sewage Pumping Station - upgrading</p> <p>Project No. D1304</p>

<b>RELATED PROJECTS</b>
<p>2013 Sanitary Sewerage Capital Budget Item No. 73</p>



<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
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	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT		508.350					508.350
ENGINEERING	400.000						400.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION				1,855.000	950.000	1,680.000	4,485.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	400.000	508.350	0.000	1,855.000	950.000	1,680.000	5,393.350
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
OTHER - AMRF	400.000	508.350		1,855.000	950.000	1,680.000	5,393.350
<b>TOTAL ATTRIBUTION</b>	400.000	508.350	0.000	1,855.000	950.000	1,680.000	5,393.350

<b>NEED/EXPLANATION OF PROJECT</b>
<p>Asset Management Project- project budget to be confirmed and updated upon the completion of the environmental assessment.</p>

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO. 99</b></p> <p><b>BUILDINGS</b></p> <p>New lagoon at the Sunderland WPCP - Lagoon System</p> <p>Project No. K1001</p>
<b>RELATED PROJECTS</b>
<p>2010 Sanitary Sewerage Capital Budget Item No. 73</p> <p>2015 Sanitary Sewerage Capital Budget Item No. 87</p>
<p><i>Township of Brock</i></p>

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	594.000						594.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	2,556.000	900.000					3,456.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	<b>3,150.000</b>	<b>900.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>4,050.000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES	3,150.000	900.000					4,050.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	<b>3,150.000</b>	<b>900.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>4,050.000</b>

NEED/EXPLANATION OF PROJECT
<p>New lagoon required for cleanout and maintenance requirements for the existing lagoons.</p>



**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO.102</b></p> <p><u>MACHINERY AND EQUIPMENT</u>                      Duffin Creek WPCP - refurbishment of Stage I and II Liquids Treatment - Raw Sewage/influent pumping station/ headworks/Primary/Secondary Treatment and electrical substation upgrades                      Project No. Y1101</p>
<p><b>RELATED PROJECTS</b></p> <p>2011 Sanitary Sewerage Capital Budget Item No. 75                      2012 Sanitary Sewerage Capital Budget Item No. 76                      2015 Sanitary Sewerage Capital Budget Item No. 91</p>
<p><i>City of Pickering</i></p>

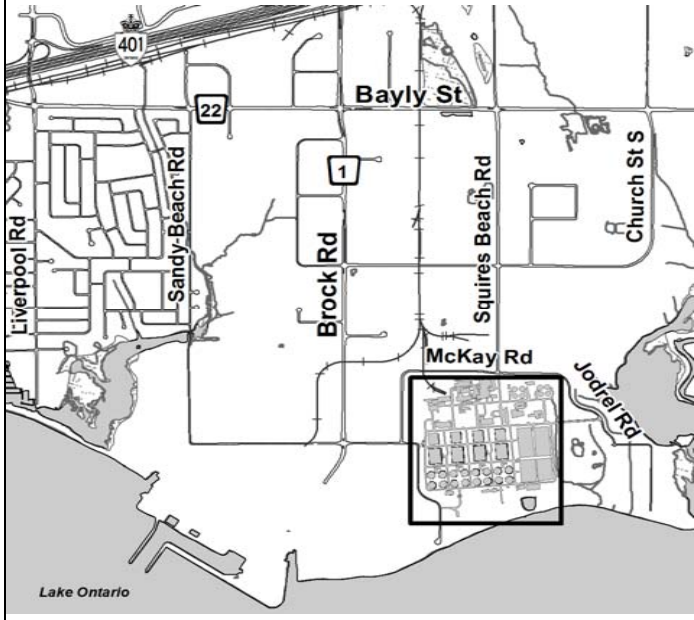
<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	32,000.000						32,000.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	119,110.350	43,571.200	30,558.450				193,240.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	<b>151,110.350</b>	<b>43,571.200</b>	<b>30,558.450</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>225,240.000</b>
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES	526.800						526.800
NEW COMMERCIAL DEVELOPMENT CHARGES*	335.896						335.896
USER REVENUES	5,392.454						5,392.454
DEBENTURES	30,067.650						30,067.650
OTHER	114,787.549	43,571.200	30,558.451				188,917.200
<b>TOTAL ATTRIBUTION</b>	<b>151,110.349</b>	<b>43,571.200</b>	<b>30,558.451</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>225,240.000</b>

<b>NEED/EXPLANATION OF PROJECT</b>
<p>The Regions are required to upgrade the odour control system as part of the MOECC's Environmental Compliance Approval (ECA). Upgrades are being planned and constructed as part of Stage 1 and 2 liquids process.</p>



**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<p><b>ITEM NO.103</b></p> <p><u>MACHINERY AND EQUIPMENT</u></p> <p>Duffin Creek WPCP - digester mixing improvements and MCC replacement, Pickering</p> <p>Project No. Y1502</p>
<b>RELATED PROJECTS</b>
<p>2015 Sanitary Sewerage Capital Budget Item No. 91</p>
<p><i>City of Pickering</i></p> 

BUDGET PROVISION AND COST ATTRIBUTION (\$000's)							
	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	1,784.000						1,784.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION	216.000	5,000.000	5,900.000				11,116.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	2,000.000	5,000.000	5,900.000	0.000	0.000	0.000	12,900.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES	524.000	1,310.000	1,545.800				3,379.800
DEBENTURES							0.000
OTHER	1,476.000	3,690.000	4,354.200				9,520.200
<b>TOTAL ATTRIBUTION</b>	2,000.000	5,000.000	5,900.000	0.000	0.000	0.000	12,900.000

<b>NEED/EXPLANATION OF PROJECT</b>
<p>Cost Sharing with York Region.</p>

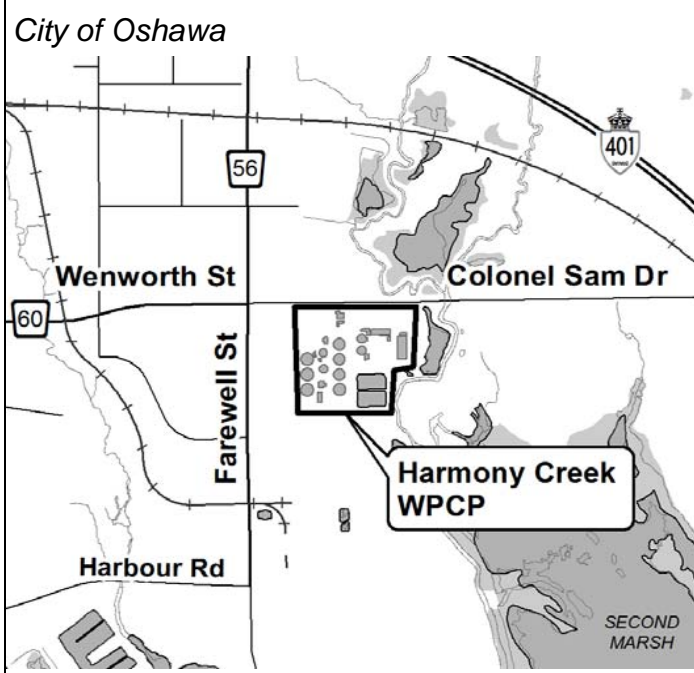
**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

**PROJECT LOCATION & DESCRIPTION**

**ITEM NO. 108**  
MACHINERY AND EQUIPMENT  
 Harmony Creek WPCP - instrumentation and control system upgrades, Oshawa  
 Project No. D1308

**RELATED PROJECTS**



**BUDGET PROVISION AND COST ATTRIBUTION (\$000's)**

	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Four Year Forecast				TOTAL
			2017	2018	2019	2020	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING	150.000	100.000					250.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		825.000					825.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	150.000	925.000	0.000	0.000	0.000	0.000	1,075.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES							0.000
DEBENTURES							0.000
AMRF	150.000	925.000					1,075.000
<b>TOTAL ATTRIBUTION</b>	150.000	925.000	0.000	0.000	0.000	0.000	1,075.000

**NEED/EXPLANATION OF PROJECT**

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 113</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Inflow/ infiltration studies and required remedial works in various locations
Project No. D0606
<b>RELATED PROJECTS</b>

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		250.000	70.000	70.000	70.000	70.000	530.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		250.000	430.000	430.000	430.000	430.000	1,970.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	500.000	500.000	500.000	500.000	500.000	2,500.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		500.000	500.000	500.000	500.000	500.000	2,500.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	500.000	500.000	500.000	500.000	500.000	2,500.000

<b>NEED/EXPLANATION OF PROJECT</b>
Studies to identify areas of excessive infiltration into sanitary sewers and construction of required remedial works.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 118</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for acquisition of easements
Project No. M1601
<b>RELATED PROJECTS</b>
2016 Water Supply Budget Item No.165

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING							0.000
LAND ACQUISITION		150.000	150.000	150.000	150.000	150.000	750.000
UTILITY RELOCATION							0.000
CONSTRUCTION							0.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	150.000	150.000	150.000	150.000	150.000	750.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		150.000	150.000	150.000	150.000	150.000	750.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	150.000	150.000	150.000	150.000	150.000	750.000

<b>NEED/EXPLANATION OF PROJECT</b>
A number of sanitary sewers 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.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 119</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for engineering studies
Project No. M1607
<b>RELATED PROJECTS</b>
2016 Water Supply Budget Item No.166

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		150.000	50.000	50.000	50.000	50.000	350.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION							0.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	150.000	50.000	50.000	50.000	50.000	350.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		150.000	50.000	50.000	50.000	50.000	350.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	150.000	50.000	50.000	50.000	50.000	350.000

<b>NEED/EXPLANATION OF PROJECT</b>
This provision is for miscellaneous engineering studies which require specialized expertise.

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 121</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Preliminary Engineering
Project No. 66143
<b>RELATED PROJECTS</b>
2016 Water Supply Budget Item No.167

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		100.000	100.000	100.000	100.000	100.000	500.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION							0.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		100.000	100.000	100.000	100.000	100.000	500.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 122</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for sundry extensions as per Council policy
Project No. M1608
<b>RELATED PROJECTS</b>
2016 Water Supply Budget Item No.168

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		2.200	2.200	2.200	2.200	2.200	11.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		12.800	12.800	12.800	12.800	12.800	64.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	15.000	15.000	15.000	15.000	15.000	75.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		15.000	15.000	15.000	15.000	15.000	75.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	15.000	15.000	15.000	15.000	15.000	75.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 123</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for unknown requirements
Project No. M1609
<b>RELATED PROJECTS</b>
2016 Sanitary Sewerage Budget Item No. 169

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		14.000	14.000	14.000	14.000	14.000	70.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		86.000	86.000	86.000	86.000	86.000	430.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		100.000	100.000	100.000	100.000	100.000	500.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	100.000	100.000	100.000	100.000	100.000	500.000

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



**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 124</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for Regional share for works in conjunction with residential subdivision development
Project No. M1610
<b>RELATED PROJECTS</b>
2016 Water Supply Budget Item No.170

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		200.000	200.000	200.000	200.000	200.000	1,000.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		1,260.000	1,260.000	1,260.000	1,260.000	1,260.000	6,300.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	1,460.000	1,460.000	1,460.000	1,460.000	1,460.000	7,300.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		1,084.780	1,084.780	1,084.780	1,084.780	1,084.780	5,423.900
NEW COMMERCIAL DEVELOPMENT CHARGES*		84.680	84.680	84.680	84.680	84.680	423.400
USER REVENUES		290.540	290.540	290.540	290.540	290.540	1,452.700
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	1,460.000	1,460.000	1,460.000	1,460.000	1,460.000	7,300.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 125</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Allowance for Regional share for works in conjunction with non-residential development
Project No. M1611
<b>RELATED PROJECTS</b>
2016 Water Supply Budget Item No.171

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		57.200	57.200	57.200	57.200	57.200	286.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		342.800	342.800	342.800	342.800	342.800	1,714.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	400.000	400.000	400.000	400.000	400.000	2,000.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES		297.200	297.200	297.200	297.200	297.200	1,486.000
NEW COMMERCIAL DEVELOPMENT CHARGES*		23.200	23.200	23.200	23.200	23.200	116.000
USER REVENUES		79.600	79.600	79.600	79.600	79.600	398.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	400.000	400.000	400.000	400.000	400.000	2,000.000

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

**REGION OF DURHAM, 2016 CAPITAL BUDGET PROJECT DETAIL**

**SANITARY SEWERAGE SYSTEM**

<b>PROJECT LOCATION &amp; DESCRIPTION</b>
<b>ITEM NO. 126</b>
<u>ALLOWANCES AND OTHER PROVISIONS</u>
Fuel Tank Compliance
Project No. D1613
<b>RELATED PROJECTS</b>
2016 Water Supply Budget Item No.172

<b>BUDGET PROVISION AND COST ATTRIBUTION (\$000's)</b>							
	<b>BUDGET PRIOR TO 2016</b>	<b>2016 CAPITAL BUDGET</b>	<b>Four Year Forecast</b>				<b>TOTAL</b>
			<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
<b>EXPENDITURES:</b>							
ENVIRONMENTAL ASSESSMENT							0.000
ENGINEERING		190.000					190.000
LAND ACQUISITION							0.000
UTILITY RELOCATION							0.000
CONSTRUCTION		160.000	1,000.000				1,160.000
CONTINGENCY							0.000
OTHER							0.000
<b>TOTAL EXPENDITURES</b>	0.000	350.000	1,000.000	0.000	0.000	0.000	1,350.000
<b>ATTRIBUTION:</b>							
SUBSIDY/GRANTS							0.000
NEW RESIDENTIAL DEVELOPMENT CHARGES							0.000
NEW COMMERCIAL DEVELOPMENT CHARGES*							0.000
USER REVENUES		350.000	1,000.000				1,350.000
DEBENTURES							0.000
OTHER							0.000
<b>TOTAL ATTRIBUTION</b>	0.000	350.000	1,000.000	0.000	0.000	0.000	1,350.000

<b>NEED/EXPLANATION OF PROJECT</b>
Allowance for fuel tank inspections in various locations in the Region.

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS	
					2017	2018	2019	2020	2021	2022	2023	2024	2025			
<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. 2 (Simcoe St.) from Rossland Rd. to Robert St., Oshawa Detailed Design Construction Total	R1006	185,000 900,000	260,000										185,000 1,160,000 1,345,000	Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Regional Road Program	
2	R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville Detailed Design Construction Total	R0503					300,000		1,350,000					300,000 1,350,000 1,650,000		
3	R.R. 16 (Ritson Rd.) from 51 m South of Maine St. to Given Rd., Oshawa Detailed Design Construction Total	R1510		57,000 343,000										57,000 343,000 400,000		
4	R.R. 22 (Victoria St.) from South Blair St. to east of Thicksen Rd., Whitby (Realignment) Detailed Design Construction Total	T4011	180,000				860,000							180,000 860,000 1,040,000		Local sanitary sewer to be funded by development. Servicing and financing to be organized with development
5	R.R. 25 (Consumers Dr.) extension from east of Thicksen Rd. to Thornton Rd., Whitby and Oshawa Detailed Design Construction Total	R1320	130,000			1,200,000								130,000 1,200,000 1,330,000		
6	R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas St., Whitby Detailed Design												200,000	200,000		Construction beyond forecast.
7	R.R. 43 (Cochrane St.) from Ferguson St. to Bonacord Ave., Whitby Detailed Design Construction Total	R1519	50,000					600,000						50,000 600,000 650,000		
8	R.R. 52 (Thornton Rd.) from Champlain Ave. to Consumers Dr., Oshawa Detailed Design Construction Total	R1407		50,000		400,000								50,000 400,000 450,000		
9	R.R. 53 (Stevenson Rd.) from Bond St. to Rossland Rd., Oshawa						100,000				1,200,000			1,300,000		
10	R.R. 57 (Martin Rd.) from Baseline Rd. to Nash Rd., Bowmanville Detailed Design Construction Total				400,000		2,200,000	380,000						400,000 2,580,000 2,980,000		Phase 1 - Intersection improvements Hwy 2 and Stevens Rd. Phase 2 - Baseline Rd. to Hwy No. 2 Phase 3 - Stevens Rd. to Nash Rd. (beyond forecast)
11	R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa						40,000	210,000						250,000		
12	R.R. 59 (Gibb St.)/Olive Ave. Interconnection from Simcoe St. to Ritson Rd., Oshawa	R0116								35,000		130,000		165,000		
13	Allowance for sanitary sewers in conjunction with the Regional Road Program			0	1,800,000	1,000,000	500,000	2,000,000	1,200,000	800,000	1,000,000	2,000,000	2,000,000	12,300,000		
Sub-total Regional road program			360,000	710,000	3,800,000	4,060,000	1,180,000	2,740,000	2,760,000	835,000	2,200,000	2,130,000	2,200,000	21,065,000		

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CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
14	<b>Area Municipality Roads Programs</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 14A to 14I), 30 projects and independent of road programs in various locations (Item No.17) 5 projects. Total 35 projects.														
14A	<b>City of Pickering Road Program (0 Projects)</b>  Works forecast for 2017 to 2025			0		235,000	235,000	235,000	235,000	235,000	235,000	235,000	235,000	2,115,000	Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the City of Pickering road program.
14B	<b>Town of Ajax Road Program (6 Projects)</b> Rideout St. from Exeter Rd. to Kings Cres. Clover Ridge Dr. from Harwood Ave. to Dryer Dr. Dryer Dr. from Harwood Ave. to Clements Rd. Graham Crt. Commercial Ave. from Station St. to Hunt St. Hunt St. from Harwood Ave. to Dowty Ave.  Works forecast for 2017 to 2025	A1699		50,000		385,000	365,000	365,000	365,000	365,000	365,000	365,000	365,000	50,000 3,305,000	Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Town of Ajax road program.
14C	<b>Town of Whitby Road Program (4 Projects)</b> Keith St. from Bryon St. to Brock St. Bryon St. from Arthur St. to St. John St. Trent St. from Henry St. to Brock St. Watson St. from Brock St. S. to Dufferin St.  Works forecast for 2017 to 2025	W1699		665,000		390,000	390,000	390,000	390,000	390,000	390,000	390,000	390,000	665,000 3,510,000	Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Town of Whitby road program.
14D	<b>City of Oshawa Road Program (12 Projects)</b> Cubert St. from Tresane St. to Sinclair Ave. Hilbert Ave. from Cubert St. 108 m E of Cubert St. Park Rd. 55m S of College Ave. to Hillside Ave. Sinclair Ave. from West limit to Cubert St. Oshawa Blvd. from Eulalie Ave. to Gliddon Ave. Verdun Rd. from Eulalie Ave. to Gliddon Ave. Grenfell St. from Elmgrove Ave to Pine Ave. Hillside Ave. from Laval Dr./Laval St. to Seville St. Glenwood Ct. from South Limit to Winona Ave. Glenwood Cres. from Winona Ave. to Bessborough Dr. Stevenson Rd. N from Rosslard Rd. W to Ross Ave. Bagot St. from Queen St. to Centre St.  Works forecast for 2017 to 2025	O1699		290,000		1,110,000	1,110,000	1,110,000	1,110,000	1,110,000	1,110,000	1,110,000	1,110,000	290,000 9,990,000	Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the City of Oshawa
14E	<b>Municipality of Clarington Road Program (5 Projects)</b> Bernard St. from Third St. South limits and Third St. from Liberty St. to High St. Jackman Rd. from pedestrian bridge (west limits) to Scugog St. Lamb Ln. from Odell St. to North limits Liberty Place and Alexander Blvd. from Liberty St. to west limits Concession Rd. 3 from Martin Rd. to Liberty St.  Works forecast for 2017 to 2025	C1699		1,050,000		300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	1,050,000 2,700,000	Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Municipality of Clarington road program.
14F	<b>Township of Scugog Road Program (1 Project)</b>  Old Simcoe St. from King St. to Jeffery St., Scugog  Works forecast for 2017 to 2025	S1699		50,000		75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	50,000 675,000	Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Township of Scugog road program.

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CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS	
					2017	2018	2019	2020	2021	2022	2023	2024	2025			
14G	<b>Township of Uxbridge Road Program (0 Projects)</b>  Works forecast for 2017 to 2025			0		335,000	335,000	335,000	335,000	335,000	335,000	335,000	335,000	335,000	3,015,000	Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Township of Uxbridge road program.
14H	<b>Township of Brock Road Program (1 Project)</b> Mara Rd. from Main St. to North of Franklin St.  Works forecast for 2017 to 2025			0		111,000	111,000	111,000	111,000	111,000	111,000	111,000	111,000	111,000	999,000	Replacement of deficient sanitary sewers and/or construction of required works in conjunction with the Township of Brock road program.
14I	Allowance for unknown requirements in conjunction with area municipality road programs in various locations	M1603		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 to provide for unanticipated sanitary sewerage works in conjunction with area municipality road programs in various locations (items No. 11A to 11H)
	Sub-total works to rectify identified deficiencies and/or construction of required works in conjunction with area municipality road programs (items 14A to 14I)			0	2,205,000	3,041,000	3,021,000	3,021,000	3,021,000	3,021,000	3,021,000	3,021,000	3,021,000	3,021,000	29,414,000	
	<b>MTO AND GO Transit Projects</b>															
15	Extension of box culvert at Highway 401 near the site of Pringle Creek WPCP, in conjunction with proposed Highway 401 widening from Brock St. to Stevenson Rd., Whitby/Oshawa												125,000		125,000	Allowance for Regional share of works to correct deficiencies in existing box culvert.
16	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	
	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	225,000	100,000	1,025,000	
	<b>Betterment/Replacement</b>															
17	Works to rectify identified system deficiencies independent of road programs in various locations (5 projects)	M1699		425,000												Provision for replacement and/or rehabilitation of deficient sanitary sewers independent of road programs in various locations.
	Erosion protection for sanitary sewers in various locations	M1615														
	Harmony Creek at Knights of Columbus Park TSS erosion protection															
	Allowance for final restoration for remedial works constructed in prior years	M1616														
	Remedial works in various locations (Locations and priorities under review)	M1617														
	Preliminary engineering/ surveys for future construction of remedial works	M1618														
	Future remedial works in various locations					893,000	375,000	621,000	621,000	621,000	621,000	621,000	621,000	621,000	5,615,000	
	<b>PICKERING/ AJAX SYSTEM</b>															
18	System upgrades for Pickering (West Shore area) to address inflow/infiltration study, Pickering	P1001 P1503	4,670,000	1,400,000											6,070,000	
19	Existing YDSS: Rehabilitation Part 1 - Scarborough Pickering Townline - boundary meter to the intersection of Valley Farm Rd. and Finch Ave., Pickering	Y1501	1,000,000		10,000,000	85,800,000									96,800,000	Cost sharing with the Region of York.
	<b>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</b>															
20	Replacement of sanitary sewer on Centre St. from Dundas St. to Arthur St., Whitby							41,700	833,300						875,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
21	Replacement of sanitary sewer on Maria St. from Annes St. to Frances St., Whitby										440,000				440,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
22	Replacement of a sanitary sewer on Walnut St. from Euclid St. to Kent St., Whitby								170,000						170,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.

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CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
23	Replacement of a sanitary sewer on Orchard Crt from St. Lawrence St. to west limit, Whitby											150,000		150,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
24	Replacement of a sanitary sewer on James St. from King St. to Centre St. South, Whitby											140,000		140,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
25	Replacement of sanitary sewer on Olive Ave. from Court St. to Ritson Rd., Oshawa				500,000		800,000							1,300,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
26	Replacement of sanitary sewer on Simcoe St. from Lloyd St. to John St., Oshawa	O1602		65,000	290,000									355,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
27	Replacement of sanitary sewer on Centre St. from King St. W to Brock St. W., Oshawa	O1503	100,000				700,000							800,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
28	Replacement of sanitary sewer on Nassau St. from John St. W to King St. W, Oshawa	O1504	100,000	400,000	500,000									1,000,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
29	Replacement of sanitary sewer on Highland Ave. from Gliddon Ave. to Athol St., Oshawa	O1508		500,000										500,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
30	Replacement of sanitary sewer on Conant St. from 50 m west of Sylvia St. to 80 m east of Nelson St., Oshawa								790,000					790,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
31	Replacement of sanitary sewer on Park Rd S. from Fenelon Cres. to Gaspé Ave., Oshawa	O1506	160,000			143,350	748,350	251,650						1,303,350	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
32	Replacement of sanitary sewer on Athol St. E. from Simcoe St. to Celina St., Oshawa				150,000									150,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
33	Replacement of sanitary sewer on Adelaide Ave. W. from Kayser St. to Centre St., Oshawa							25,000		425,000				450,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
<b>CLARINGTON (BOWMANVILLE) SYSTEM</b>															
34	Replacement of sanitary sewer on Liberty Place from Liberty St. to Alexander Blvd., Bowmanville				500,000									500,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
<b>CLARINGTON (NEWCASTLE) SYSTEM</b>															
35	Replacement of sanitary forcemain on Wilnot Creek easement from Cobblelick Rd. to Toronto St., Newcastle	C1502	6,000	1,100,000										1,106,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
<b>UXBRIDGE (UXBRIDGE) SYSTEM</b>															
36	Replacement of sanitary sewer on Toronto St. from Mill St. to Brock St.				810,000									810,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
<b>BROCK (BEAVERTON) SYSTEM</b>															
37	Replacement of sanitary sewer on Simcoe St. from CNR to Mill St., Beaverton								520,000					520,000	Asset Management Project - Sanitary sewer has reached the end of its useful service life.
38	Replacement of sanitary sewer in various locations								685,050	2,573,350	2,268,350	2,998,350	2,998,350	11,523,450	Asset Management Project - Sanitary sewer
<b>CONSTRUCTION OF SERVICES IN UNSERVICED AREAS IN RESPONSE TO REQUESTS OR PETITIONS</b>															
39	Allowance for construction of services in unserviced areas in response to requests or petitions				200,000	200,000	760,000	1,745,000	200,000	200,000	200,000	200,000	200,000	3,905,000	Allowance for construction of sanitary sewers in unserviced areas in response to requests or petitions.
Sub-total construction of services in unserviced areas				0	200,000	200,000	760,000	1,745,000	200,000	200,000	200,000	200,000	200,000	3,905,000	
Sub-total Betterments/Replacement				6,036,000	3,890,000	13,843,000	87,218,350	2,929,350	2,684,350	3,819,350	3,819,350	3,819,350	3,819,350	135,272,800	
<b>System Expansion</b>															
<b>PICKERING / AJAX SYSTEM</b>															
40	York/Durham Sewage System - primary trunk sanitary sewer twinning, Pickering Environmental Assessment Detailed Design Construction Total							6,000,000		14,000,000		182,000,000		6,000,000 14,000,000 182,000,000 202,000,000	Cost sharing with York Region

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CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
41	Twinning of forceman from the Liverpool Road SSPS to the Duffin Creek WPCP, Pickering Detailed Design Construction Total	P0503	518,000 8,570,000				1,250,000							518,000 9,820,000 10,338,000	Twinning of the trunk sanitary sewer is required primarily to provide system security and provide increased capacity. Construction beyond forecast
42	Twinning of Monarch Ave. Trunk Sanitary sewer on easement from Bayly St. Mackenzie Ave., Ajax Detailed Design											200,000		200,000	Twinning of the trunk sanitary sewer is required primarily to provide system security and provide increased capacity. Construction beyond forecast
43	Twinning of Duffin Creek Trunk Sanitary Sewer on easement from Bayly St. SSPS to Hwy 401, Ajax Detailed Design												1,000,000	1,000,000	Twinning of the trunk sanitary sewer is required to provide system security and increased capacity. Construction beyond forecast
<b>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</b>															
44	Twinning Harbour St. Trunk Sanitary Sewer from 400 m north of Water St. to Breakwater Sanitary Sewage Pumping Station, Whitby Detailed Design Construction Total								500,000		1,330,000			500,000 1,330,000 1,830,000	Twinning of the trunk sanitary sewer is required primarily to provide system security and provide increased capacity.
45	West Whitby Trunk Sanitary Sewer, Whitby Environmental Assessment/Detailed Design Construction Total	D0916	1,019,000 348,000	14,152,000										1,019,000 14,500,000 15,519,000	Required to service new development. Front end funding by West Whitby Developers group.
46	Corbett Trunk Sanitary Sewer on easement from Wentworth St. to Corbett Creek WPCP, Whitby Detailed Design Construction Total								500,000		2,000,000			500,000 2,000,000 2,500,000	Required to service new development. Timing of construction dependent on rate of development.
47	West Whitby sub trunk on Dundas St. from Coronation Rd. to Halls Rd., Whitby Detailed Design Construction Total											250,000	1,750,000	250,000 1,750,000 2,000,000	Required to service new development. Timing of construction dependent on rate of development.
48	Brooklin Trunk Sanitary Sewer on easement from Anderson St. to Thicksen Rd. Sanitary Sewage Pumping Station, Whitby Detailed Design Construction Total								800,000		3,350,000			800,000 3,350,000 4,150,000	Required to service new development. Timing of construction dependent on rate of development.
49	Ash Creek Trunk Sanitary Sewer from Consumers Dr./Green Rd. to Ash Creek TSS at Pringle Creek WPCP, Whitby Environmental Assessment												1,100,000	1,100,000	Detailed design and construction beyond forecast.
50	Conlin Rd. W. Trunk Sanitary Sewer on Conlin Rd. from Whitby/Oshawa Boundary to Conlin Rd. Sanitary Sewage Pumping Station, Whitby/Oshawa Environmental Assessment Detailed Design Construction Total					500,000			750,000		4,900,000			500,000 750,000 4,900,000 6,150,000	Required to service new development. Timing of construction dependent on rate of development.
51	Farewell Creek Trunk Sanitary Sewer on easement west of Grandview St., Oshawa Twinning Environmental Assessment and Detailed Design Construction Total						300,000	2,400,000						300,000 2,400,000 2,700,000	Required to service new development. Timing of construction dependent on rate of development.
52	Twinning of northwest branch of Harmony Creek Sub-Trunk Sanitary Sewer from Nonquon Rd. to Hilcroft St., Oshawa Detailed Design Construction Total	O9835	350,000					1,900,000						350,000 1,900,000 2,250,000	Replacement of existing surcharged sanitary trunk sewer. Design and land acquisition completed. Construction forecast in 2019, depending on flow monitoring results.
53	North Oshawa Creek (East branch) Trunk Sanitary Sewer on easement from Britannia Rd. to Winchester Rd., Oshawa Detailed Design Construction Total						400,000		3,700,000					400,000 3,700,000 4,100,000	Required to service new development. Timing of construction dependent on rate of development.

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CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS	
					2017	2018	2019	2020	2021	2022	2023	2024	2025			
54	Twinning of Oshawa Creek Trunk Sanitary Sewer from Gibb St. to Greenwood Ave., Oshawa Detailed Design Construction Total						200,000	950,000							200,000 950,000 1,150,000	Twinning of the trunk sanitary sewer is required primarily to provide system security and provide increased capacity.
55	Sanitary sewer on Thornton Rd. from 500 m North of Taunton Rd. to Conlin Rd., Oshawa Detailed Design Construction Total	D1525	30,000	200,000 1,400,000											230,000 1,400,000 1,630,000	
56	Forcemain on Conlin Rd. from Ritson Rd. to Harmony Rd. Oshawa Detailed Design Construction Total							500,000	5,170,000						500,000 5,170,000 5,670,000	
57	North Oshawa Creek (West Branch) Trunk Sanitary Sewer from Conlin Rd. SSPS to Britannia Rd., Oshawa Detailed Design Construction Total					250,000		4,165,000							250,000 4,165,000 4,415,000	Required to service new development. Timing of construction dependent on rate of development.
58	North Oshawa Creek (West Branch) Trunk Sanitary Sewer from Britannia Rd. to south side of hydro corridor, Oshawa Detailed Design Construction Total	D1603		415,000 2,485,000											415,000 2,485,000 2,900,000	Required to service new development. Timing of construction dependent on rate of development.
59	North Oshawa Creek (West Branch) Trunk Sanitary Sewer from south side of hydro corridor to Columbus Rd., Oshawa Detailed Design Construction Total										770,000	14,530,000			770,000 14,530,000 15,300,000	Required to service new development. Timing of construction dependent on rate of development.
60	Courtice Trunk Sanitary Sewer Phase 7 - on Greenhill Dr. from Grandview St. to Harmony Rd. and Harmony Rd. from future Greenhill Dr. to Conlin Rd. Detailed Design Construction Total						600,000	5,600,000							600,000 5,600,000 6,200,000	Required to service new development. Timing of construction dependent on rate of development.
61	Courtice Trunk Sanitary Sewer Environmental Assessment and Detailed Design Phase 1 :400 m South of Energy Dr. to 100 m North of Energy Dr. Phase 2 :100 m North of Energy Dr. to the intersection of Baseline Rd. and Courtice Rd., Courtice Phase 3: Baseline Rd. from Courtice Rd. to Trulls Rd. and Trulls Rd. from Baseline Rd. to Bloor St. Phase 4: Trulls Rd. from Bloor St. to Future Adelaide Ave. Ext. Phase 5: Adelaide Ave. Extension from Trulls Rd. to Townline Rd.	C0702	2,959,000 3,480,000	3,700,000 17,400,000											6,659,000 3,480,000 17,400,000 23,600,000 35,600,000 13,200,000	Environmental Assessment completed Detailed design initiated
62	Courtice Trunk Sanitary Sewer - Phase 6 Townline Rd. from Adelaide Ave. to Coldstream Dr., Oshawa / Courtice Detailed Design Construction Total	C1406	1,680,000 9,720,000	5,000,000			550,000					10,650,000			2,230,000 25,370,000 27,600,000	Required to service new development. Timing of construction dependent on rate of development. Stage 1: Beatrice St. to Coldstream Dr. Stage 2: Adelaide Ave. to Beatrice St
63	Southwest Courtice Trunk Sanitary Sewer on Baseline Rd. from Trulls Rd. to 650 m west of Trulls Rd., Courtice Detailed Design Construction Total								300,000		2,900,000				300,000 2,900,000 3,200,000	Required to service new development. Timing of construction dependent on rate of development.
<b>CLARINGTON (BOWMANVILLE) SYSTEM</b>																
64	Baseline Rd. Trunk Sanitary Sewer from Simpson Ave. to Bennett Rd., Bowmanville Environmental Assessment Detailed Design Construction Total	C1104		250,000				300,000			6,300,000				250,000 300,000 6,300,000 6,850,000	
65	Port Darlington Rd. Trunk Sanitary Sewer from Baseline Rd. to to existing easement, Bowmanville Detailed Design Construction Total							250,000			8,000,000				250,000 8,000,000 8,250,000	Required to service new development. Timing of construction dependent on rate of development.

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CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
66	Twinning of Spry Ave. Trunk Sanitary Sewer from Baseline Rd. to N/L of Spry Ave., Bowmanville Environmental Assessment												300,000	300,000	Required to service new development. Timing of construction dependent on rate of development. Detailed design and construction beyond forecast.
67	Soper Creek Trunk Sanitary Sewer from Mearns Ave. to Concession Rd. 3, Bowmanville Environmental Assessment												400,000	400,000	Required to service new development. Timing of construction dependent on rate of development. Detailed design and construction beyond forecast.
<b>CLARINGTON (NEWCASTLE) SYSTEM</b>															
68	Foster Creek trunk sanitary sewer on easement from Milligan St. to North side of Hwy. 401, Newcastle Environmental Assessment / Detailed Design Construction Total	C1002	331,400				2,968,600							331,400 2,968,600 3,300,000	Required to service new development. Timing of construction dependent on rate of development.
69	Foster Creek Trunk Sanitary Sewer on North St. from Wilmot St. to North side of CPR, Newcastle Detailed Design Construction Total	D1616		100,000	1,100,000									100,000 1,100,000 1,200,000	Required to service new development. Timing of construction dependent on rate of development.
70	Foster Creek Trunk Sanitary Sewer on North side of CPR to Concession Rd. 3, Newcastle Detailed Design Construction Total						100,000	2,100,000						100,000 2,100,000 2,200,000	
71	Wilmot Creek Trunk Sanitary Sewer on easement (through future development) from Rudell Rd. to King St., Newcastle 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 rate of development and system security.
72	Wilmot Creek Trunk Sanitary Sewer on easement (through future development) from King St. to Hwy 115/35, Newcastle Detailed Design Construction Total							130,000	1,170,000					130,000 1,170,000 1,300,000	Required to service new development. Timing of construction dependent on rate of development and system security.
<b>SCUGOG (PORT PERRY) SYSTEM</b>															
73	Twinning of sanitary forcemain from Water St. SPS to the intersection of Old Simcoe Rd. and R.R. 8., Port Perry Detailed Design Construction Total	S9732	100,000	200,000	292,000 3,708,000									592,000 3,708,000 4,300,000	Twinning of forcemain to provide additional capacity for new development and system security.
Sub-total System Expansion			29,355,400	45,052,000	5,350,000	32,418,600	8,715,000	58,100,000	7,720,000	44,130,000	22,820,000	198,480,000	2,800,000	454,941,000	
<b>B BUILDINGS</b>															
<b>PICKERING / AJAX SYSTEM</b>															
74	Class Environmental Assessment to address the outfall limitations at Duffin Creek WPCP, Pickering Cost sharing with York Region Environmental Assessment and Detailed Design Construction Total	Y0802	11,030,000				228,970,000							11,030,000 228,970,000 240,000,000	Cost sharing with York Region. The outfall EA is subject to a decision by The Minister of the Environment and Climate Change.
75	Duffin Creek WPCP - Modifications to Receiving Station. Pickering	Y1601		500,000										500,000	Cost sharing with York Region
76	Duffin Creek WPCP - Regional Environmental Laboratory Upgrades Pickering	Y1602		250,000	2,500,000									2,750,000	Cost sharing with York Region. Allowance provided which is subject to detailed design.
77	Carruthers Sanitary Sewage Pumping Station Expansion from 317 l/s to 634 l/s and stand by power Ajax	D1116	260,000		1,550,000									1,810,000	New pumps and stand by power required for new growth and security.

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CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
78	Harwood Sanitary Sewage Pumping Station Ajax Environmental Assessment Detailed Design Construction Total	D1408	200,000		500,000		3,300,000							3,800,000	Timing of construction dependent on rate of development.
<b><u>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</u></b>															
79	Pringle Creek WPCP - demolition and greensite restoration	W1312	2,240,000	2,000,000										4,240,000	
80	Modifications to existing digesters at the Corbett Creek WPCP to rectify existing deficiencies and to increase solids handling capacity to match WPCP hydraulic capacity Detailed Design and Construction	D0203	20,577,700		600,000	5,800,000								26,977,700	Project is required to increase the solids treatment capacity to match the existing plant hydraulic capacity and to rectify existing deficiencies.
81	Corbett Creek WPCP - New headworks building Conceptual Design Detailed Design Construction Total	D1409	100,000 700,000			4,500,000								5,300,000	
82	Expansion of Corbett Creek WPCP from 84,350 m <sup>3</sup> /d to 109,104 m <sup>3</sup> /d Environmental Assessment and Detailed Design											1,200,000		1,200,000	Expansion to provide capacity for new development. Construction beyond forecast.
83	Thickson Rd. Sanitary Sewage Pumping Station and forcemain, Whitby Environmental Assessment Detailed Design Construction Total				1,000,000		1,200,000			22,800,000				25,000,000	
84	Jeffrey St. Sanitary Sewage Pumping Station Whitby Detailed Design Construction Total	D1410	1,356,000 636,000	25,864,000										27,856,000	Phase 1 works for West Whitby Detailed design to be funded by West Whitby developer's group.
85	Harmony Creek WPCP Upgrades and P2 Plan requirements Oshawa Detailed Design Construction Total	D0908 D1015 D1523	2,600,000 7,775,000	1,175,000 2,266,800	5,058,200									18,875,000	Remedial work required to ensure on-going compliance with regulations, codes and long term sustainability. Pollution Prevention Plans (P2) for Wastewater Plants under the Canadian Environmental Protection Act (CEPA, 1999)
86	Harmony Creek SSPPS - expansion and forcemain twinning Environmental Assessment											500,000		500,000	Timing of construction dependent on rate of development. Detailed design and construction beyond forecast.
87	Conlin Rd. Sanitary Sewage Pumping Station and twinning of the forcemain, Oshawa Environmental Assessment Detailed Design Construction Total				1,000,000		4,800,000		58,000,000					63,800,000	Timing of construction dependent on rate of development.
88	Simcoe St. South Sanitary Sewage Pumping Station and forcemain replacement, Oshawa Environmental Assessment											500,000		500,000	Detailed design and construction beyond forecast.
89	Expansion of Courtice WPCP from 68,200 m <sup>3</sup> /d to 136,400 m <sup>3</sup> /d Environmental Assessment											1,000,000	3,000,000	4,000,000	Expansion to provide capacity for new development. Construction beyond forecast.
90	Baseline Rd. Sanitary Sewage Pumping Station, Courtice Detailed Design Construction Total										350,000		3,300,000	3,650,000	Timing of construction dependent on rate of development.
<b><u>CLARINGTON (BOWMANVILLE) SYSTEM</u></b>															
91	Northeast Sanitary Sewage Pumping Station, Bowmanville Environmental Assessment												500,000	500,000	Detailed design and construction beyond forecast.

CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
<b>CLARINGTON (NEWCASTLE) SYSTEM</b>															
92	Newcastle WPCP - Capacity Re-rating 4,100 m <sup>3</sup> /d to 7,200 m <sup>3</sup> /d and sludge storage Optimization Study Detailed Design Construction Total	D1117	200,000 500,000 3,000,000		4,000,000										Potential for additional capacity through an optimization study and modification to the plant in 2014 subject to MOE approval. Possible plant expansion deferred beyond forecast. Allowance for potential upgrades subject to optimization study.
93	Expansion of Newcastle WPCP from 7,200 m <sup>3</sup> /d to 14,000 m <sup>3</sup> /d and outfall Environmental Assessment												1,000,000	1,000,000	Detailed design and construction beyond forecast.
94	Port Newcastle Sanitary Sewage Pumping Station and forcemain (oversizing)	D1411	100,000		1,100,000									1,200,000	Required to service the Newcastle WSP and surrounding service area.
95	Rudell Rd. Sanitary Sewage Pumping Station decommissioning				500,000									500,000	
96	Sunset Sanitary Sewage Pumping Station decommissioning							500,000						500,000	
<b>UXBRIDGE (UXBRIDGE) SYSTEM</b>															
97	Uxbridge WPCP - Optimization Study and upgrades	D0914 D1204	49,450 600,000		2,100,000									2,700,000	Allowance for potential upgrades subject to optimization study
<b>SCUGOG (PORT PERRY) SYSTEM</b>															
98	Water St. Sanitary Sewage Pumping Station - upgrading Evaluation / Environmental Assessment / Detailed Design Construction Total	D1304	400,000	508,350		1,855,000	950,000	1,680,000						908,350 4,485,000 5,393,350	Asset Management Project - project budget to be confirmed and updated upon the completion of the environmental assessment.
<b>BROCK (SUNDERLAND) SYSTEM</b>															
99	New lagoon at the Sunderland WPCP - Lagoon System Detailed Design Construction Total	K1001	594,000 2,556,000	900,000										594,000 3,456,000 4,050,000	New lagoon required for cleanout and maintenance requirements for the existing lagoons.
100	Feasibility Study for Sunderland WPCP and Cannington WPCP					1,900,000								1,900,000	
<b>REGION WIDE (WASTEWATER SYSTEM)</b>															
101	Septage receiving stations				200,000	1,450,000								1,650,000	Required to accommodate increasing volumes of septage delivered by truck to the Region's WPCPs.
	Sub-total Buildings		55,474,150	33,464,150	19,508,200	234,775,000	19,350,000	2,880,000	58,500,000	22,800,000	1,350,000	3,800,000	6,200,000	458,101,500	
<b>C MACHINERY AND EQUIPMENT</b>															
<b>PICKERING / AJAX SYSTEM</b>															
102	Duffin Creek WPCP- refurbishment of Stage I and II Liquids Treatment - Raw Sewage/Influent Pumping Station/ Headworks/Primary/Secondary Treatment and Electrical Substation upgrades, Pickering	Y1101	151,110,349	43,571,200	30,558,451									225,240,000	The Regions are required to upgrade the odour control system as part of the MOE Certificate of Approval. Upgrades are being planned and constructed as part of Stage 1 & 2 liquids process. Cost sharing with York Region
103	Duffin Creek WPCP - Digester mixing improvements and MCC Replacement, Pickering	Y1502	2,000,000	5,000,000	5,900,000									12,900,000	Cost sharing with York Region
104	Duffin Creek WPCP - Replacement of Reactor No. 2, Pickering Conceptual Design Detailed Design Construction Total	Y1503	1,000,000		6,000,000		79,000,000							1,000,000 6,000,000 79,000,000 86,000,000	Cost sharing with York Region
105	Duffin Creek WPCP - Allowance for Potential upgrades and replacements related to solids processing and decommissioning of buildings, Pickering				1,000,000	15,500,000				1,000,000	9,500,000			27,000,000	Cost sharing with York Region
106	Duffin Creek WPCP - Replacement of Reactor No. 1, Pickering Conceptual Design Detailed Design Construction Total							1,000,000		6,000,000		79,000,000		1,000,000 6,000,000 79,000,000 86,000,000	Cost sharing with York Region

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CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
107	Duffin Creek WPCP - Phosphorous Optimization Study					1,500,000								1,500,000	Cost sharing with York Region
	<b>WHITBY / OSHAWA / CLARINGTON (COURTICE) SYSTEM</b>														
108	Harmony Creek WPCP - instrumentation and control system upgrade, Oshawa Detailed Design Construction Total	D1308	150,000	100,000 825,000										250,000 825,000 1,075,000	Asset Management Project - Control system has reached the end of its useful service life.
109	Madawaska Sanitary Sewage Pumping Station New diesel genset and enclosure, Oshawa Detailed Design Construction Total	D1118	100,000 100,000		1,050,000									100,000 1,150,000 1,250,000	To ensure system operation in the event of electrical power outages.
	<b>CLARINGTON (BOWMANVILLE) SYSTEM</b>														
110	Port Darlington WPCP - Major Maintenance Replacement work, Bowmanville Condition Assessment Allowance Total				248,350	300,000	500,000							248,350 800,000 1,048,350	Asset Management Project - has reached the end of its useful service life
	Sub-total Machinery and Equipment		350,000	49,496,200	44,756,801	96,300,000	500,000	0	1,000,000	7,000,000	88,500,000	0	0	442,013,350	
<b>D</b>	<b>IT INFRASTRUCTURE</b>														
111	SCADA System Master Plan for the sanitary sewage pumping stations and implementation requirements							1,000,000						1,000,000	
	Sub-total IT Infrastructure			0	0	0	0	1,000,000	0	0	0	0	0	1,000,000	
<b>E</b>	<b>ALLOWANCES AND OTHER PROVISIONS</b>														
112	Regional Sewage Master planning study for the Regional Official Plan Review	D1421	800,000				800,000							1,600,000	
113	Inflow/infiltration studies and required remedial works in various locations	D0606		500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000	Studies to identify areas of excessive infiltration into sanitary sewers and construction of required remedial works.
114	Emergency Planning Updating Requirements	D1307	175,000		100,000	100,000									Allowance for updating required to ensure optimal performance during an emergency.
115	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	3,703,350	Provincial requirement to assess condition of all assets and develop a rehabilitation strategy.
116	Asset Condition Assessment/ investigation on trunk sanitary sewer system	D1420	411,000		200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,211,000	Allowance for assessment of large trunk sanitary sewers.
117	Master planning energy management				200,000									200,000	Study to identify a long term strategy for implementation of an efficient and effective energy policy.
118	Allowance for acquisition of easements	M1601		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 sanitary sewers.
119	Allowance for engineering studies	M1607		150,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	600,000	Allowance for miscellaneous engineering studies.
120	Phosphorus Reduction Study for plants North						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.
121	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.
122	Allowance for sundry extensions as per Council policy	M1608		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.
123	Allowance for unknown requirements	M1609		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.
124	Allowance for Regional share for works in conjunction with residential subdivision development	M1610		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.
125	Allowance for Regional share for works in conjunction with non-residential development	M1611		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 sanitary sewers for non-residential development.

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CONSTRUCTION OF MUNICIPAL SERVICES

2016 CAPITAL BUDGET AND NINE YEAR FORECAST

ITEM No.	PROJECT DESCRIPTION	Project No.	BUDGET PRIOR TO 2016	2016 CAPITAL BUDGET	Nine Year Forecast									TOTAL	REMARKS
					2017	2018	2019	2020	2021	2022	2023	2024	2025		
126	Fuel Tank Compliance	D1613		350,000	1,000,000									1,350,000	Allowance for fuel tank inspections in various locations in the Region.
	Sub-total Allowances and Other Provisions		2,389,350	3,225,000	4,575,000	3,375,000	3,275,000	4,325,000	3,275,000	3,275,000	3,275,000	3,275,000	3,275,000	36,189,350	
	<b>TOTAL GROSS EXPENDITURE</b>		<b>93,964,900</b>	<b>138,042,350</b>	<b>94,974,001</b>	<b>461,267,950</b>	<b>39,070,350</b>	<b>74,850,350</b>	<b>80,195,350</b>	<b>84,980,350</b>	<b>125,085,350</b>	<b>214,750,350</b>	<b>21,415,350</b>	<b>1,579,022,000</b>	

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## PROGRAM SUMMARY



### 2016 Business Plan

### Utility Finance

By Program	2015		2016		
(\$,000's)	Estimated Actuals	Restated Budget	Base Budget	Program Change	Proposed Budget
<b>Expense Programs</b>	\$	\$	\$	\$	\$
<b>Operating:</b>					
1 Customer Services	1,987	2,260	2,236	15	2,251
2 Billing and Analysis	3,013	3,092	3,165	142	3,307
3 Headquarters Shared Cost	295	295	299	3	302
<b>Operating Subtotal</b>	5,295	5,647	5,700	160	5,860
<b>Tangible Capital Assets:</b>					
4 Replacement	463	463	393	-	393
<b>Tangible Capital Assets Subtotal</b>	463	463	393	-	393
<b>Total Program Expenses</b>	<b>5,758</b>	<b>6,110</b>	<b>6,093</b>	<b>160</b>	<b>6,253</b>
<b>Revenue Programs</b>					
Fees and Charges	(1,094)	(1,068)	(1,068)	(42)	(1,110)
<b>Total Revenue Programs</b>	<b>(1,094)</b>	<b>(1,068)</b>	<b>(1,068)</b>	<b>(42)</b>	<b>(1,110)</b>
<b>Net Program Expenses</b>	<b>4,664</b>	<b>5,042</b>	<b>5,025</b>	<b>118</b>	<b>5,143</b>

Summary of Increase (Decrease)

	(\$17)	
→	-0.34%	→
		\$101
		2.00%

### Summary of Base Budget Changes

	\$	Comments
Salaries & Benefits	65	Economic increases
Operating Expenses	49	Inflationary increases
Operating Expenses	4	Headquarters shared cost
Major Repairs & Renovations	(65)	Reduced requirement
Tangible Capital Assets - Replacement	(70)	Reduced requirement
	(17)	



## EXPLANATION OF PROGRAM CHANGES



### 2016 Program Changes

### Utility Finance

\$(000's)

#### Customer Services

◆ New position: 1 Customer Services Representative, effective July 1, 2016, to assist in addressing customer issues and reducing call wait time. (Annualized cost of \$80k)	40
◆ Decrease in telephone costs reflecting actual costs.	(25)
	<u>15</u>

#### Billing and Analysis

◆ Increase in postage reflecting actual requirements.	182
◆ Decrease in equipment maintenance costs to reflect actual experience.	(8)
◆ Decrease in vehicle operations costs to reflect actual experience.	(19)
◆ Decrease in consulting services to reflect actual costs.	(13)
	<u>142</u>

#### Headquarters Shared Cost

◆ Utility Finance's share of costs related to the operation and maintenance of Regional Headquarters.	3
	<u>3</u>

#### Revenues

◆ Increase in revenue from occupancy charges, reflecting actual experience.	(42)
	<u>(42)</u>
	<u><u>118</u></u>

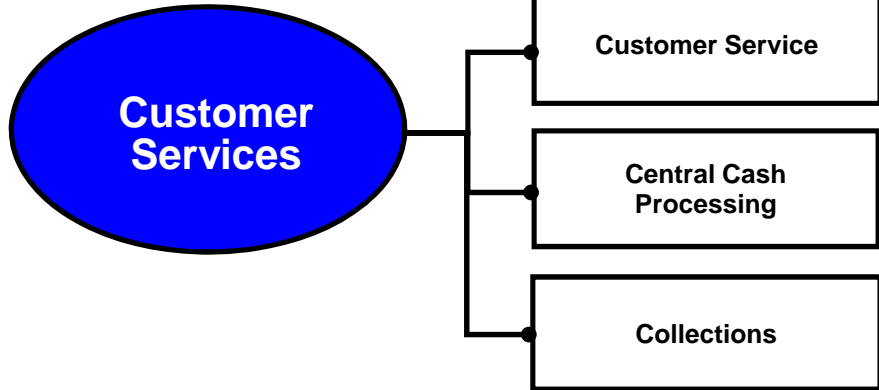


2016 Program Detail

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:**

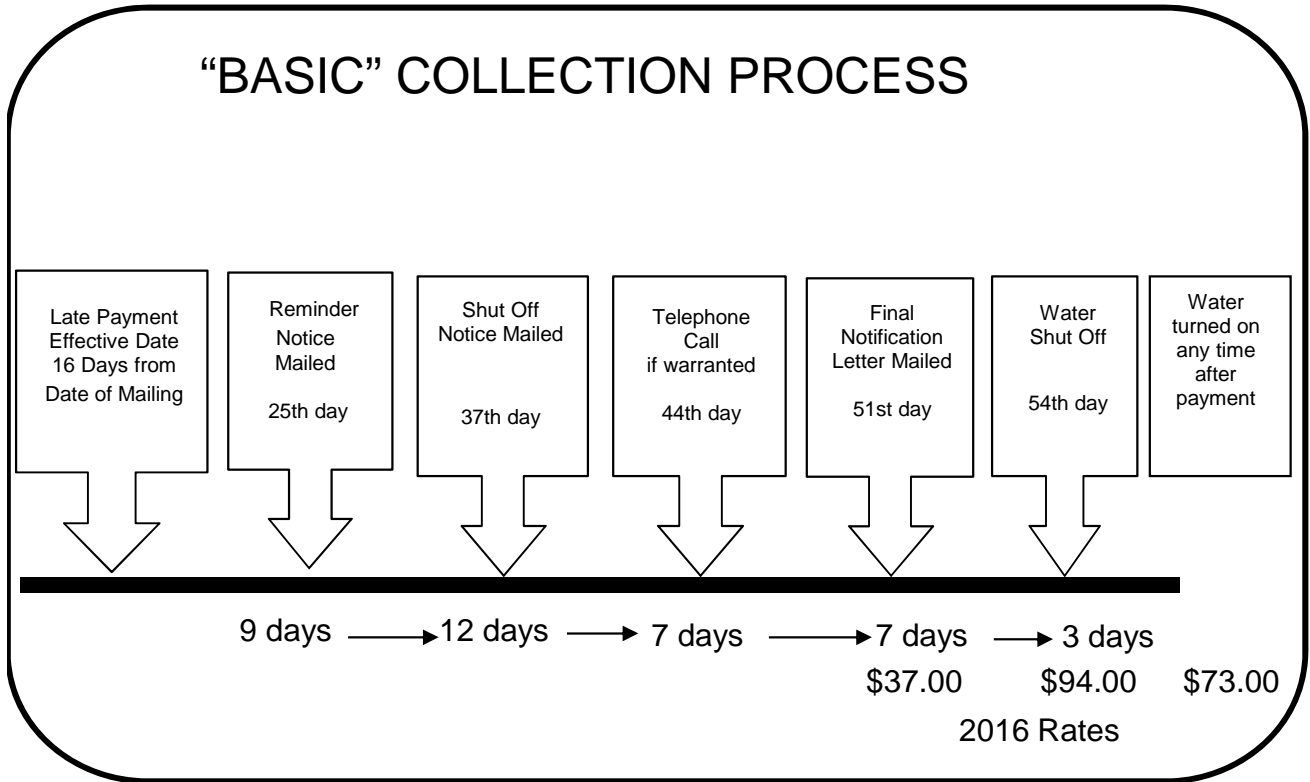
- ◆ **Customer Service** - Respond to water/sanitary sewer customer inquiries (telephone; written - letter, fax or e-mail; or in person).
- ◆ Provide effective customer service to over 170,000 water/sanitary sewer customers, respond to over 120,000 telephone inquiries, over 4,300 e-mails and over 4,200 customer inquiries made in person. Review and act on over 8,600 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 \$190 million annually in water/sanitary sewer revenues (keeping overall write-offs very low at 0.05% of revenues).
- ◆ Send collection notices, place collection calls, negotiate and monitor 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 collection 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 (housing, childcare, police, homes for the aged, landfill, and other miscellaneous services and revenues).
- ◆ Provide front counter cashier services for payment of all Regional services consisting of water and sanitary sewer and other Regional services. Sell transit fare media to approximately 1,500 customers annually.
- ◆ Receive, deposit and record approximately 760,000 water/sanitary sewer payments:
  - a) Counter (in person) - 9,600 payments
  - b) Drop Boxes - 6,900 payments
  - c) Mail - 27,900 payments
  - d) Automated Banking - 714,000 payments
  - e) Other - 1,800 payments



**2016 Program Detail**

**Utility Finance**

**Description of Program Activities Continued:**



**Description of Program Resources:**

- ◆ 2016 Full Time Staff = 21.25      New position: 1 Customer Services Representative
- 2015 Full Time Staff = 20.25      (Restated)

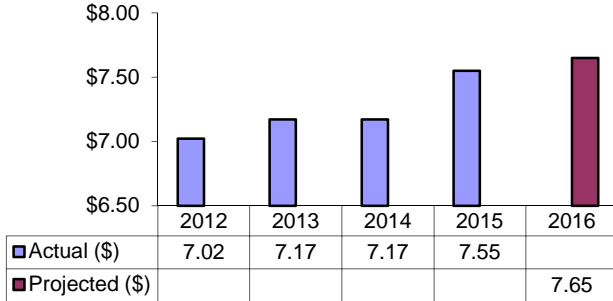


**2016 Program Detail**

**Utility Finance**

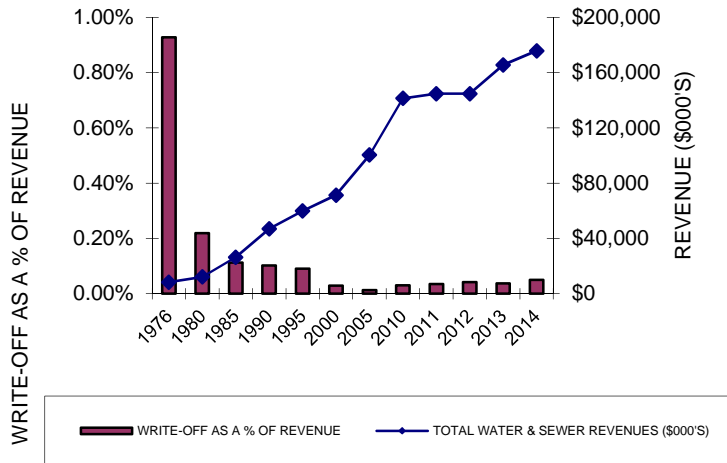
**EFFICIENCY**

**Cost per Incoming Queue Call per Customer Services Call Centre Rep**



Customer Service reps handle in excess of 127,000 in-bound calls as well as making collection calls and performing other customer inquiry and collection activities.

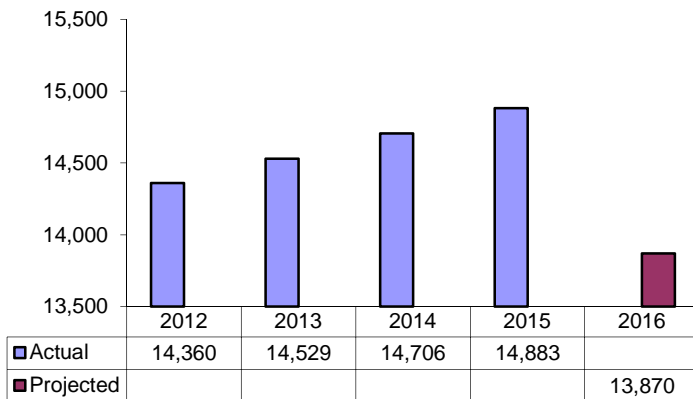
**Total Revenues and Write-offs as a Percentage of Total Revenue**



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 0.05% of revenues and is expected to remain at this level.

**EFFECTIVENESS**

**Accounts/Customer Service Staff**



To address the increasing call volume and to reduce the number of abandoned calls, an increase to the number of customer service staff has been proposed, reducing the ratio of accounts per staff member.

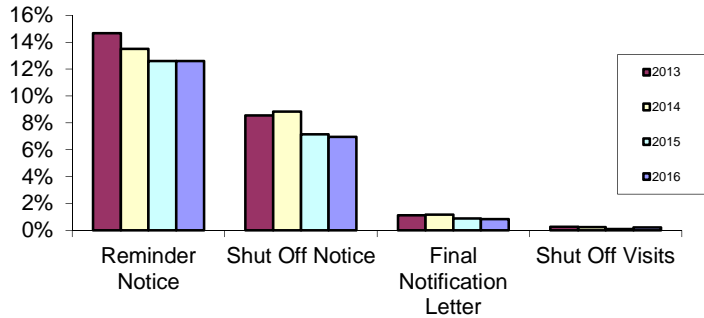


**2016 Program Detail**

**Utility Finance**

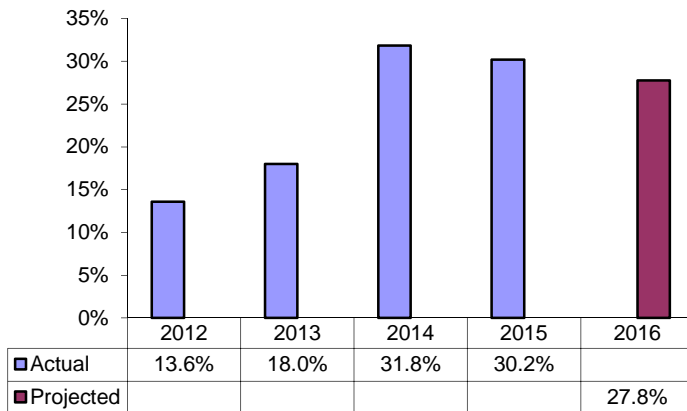
**EFFECTIVENESS CONTINUED**

Collection Action taken as a Percentage of Total Regular Bills Issued



**Collection Activities**

Collection activity is expected to remain about the same as prior years, with only an estimated 1% increase in the number of accounts.

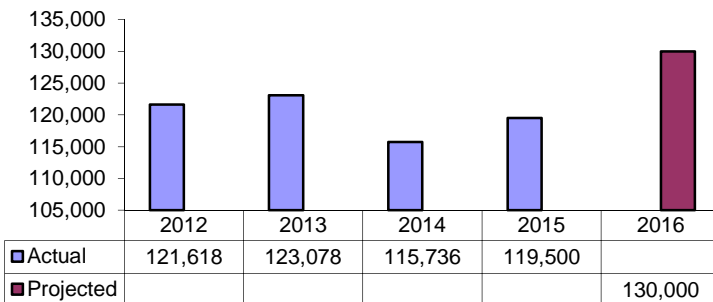


**Abandoned Call Rate**

Call wait times and the abandoned call rate were high in 2014 as a result of labour disruption. Since then, higher call volumes, along with the complexity of queries and the growth in the number of customers, have resulted in call wait times and the abandoned call remaining high.

**COMMUNITY IMPACT**

**Telephone Queue Line Calls Answered by Customer Services**



The customer inquiries have become more complex and take longer to answer in a satisfactory manner.

**PROGRAM 1  
CUSTOMER SERVICES**



**2016 Program Detail**

**Utility Finance**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	1,733	1,828	1,868	40	1,908
Personnel Related	16	12	12	-	12
Communications	147	190	190	(25)	165
Supplies	20	34	34	-	34
Materials & Services	7	12	12	-	12
Equipment Maintenance & Repairs	7	9	9	-	9
Vehicle Operations	4	7	7	-	7
Professional Services	20	50	50	-	50
Financial Expenses	31	30	31	-	31
Minor Assets & Equipment	2	3	3	-	3
Major Repairs & Renovations	-	85	20	-	20
<b>Gross Operating Expenses</b>	<b>1,987</b>	<b>2,260</b>	<b>2,236</b>	<b>15</b>	<b>2,251</b>

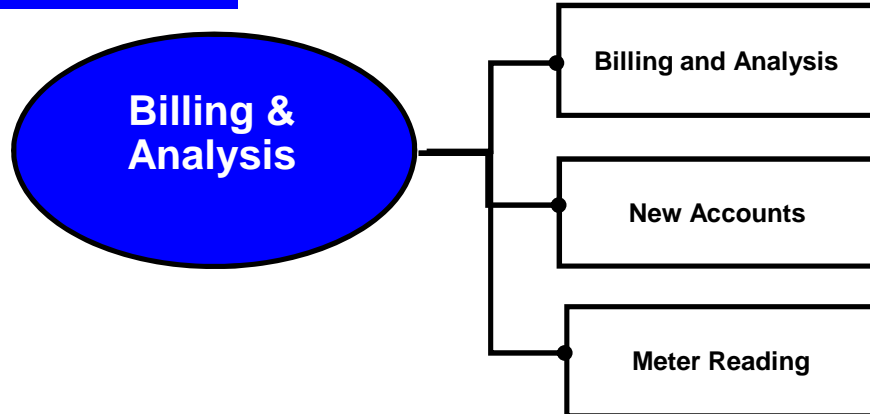


2016 Program Detail

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:

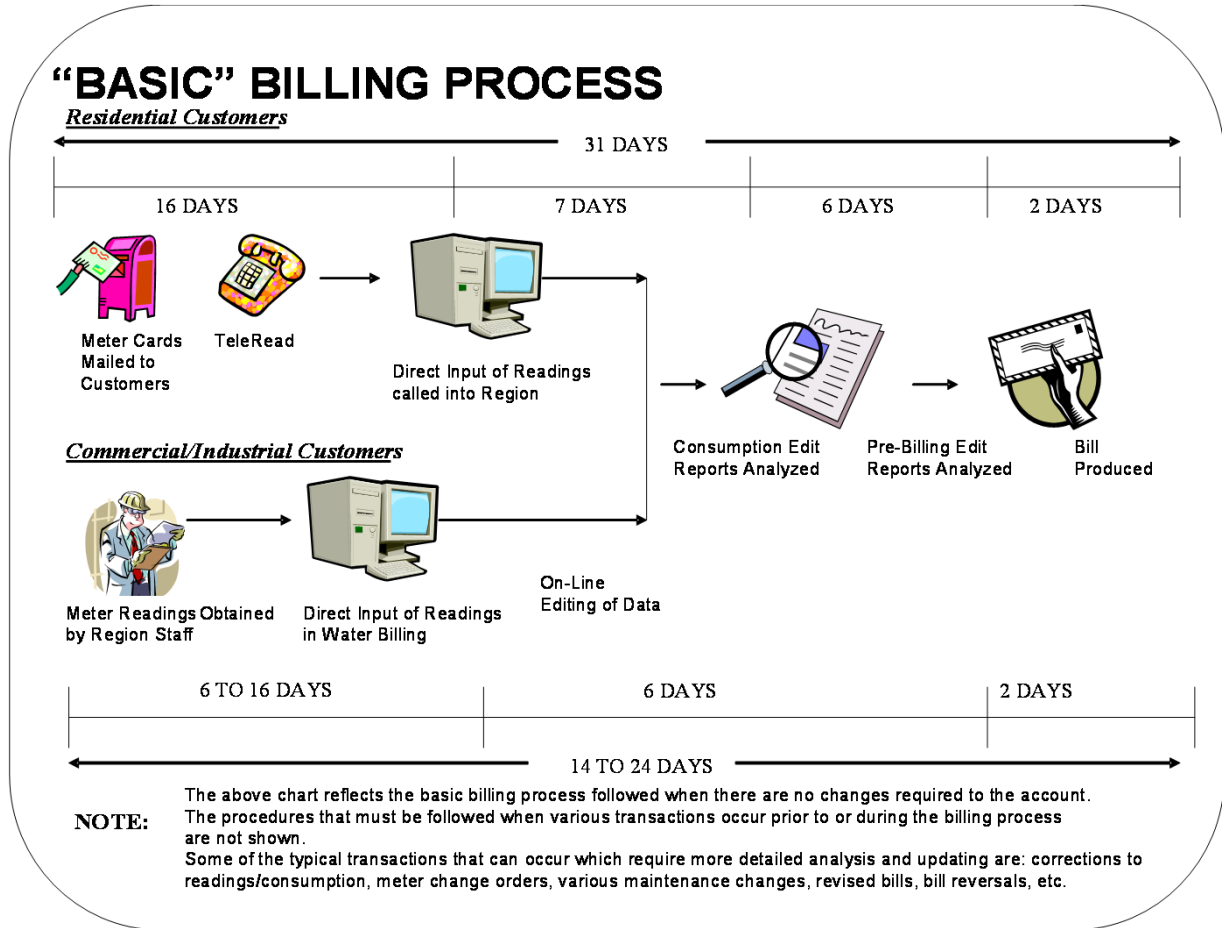
- ◆ **Billing & Analysis** - Control the production and issuance of water/sewer bills and manage all accounting activity and revenue forecasting and reporting requirements.
- ◆ Over 688,000 water/sewer bills (approximately \$190 million in revenue) issued annually for over 170,000 water and sewer customers (including approximately 165,200 residential customers and over 4,800 industrial, commercial and institutional (ICI) customers).
- ◆ **Meter Reading** - responsible for obtaining 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
  - a) Customer Meter Card Program - 3 mailed cards per year (over 490,000 readings). 91% of all returned customer readings submitted through the TeleRead program (9% mailed backed).
  - b) Region Meter Reads - 1 time per year/customer (over 165,000 readings).
  - c) Customer Site Investigations - Assist customers in resolving high consumption issues (around 5,000 site investigations annually).
- ◆ ICI Readings - bi-monthly meter readings obtained by Regional meter readers (over 29,000 reads annually).
- ◆ Final Readings - approximately 13,000 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 13,000 readings annually for 3,265 customers).
- ◆ **New Accounts** - Control and set up of all new customer accounts (over 2,000 new accounts set up in 2015).



**2016 Program Detail**

**Utility Finance**

**Description of Program Activities Continued:**



**Description of Program Resources:**

- ◆ 2016 Full Time Staff = 19.25
- 2015 Full Time Staff = 19.25 (Restated)

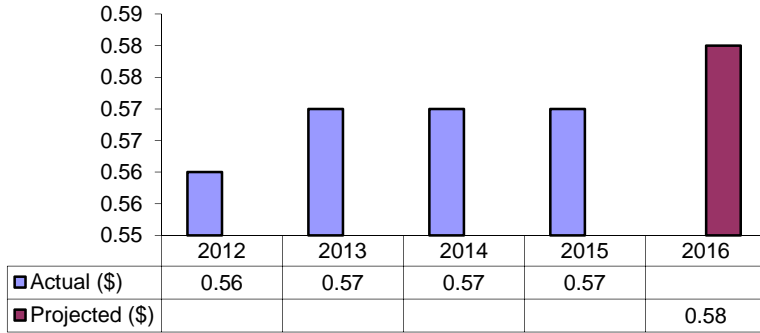




**2016 Program Detail**

**Utility Finance**

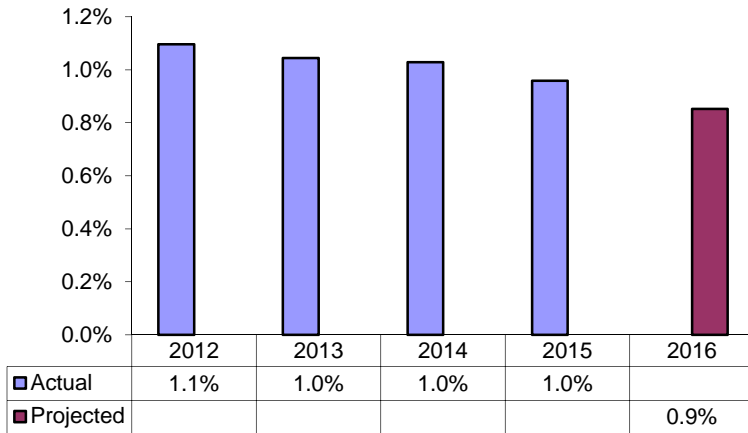
**EFFICIENCY**



**Staff Cost per Bill**

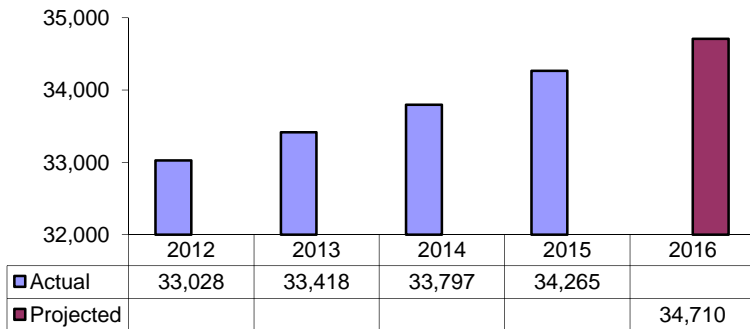
The staff cost per bill is expected to show a marginal increase in 2016.

**EFFECTIVENESS**



**Percentage of Accounts With 4 or More Consecutive Estimates**

Due to customer contacts, meter reader visits to customer properties, and the addition of remote reading capabilities, staff have been able to maintain the level of accounts with 4 or more consecutive estimates despite the increase in the number of accounts. Receiving actual reads results in more accurate bills and highlights consumption problems faster.



**Billing Staff/Accounts Ratio**

Improvements in business processes provided the ability to service a greater number of accounts per staff member. The number of accounts handled by each staff member is expected to increase yearly due to customer growth.

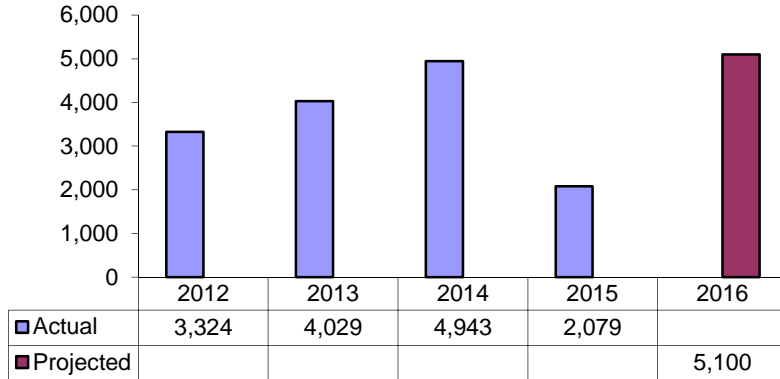


**2016 Program Detail**

**Utility Finance**

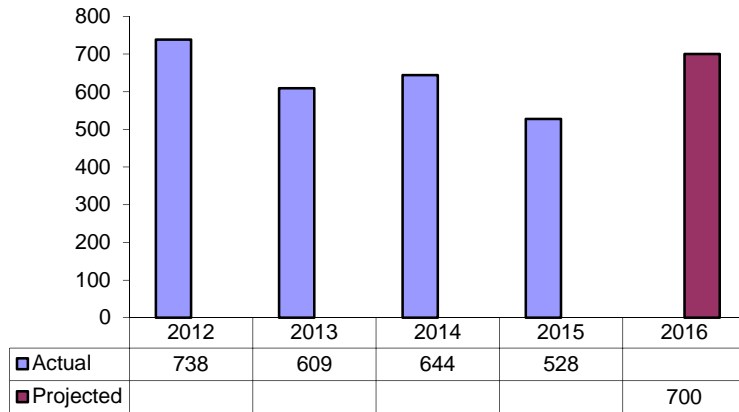
**COMMUNITY IMPACT**

**General Meter Reading Site Visits**



General meter reading site visits decreased in 2015 due to staff turnover. They are expected to increase over the next few years.

**Scheduled Customer Meter Reading Appointments**



The number of scheduled meter reading appointments to assist customers in locating plumbing problems decreased in 2015 due to staff turnover. The number of visits is expected to increase to normal levels over the next few years.

**PROGRAM 2  
BILLING AND ANALYSIS**



**2016 Program Detail**

**Utility Finance**

Detailed Cost of Program: (\$,000's)	2015		2016		
	Estimated Actuals	Restated Budget	Base Budget	Program Change	Proposed Budget
<b>Operating Expenses</b>					
Personnel Expenses	1,635	1,761	1,785	-	1,785
Personnel Related	8	13	13	-	13
Communications	1,012	843	887	182	1,069
Supplies	135	135	135	-	135
Materials & Services	6	15	15	-	15
Equipment Maintenance & Repairs	2	17	17	(8)	9
Vehicle Operations	17	39	39	(19)	20
Professional Services	25	73	73	(13)	60
Contracted Services	158	160	165	-	165
Financial Expenses	2	2	2	-	2
Minor Assets & Equipment	1	2	2	-	2
Major Repairs & Renovations	-	20	20	-	20
Contribution to Reserve & Reserve Funds	12	12	12	-	12
<b>Gross Operating Expenses</b>	<b>3,013</b>	<b>3,092</b>	<b>3,165</b>	<b>142</b>	<b>3,307</b>

**PROGRAM 3  
HEADQUARTERS SHARED COST**



**2016 Program Detail**

**Utility Finance**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</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	919	1,021	1,036	5	1,041
Communications	441	460	460	40	500
Supplies	119	139	139	-	139
Utilities	1,267	1,161	1,276	(13)	1,263
Computer Maintenance & Operations	16	11	11	-	11
Materials & Services	21	30	30	(3)	27
Buildings & Grounds Operations	931	1,010	1,010	13	1,023
Equipment Maintenance & Repairs	14	12	12	-	12
Professional Services	35	55	-	20	20
Contracted Services	722	730	746	(26)	720
Financial Expenses	166	166	169	-	169
Major Repairs & Renovations	195	293	-	100	100
Contribution to Reserve & Reserve Funds	748	748	748	(748)	-
Call Centre Operations	435	497	501	-	501
Front Counter Operations	298	327	322	-	322
<b>Operating Expenses Subtotal</b>	<b>6,327</b>	<b>6,660</b>	<b>6,460</b>	<b>(612)</b>	<b>5,848</b>
<b>Inter-Departmental Transfers &amp; Recoveries</b>					
Facilities Management & Shipping/Receiving Charge	375	375	380	(8)	372
<b>Inter-Departmental Transfers &amp; Recoveries Subtotal</b>	<b>375</b>	<b>375</b>	<b>380</b>	<b>(8)</b>	<b>372</b>
<b>Gross Operating Expenses</b>	<b>6,702</b>	<b>7,035</b>	<b>6,840</b>	<b>(620)</b>	<b>6,220</b>
<b>Tangible Capital Assets</b>					
Replacement	145	145	530	760	1,290
<b>Total Tangible Capital Assets</b>	<b>145</b>	<b>145</b>	<b>530</b>	<b>760</b>	<b>1,290</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**



**2016 Program Detail**

**Utility Finance**

<b>Detailed Cost of Program:</b>	<b>2015</b>		<b>2016</b>		
(\$,000's)	<b>Estimated Actuals</b>	<b>Approved Budget</b>	<b>Base Budget</b>	<b>Program Change</b>	<b>Proposed Budget</b>
<b>Revenues</b>					
Rents	-	-	-	(6)	(6)
<b>Total Revenues</b>	-	-	-	(6)	(6)
<b>Net Program Expenses</b>	<b>11,441</b>	<b>11,774</b>	<b>11,964</b>	<b>134</b>	<b>12,098</b>
<b>Department's Share of Net Program Expenses</b>	<b>295</b>	<b>295</b>	<b>299</b>	<b>3</b>	<b>302</b>

**PROGRAM 4  
TANGIBLE CAPITAL ASSETS - REPLACEMENT**



**2016 Program Detail**

**Utility Finance**

Description	Qty	Unit Cost	Gross Cost	Reserve Contribution	Total
		\$			\$
<b><u>Customer Service - Program 1</u></b>					
1 Desktop	7	700	4,900	0	4,900
2 Cash Processing Equipment	1	25,000	25,000	0	25,000
3 GPS equipment	1	1,000	1,000	0	1,000
			30,900	0	30,900
<b><u>Billing and Analysis - Program 2</u></b>					
4 Desktop	6	700	4,200	0	4,200
5 Laptop	1	2,100	2,100	0	2,100
6 Meter Reader Vehicles	3	30,000	90,000	63,000	27,000
7 Customer Information/Billing System Software	1	325,000	325,000	0	325,000
8 GPS equipment	4	1,000	4,000	0	4,000
			425,300	63,000	362,300
					<b>393,200</b>

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**REGIONAL CORPORATE COSTS**  
**FOR WATER AND SEWER**

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 <b><u>REGIONAL CORPORATE COSTS FOR SEWER</u></b>	
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## PROGRAM SUMMARY



### 2016 Business Plan

### Regional Corporate Costs for Water

By Program	2015		2016		
(\$,000's)	Estimated Actuals	Restated Budget	Base Budget	Program Change	Proposed Budget
<u>Expense Programs</u>	\$	\$	\$	\$	\$
Advertising	14	21	21	-	21
Audit Fees	23	25	25	-	25
Contribution to Reserve Funds	561	561	589	-	589
Contribution to Capital Fund	526	526	564	-	564
Debt Issuance Expense	13	24	24	-	24
Insurance	400	400	408	-	408
Interest Expense	159	176	176	-	176
Bad Debt Expense	30	27	34	-	34
Allocation of Admin Charges	3,992	3,992	4,024	-	4,024
<b>Net Program Expenses</b>	<b>5,718</b>	<b>5,752</b>	<b>5,865</b>	<b>-</b>	<b>5,865</b>

#### Summary of Increase (Decrease)

	<b>\$113</b>	
	<b>1.96%</b>	
		<b>\$113</b>
		<b>1.96%</b>

#### Summary of Base Budget Changes

	\$	Comments
Allocation of Admin Charges	32	Economic Increase
Other Services	81	Inflationary Increases
	<b>113</b>	



## PROGRAM SUMMARY



### 2016 Business Plan

### Regional Corporate Costs for Sewer

By Program	2015		2016		
(\$,000's)	Estimated Actuals	Restated Budget	Base Budget	Program Change	Proposed Budget
<u>Expense Programs</u>	\$	\$	\$	\$	\$
Advertising	14	21	21	-	21
Audit Fees	21	22	22	-	22
Contribution to Reserve Funds	561	561	589	-	589
Contribution to Capital Fund	591	591	618	-	618
Debt Issuance Expense	13	25	25	-	25
Insurance	522	523	533	-	533
Interest Expense	96	109	109	-	109
Bad Debt Expense	42	39	46	-	46
Allocation of Admin Charges	3,433	3,432	3,466	-	3,466
<b>Net Program Expenses</b>	<b>5,293</b>	<b>5,323</b>	<b>5,429</b>	<b>-</b>	<b>5,429</b>

Summary of Increase (Decrease)

	<b>\$106</b>	
	<b>1.99%</b>	
		<b>\$106</b>
		<b>1.99%</b>

#### Summary of Base Budget Changes

	\$	Comments
Allocation of Admin Charges	34	Economic Increase
Other Services	72	Inflationary Increases
	<b>106</b>	