



Toronto 2016 BUDGET

CAPITAL BUDGET NOTES



Toronto Water

2016 – 2025 CAPITAL BUDGET AND PLAN OVERVIEW

Toronto Water is responsible for water treatment and supply; wastewater collection and treatment; and stormwater management across the City. It services 3.4 million residents and businesses in Toronto and portions of York and Peel Region.

Toronto Water has stewardship of an inventory of capital assets valued at \$28.363 billion. Toronto Water maintains two categories of capital assets, linear infrastructure, such as distribution (5,524 km) and transmission (550 km) watermains, sanitary (3,716 km), combined (1,411 km) and storm (4,962 km) sewers; and facilities/plant assets such as water filtration (4) and waste water treatment plants (4), water (18) and wastewater pumping stations (84), reservoirs, storage and detention tanks.

State of Good Repair (SOGR) projects remain a priority given the significant backlog in infrastructure renewal, with considerable funding also included in the 2016-2025 Recommended Capital Budget and Plan for investments in Basement Flooding Protection and Wet Weather Flow Master Plan projects.

Highlights

Overview & Recommendations

I: 10-Year Rec'd Capital Plan	6
II: 2016 Rec'd Capital Budget	21
III: Issues for Discussion	26

Appendices:

1. 2015 Performance	33
2. 10-Year Recommended Capital Plan Summary	35
3. 2016 Rec'd Capital Budget; 2017-2025 Rec'd Capital Plan	37
4. 2016 Recommended Cash Flow & Future Year Commitments	38
5. 2016 Recommended Capital Projects with Financing Detail	39
6. 2016 Reserve / Reserve Fund Review	40

Contacts

Program:

Lou Di Gironimo

General Manager

Tel: (416) 392-8200

Email: ldigiro@toronto.ca

Corporate:

Stephen Conforti

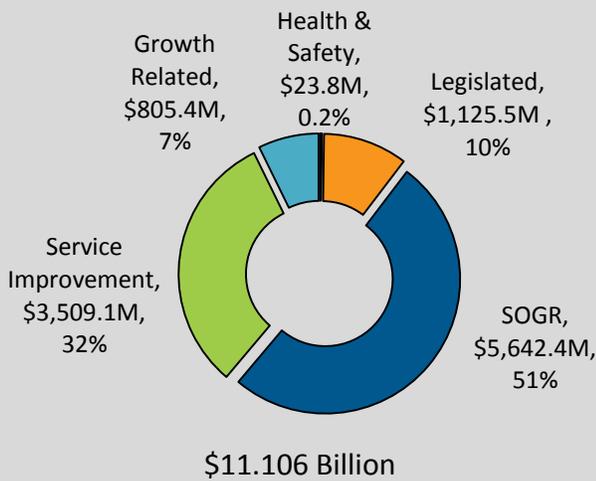
Manager, Financial Planning

Tel: (416) 397-0958

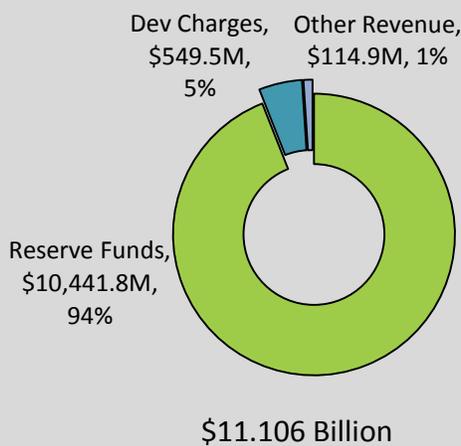
E-Mail: sconfor@toronto.ca

Capital Spending and Financing

2016-2025 Capital Budget and Plan by Expenditures Category



2016-2025 Capital Budget and Plan by Funding Source (\$Ms)



Where does the money go?

The 2016–2025 Recommended Capital Budget and Plan totalling \$11.106 billion provides funding for:

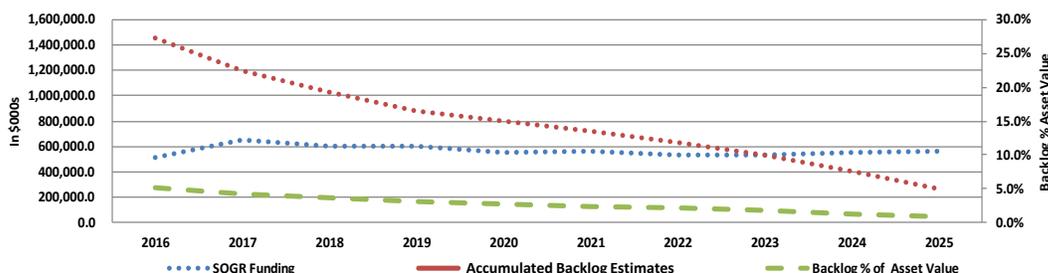
- Approximately \$6.787 billion or 61% of total funding for on-going state of good repair projects (including health and safety) for linear infrastructure and treatment facilities that are the primary focus of the 10-Year Recommended Capital Plan.
- The remaining funding of \$4.319 billion or 39% of total funding is for Service Improvement and Growth Related projects. The most significant undertakings are the Basement Flooding Protection Program to reduce the risk of future flooding from extreme storm events (\$1.638 billion) and Wet Weather Flow Master Plan to improve water quality and city's environments (\$1.139 billion).

Where does the money come from?

- The 10-Year Recommended Capital Plan is funded primarily from the Program's capital reserves, which account for approximately 94% of financing sources or \$10.442 billion.
 - Over the 10-year planning horizon, Toronto Water continues to be 100% self-sustaining requiring no debenture financing and having no impact on the municipal property tax levy.
- Other sources of funding, such as development charges for growth related projects and capital cost sharing with York Region represent the remaining 6% or \$664.4 million of total capital financing.

State of Good Repair Backlog

The 10-Year Recommended Capital Plan includes cash flow funding of \$5.638 billion for State of Good Repair projects to address the backlog. The SOGR backlog is \$1.623 billion and, as a % of asset replacement value, will decrease from 5.1% in 2016 to 0.8% in 2025, virtually eliminating the Program's backlog.



Key Issues & Priority Actions

Aging Infrastructure – Aging infrastructure that has an accumulated state of good repair backlog estimated at \$1.623 billion that, particularly for linear infrastructure, can result in service interruption.

- ✓ The 10-Year Capital Plan funding of \$5.638 billion for SOGR will reduce accumulated backlog to \$261.328 million by 2025.

Strict Regulatory Control and Oversight – The water and wastewater industry continues to experience increased legislative and regulatory reform.

- ✓ The 10-Year Capital Plan includes funding of \$238.3 million for the design and construction of a new effluent disinfection system at the Ashbridges Bay Water Treatment Plant to meet the most recent federal regulations.

Stormwater Management and Resiliency - Considerable investment is required to manage basement flooding and other stormwater issues across the City which are caused by more frequent severe storms. The stormwater management program's portion is projected to grow from 18% of the total capital program in 2015 to 40% in 2025.

- ✓ The 10-Year Capital Plan includes an added \$230.699 million for Basement Flooding and Wet Weather Flow projects that will improve the City's resiliency to extreme weather events.

Long-term Financial Sustainability - The 10-Year Capital Plan relies primarily on successive water rate increases of 8% in 2016, 5% in years 2017 and 2018 and 3% thereafter.

- ✓ In addition to recommended water rate increases, a report entitled "Funding Options for Paying the Toronto Water Capital Program" will be presented for consideration with the 2016 Recommended Operating Budget and 2016-2025 Recommended Capital Budget and Plan concurrently to support Toronto Water's financial sustainability for stormwater management projects.

2016 Capital Budget Highlights

The 2016 Recommended Capital Budget for Toronto Water of \$800.283 million, excluding carry forward funding, will:

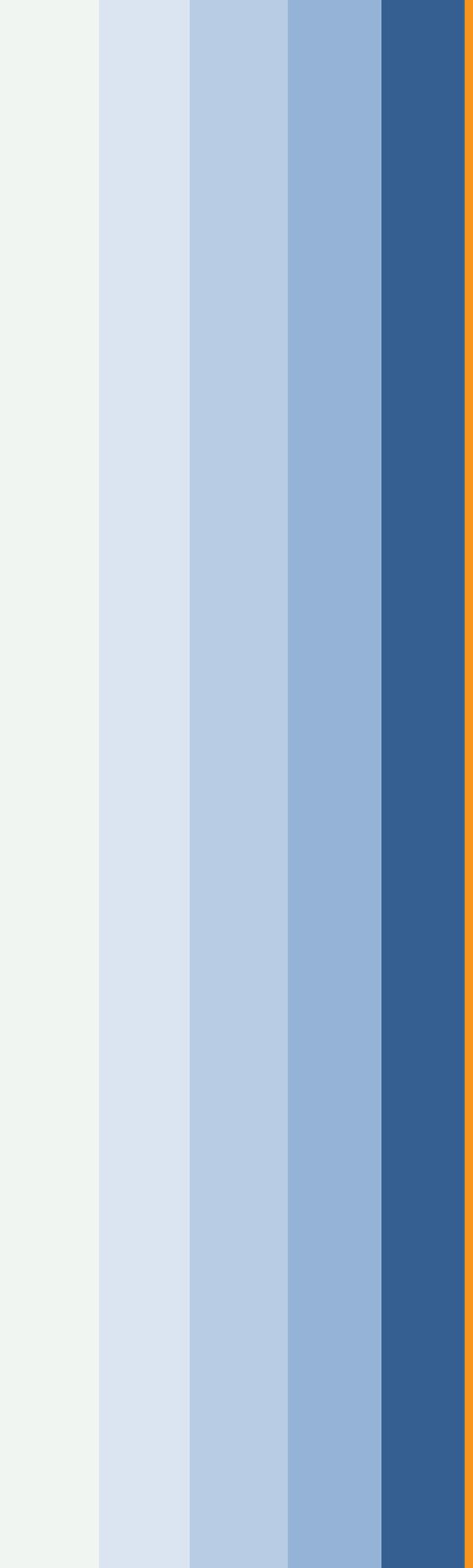
- Continue state of good repair projects to address infrastructure renewal such as Watermain Replacement and Rehabilitation (\$115.818 million), Sewer System Replacement and Rehabilitation (\$75.442 million) and Trunk Sewer and Pumping Station projects (\$34.185 million).
- Continue Basement Flooding Protection projects (\$67.754 million), implementation of the Wet Weather Flow Master Plan (\$32.374 million), and Erosion Control projects (\$10.364 million).
- Continue to provide funding for the TRCA erosion control projects including critical erosion sites (\$11.171 million).



Recommendations

The City Manager and Chief Financial Officer recommend that:

1. City Council approve the 2016 Recommended Capital Budget for Toronto Water with a total project cost of \$738.789 million, and 2016 cash flow of \$849.081 million and future year commitments of \$2.921 billion comprised of the following:
 - a) New Cash Flow Funds for:
 - i. 316 new / change in scope sub-projects with a 2016 total project cost of \$738.789 million that requires a cash flow reduction of \$48.483 million in 2016 and future year cash flow commitments of \$117.947 million for 2017; \$131.350 million for 2018; \$148.892 million for 2019; \$60.550 million for 2020; \$59.582 million for 2021; \$91.862 million for 2022; \$52.813 million for 2023; \$68.646 million for 2024; and \$55.630 million for 2025;
 - ii. 250 previously approved sub-projects with a 2016 cash flow of \$848.766 million; and future year cash flow commitments of \$755.157 million for 2017; \$468.080 million for 2018; \$297.114 million for 2019; \$221.302 million for 2020; \$185.393 million for 2021; \$86.507 million for 2022; \$80.520 million for 2023; and \$39.930 million for 2024;
 - b) 2015 approved cash flow for 44 previously approved sub-projects with carry forward funding from 2015 into 2016 totalling \$48.798 million.
2. City Council approve the 2017 - 2025 Recommended Capital Plan for Toronto Water totalling \$7.385 billion in project estimates, comprised of \$217.133 million in 2017; \$487.073 million for 2018; \$762.044 million for 2019; \$882.307 million for 2020; \$944.915 million for 2021; \$928.595 million for 2022; \$981.637 million for 2023; \$1.021 billion for 2024; and \$1.160 billion in 2025.
3. City Council consider the operating costs/ (savings) of \$0.333 million net in 2016; (\$0.021 million) net in 2017; \$1.0 million net in 2018; \$3.115 million net in 2019; \$2.504 million net in 2020; \$0.338 million in 2021; and \$0.228 million in 2022, resulting from the approval of the 2016 Recommended Capital Budget for inclusion in the 2016 and future year operating budgets.
4. City Council approve 4 new temporary capital positions for the delivery of 2016 capital projects and that the duration for each temporary position not exceed the life and funding of its respective projects / sub-projects.
5. City Council request the Deputy City Manager and Chief Financial Officer in consultation with the General Manager, Toronto Water to advance the 2017 cashflow for the Basement Flooding projects into 2016, should it become evident that greater than planned volume of work can be completed, and that the 2017– 2025 budgeted cash flows be adjusted accordingly as part of the 2017 Budget process.
6. This report be considered concurrently with the 2016 Water and Wastewater Rate Report from the Deputy City Manager and Chief Financial Officer and General Manager for Toronto Water.



Part I:

10-Year Capital Plan

10 Year Capital Plan

Table 1a
2016 Recommended Budget, 2017-2020 Recommended Capital Plan

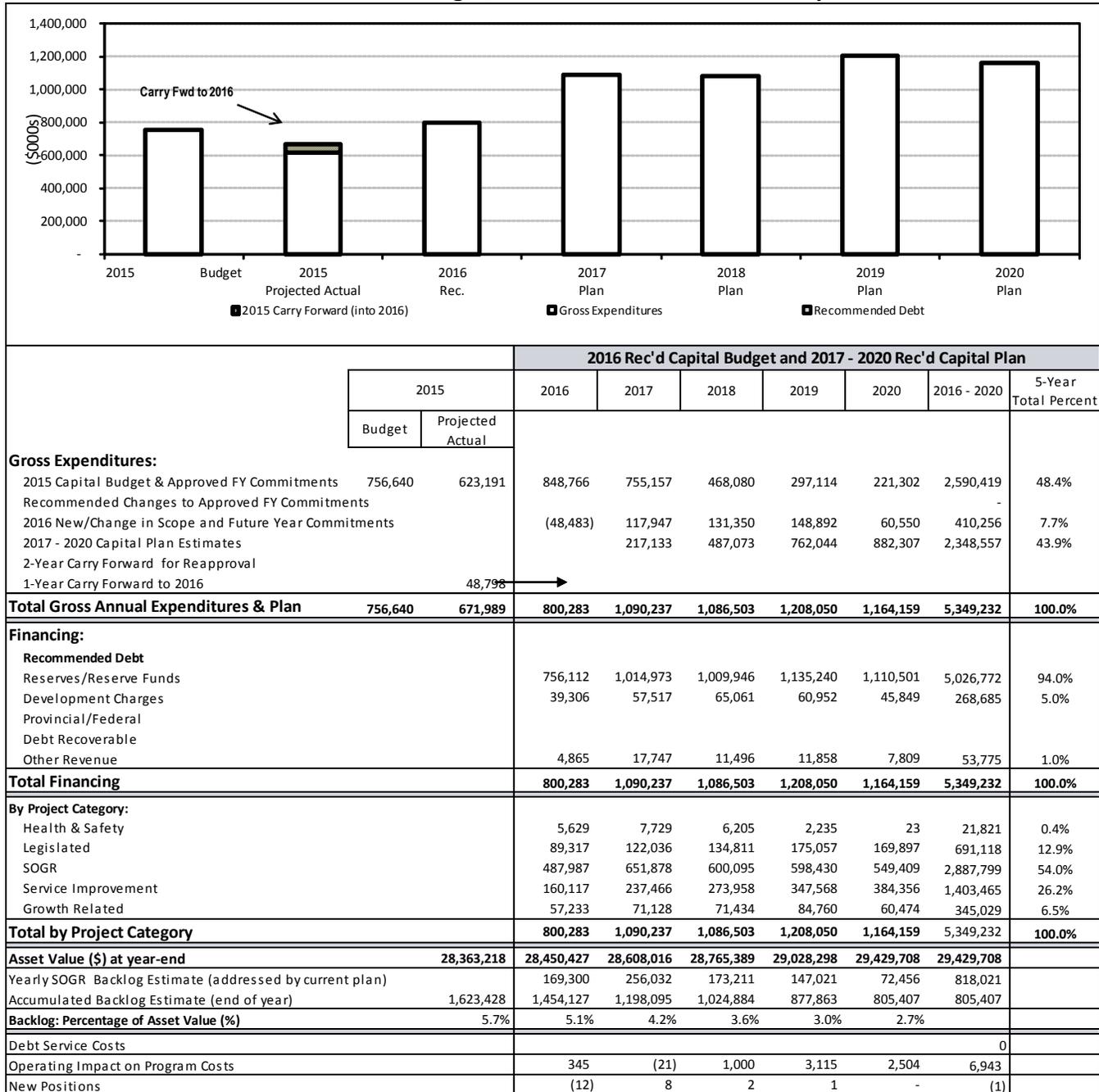
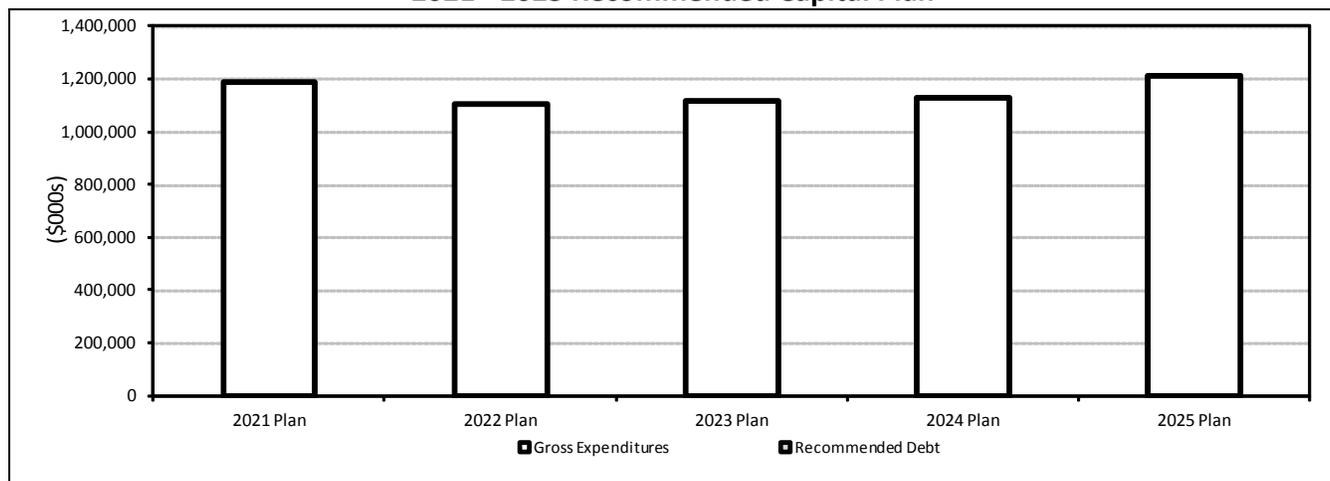


Table 1b
2021 - 2025 Recommended Capital Plan



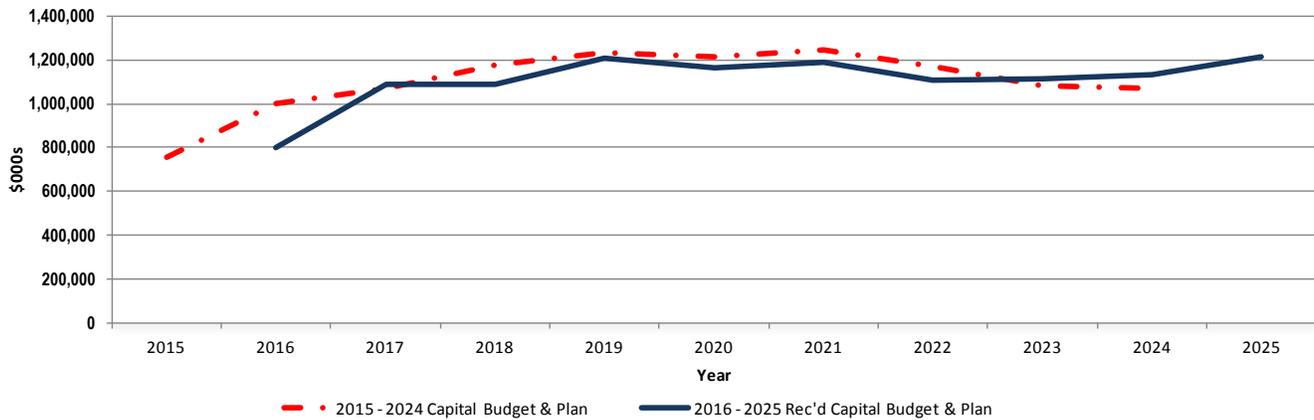
	2021 - 2025 Rec'd Capital Plan							10-Year Total Percent
	2021	2022	2023	2024	2025	2016 - 2025		
Gross Expenditures:								
2015 Capital Budget & Approved FY Commitments	185,393	86,507	80,520	39,930		2,982,769	26.9%	
Recommended Changes to Approved FY Commitments						-		
2016 New/Change in Scope and Future Year Commitments	59,582	91,862	52,813	68,646	55,630	738,789	6.7%	
2021 - 2025 Capital Plan Estimates	944,915	928,595	981,637	1,021,259	1,159,757	7,384,720	66.5%	
Total Gross Annual Expenditures & Plan	1,189,890	1,106,964	1,114,970	1,129,835	1,215,387	11,106,278	100.0%	
Financing:								
Recommended Debt								
Reserves/Reserve Funds	1,129,405	1,047,923	1,046,507	1,054,408	1,136,815	10,441,830	94.0%	
Development Charges	53,761	51,094	55,259	59,563	61,138	549,500	5.0%	
Provincial/Federal								
Debt Recoverable								
Other Revenue	6,724	7,947	13,204	15,864	17,434	114,948	1.0%	
Total Financing	1,189,890	1,106,964	1,114,970	1,129,835	1,215,387	11,106,278	100.0%	
By Project Category:								
Health & Safety	423	400	400	400	400	23,844	0.2%	
Legislated	145,773	117,175	83,390	48,304	39,735	1,125,495	10.1%	
SOGR	561,090	536,045	536,794	551,006	564,807	5,637,541	50.8%	
Service Improvement	398,591	363,593	403,593	429,544	515,182	3,513,968	31.6%	
Growth Related	84,013	89,751	90,793	100,581	95,263	805,430	7.2%	
Total by Project Category	1,189,890	1,106,964	1,114,970	1,129,835	1,215,387	11,106,278	100.0%	
Asset Value(\$) at year-end	29,770,126	30,424,371	31,486,693	31,697,099	32,189,261	32,189,261		
Yearly SOGR Backlog Estimate (addressed by current plan)	87,986	81,241	103,555	125,067	146,231	1,362,100		
Accumulated Backlog Estimate (end of year)	717,422	636,181	532,626	407,559	261,328	261,328		
Backlog: Percentage of Asset Value (%)	2.4%	2.1%	1.7%	1.3%	0.8%			
Debt Service Costs						0		
Operating Impact on Program Costs	338	288				7,568		
New Positions	1							

Key Changes to the 2015 - 2024 Approved Capital Plan

The 2016 Recommended Capital Budget and the 2017 - 2025 Recommended Capital Plan reflects an increase of \$94.809 million in capital funding from the 2015 - 2024 Approved Capital Plan.

The table and chart below provide a breakdown of the \$94.809 million or 0.9% increase in the Capital Program on an annual basis from 2015 to 2025.

Chart 1
Changes to the 2015 -2024 Approved Capital Plan (In \$000s)



(\$000s)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	10-Year Total
2015 - 2024 Capital Budget & Plan	756,640	1,001,027	1,067,880	1,175,867	1,234,304	1,211,437	1,245,351	1,168,485	1,079,178	1,071,300		11,011,469
2016 - 2025 Rec'd Capital Budget & Plan		800,283	1,090,237	1,086,503	1,208,050	1,164,159	1,189,890	1,106,964	1,114,970	1,129,835	1,215,387	11,106,278
Change %		(20.1%)	2.1%	(7.6%)	(2.1%)	(3.9%)	(4.5%)	(5.3%)	3.3%	5.5%		0.9%
Change \$		(200,744)	22,357	(89,364)	(26,254)	(47,278)	(55,461)	(61,521)	35,792	58,535		94,809

As made evident in the chart above, the \$94.809 million increase in the Capital Program reflects the deferral of approximately \$481 million in various capital projects to the outer years of the 10-Year Capital Plan.

As reflected in Table 2 on the following page, changes to the 2015 – 2024 Approved Capital Plan, specifically the recommended \$363.938 million decrease in capital funding over the nine common years of the Capital Plans (2016 – 2024) arise from the reprioritization of Toronto Water's capital projects based on the following factors:

- Currently, there appears to be a limited capacity of the construction industry to deliver projects across the City, resulting in higher unit rates for linear structure replacement projects. In order to accommodate escalating construction prices, Toronto Water had to re-assess the priority and renewal strategy of projects.
- The continuing downward trend in water consumption over the last decade, in spite of population growth, has resulted in project deferrals in order to align the 10-Year Capital Program with available funding as calculated by the Water and Wastewater Rate Model, and to ensure positive reserve balances during major capital spending years.
- Changes have also been made based on updated schedules for coordinated and sequenced delivery of the projects requiring large capital funding, as well as new condition assessments; and

- The need to realign Toronto Water 2016 Capital Budget with historical spending rates.

A summary of project changes for the years 2016 to 2024 totalling \$363.938 million are provided in Table 2 below:

**Table 2
Summary of Project Changes (In \$000s)**

\$000s	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2016 - 2024 Total
2015 - 2024 Capital Budget & Plan	756,640	1,001,027	1,067,880	1,175,867	1,234,304	1,211,437	1,245,351	1,168,485	1,079,178	1,071,300		10,254,829
2016 - 2025 Rec'd Capital Budget & Plan		800,283	1,090,237	1,086,503	1,208,050	1,164,159	1,189,890	1,106,964	1,114,970	1,129,835	1,215,387	9,890,891
Capital Budget & Plan Changes (2016 - 2024)		(200,744)	22,357	(89,364)	(26,254)	(47,278)	(55,461)	(61,521)	35,792	58,535		(363,938)

	Total Project Cost	2016	2017	2018	2019	2020	2021	2022	2023	2024	2016 - 2024	2025	Revised Total Project Cost
Previously Approved													
Water Treatment & Supply													
<i>FJ Horgan Water Treatment Plant</i>	223,728	(8,058)	(462)	(647)	(67)	13	20	9	2	2	(9,188)	200	214,740
<i>Island Water Treatment Plant</i>		(2,538)	7,141	8,056	(3,788)	1,860	1,570	10	10		12,321		375
<i>RC Harris Water Treatment Plant</i>		(6,442)	5,708	(11,802)	(16,727)	(12,800)	(10,300)	9,450	11,000	11,000	(20,913)		12,550
<i>RL Clark Water Treatment Plant</i>		(1,210)	1,252	(620)	(3,751)	(9,940)	(20,000)	(20,000)			(54,269)		150
<i>Water Treatment Plant - Plantwide</i>		1,700	1,550	6,525	11,645	27,025	21,820	26,905	15,315	22,760	135,245		30,900
<i>Watermain Rehabilitation (Cleaning & Lining)</i>		(9,112)	(6,175)	(3,020)	(3,175)	(2,383)	(2,902)	(4,263)	(2,885)	(3,270)	(37,185)		70,243
<i>Watermain Replacement</i>		(18,154)	(1,806)	10,948	(845)	(4,993)	(8,983)	(10,991)	(11,000)	(11,000)	(56,824)		114,000
<i>Water Service Replacement</i>		22,756	14,258	12,788	5,759	7,908	7,594	7,269	4,457	4,096	86,885		34,335
<i>New Service Connections</i>		920	8,548	(12,000)	5,000	5,000	5,000	5,000	5,000	5,000	27,468		28,273
<i>Transmission Watermains</i>		(20,773)	(23,223)	(18,944)	884	(8,110)	(19,500)	(4,325)	11,500	17,620	(64,871)		17,570
<i>WT Storage and Treatment</i>		(27,616)	23,252	8,492	8,512	(119)	6,026	325	(8,375)	(8,050)	2,447		24,850
<i>Water Meter Program (AMR)</i>	232,155	(22,068)	4,465	2,000	915	545					(14,143)		
<i>Water Efficiency Program</i>													520
<i>Business & Technology Improvements</i>		(2,937)	(1,125)	(581)	1,110	5,999	1,479	270	225	290	4,730		2,714
Sub-Total Water Treatment & Supply		(93,532)	33,383	1,195	5,472	10,005	(18,176)	9,659	25,249	38,448	11,703		336,680
Wastewater Collection & Treatment and Stormwater Management													
<i>Ashbridges Bay Wastewater Treatment Plant (ABTP)</i>		(26,607)	(42,555)	(77,009)	(11,049)	22,643	17,494	7,369	(5,922)	28,479	(87,157)		126,990
<i>Highland Creek Wastewater Treatment Plant (HCTP)</i>		(24,613)	11,976	(9,314)	(1,617)	(9,285)	5,345	5,350	9,950	32,650	20,442		20,100
<i>Humber Wastewater Treatment Plant (HTP)</i>		(20,453)	6,372	6,969	(870)	(13,377)	2,671	5,475	13,074	450	311		36,425
<i>Linear Infrastructure Engineering</i>		(11,779)	5,322	7,743	8,132	(3,345)	(4,899)	400	(4,800)	6,400	3,174		71,573
<i>Sewer System Rehabilitation & Trunk Sewer & Sewage Pumping Stations</i>		23,847	22,330	2,687	5,185	(7,532)	(840)	(14,800)	(3,050)	8,050	35,877		121,236
<i>Sewer Replacement Program</i>		(18,659)	(10,788)	(5,208)	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(94,655)		45,000
<i>New Sewer Construction</i>		(4,940)	(8,050)	(7,000)	(6,500)	(13,000)	(5,000)	(5,000)	(5,000)	(5,000)	(59,490)		9,000
<i>Pumping Stations</i>		(2,249)	1,027	7,650	7,600	(2,100)	1,050	1,100	1,100	3,050	18,228		2,050
<i>Basement Flooding Relief</i>		(11,579)	(15,020)	(1,061)	3,333	2,109	370				(21,848)		180,194
<i>Wet Weather Flow Stream Restoration & Implementation Projects</i>		(10,423)	18,320	(16,015)	(26,088)	(22,895)	(39,024)	(52,820)	23,591	(41,692)	(167,046)		239,399
<i>Yard & Facility Improvements</i>		243	40	(1)	148	(501)	(4,452)	(8,254)	(8,400)	(2,300)	(23,477)		26,740
Sub-Total Wastewater Collection & Treatment and Stormwater Management		(107,212)	(11,026)	(90,559)	(31,726)	(57,283)	(37,285)	(71,180)	10,543	20,087	(375,641)		878,707
Total Previously Approved		(200,744)	22,357	(89,364)	(26,254)	(47,278)	(55,461)	(61,521)	35,792	58,535	(363,938)		1,215,387
New													
<i>N/A</i>													
Total New													
Total Changes		(200,744)	22,357	(89,364)	(26,254)	(47,278)	(55,461)	(61,521)	35,792	58,535	(363,938)		1,215,387

Significant Capital Project Changes in Toronto Water:

Cash flow funding for the following previously approved capital projects has been adjusted based on available funding, capacity and expected progress and completion of the projects, as outlined below:

Increases in Previously Approved Projects

The following Toronto Water capital projects have been allocated increased funding:

- The allocation for *Water Treatment Plant projects* has increased by \$63.196 million or 23% from \$277.049 million in capital funding for all water treatment plants during the nine common years of the 2015 – 2024 Approved Capital Plan.
- The *Water Service Replacement* project has increased funding of \$86.885 million or 34%, from \$257.629 million.
- Additional funding of \$38.877 million or 5% from \$813.711 is recommended for the *Sewer System Rehabilitation, Trunk Sewers & Sewage Pumping Station projects*.

- Funding for *New Service Connection projects* has been increased by \$27.648 million or 13% from \$205.217 million to provide the necessary servicing capacity based on projected population growth and for the installation of service connections for new homes and developments.
- The allocation for *Highland Creek Wastewater Treatment Plant (HCTP) projects* has increased by \$20.442 million or 4%, from \$553.692 million.
- *Transmission Pumping Stations project costs* has increased by \$18.228 million or 20% from \$89.886 million.
- Additional funding of \$12.321 million or 28% from \$44.560 million is necessary for the *Island Treatment Plant*.
- Increased funding totalling \$10.662 has been allocated to a number of other projects including the *Business and Technology Improvements, WT Storage and Treatment, Humber River Wastewater Treatment Plant (HTP) projects* and *Linear Infrastructure Engineering projects*.

Deferral/ Reductions in Previously Approved Capital Projects:

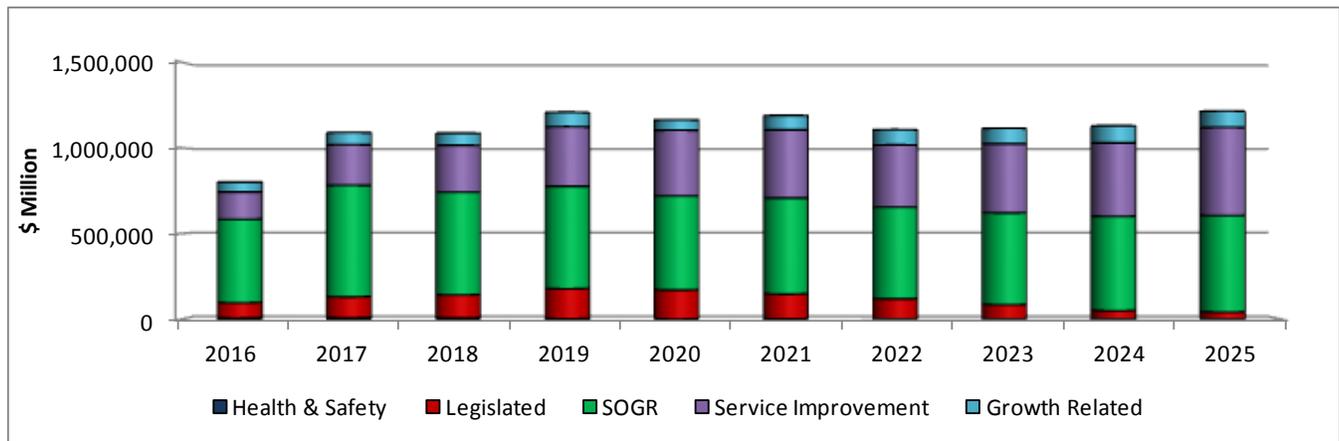
Significant reductions in capital expenditures have been made due to the escalation in unit rate prices for linear infrastructure replacement, as well as the continuing decline in water consumption which has resulted in a need to defer/delay a number of capital projects over the 10 year planning horizon as follows:

- The funding allocation for *R.C. Harris Water Treatment Plant projects* has been deferred or reduced by \$20.913 million or 20% from \$105.272 million in the realignment of program delivery as a result of the recently completed Water Quality Master Plan, in addition the delivery of the Filter Rehabilitation project has been stretched from 5 to 10 years.
- The capital program at *the Ashbridges Bay Wastewater Treatment Plant* has been revised to reflect decreased capital funding of \$87.157 million or 5% from \$1.628 billion due to:
 - Delay of *Odour Control Tanks (7-9) project* by 1 year.
 - Delay of *Digester Cleaning and Fine Bubble Aeration projects* by 2 years (carried post 2025).
- *Sewer System Replacement costs* have been decreased by \$94.655 million or 22% from \$438.015 million in anticipation of rehabilitation opportunities.
- The *Transmission Watermain program* has been reduced by \$64.871 or 26% from \$250.646 million to reflect delays in project implementation including:
 - Delay of *Victoria Park Watermain* by 2 years.
 - Delay of *Horgan (to Elsemere) Watermain project* which will be carried post 2025
- The *Wet Weather Flow Stream Restoration and Implementation projects* have been reduced by \$167.046 million or 17% from \$1.067 billion due to:
 - Delays in *Scarborough Waterfront and Etobicoke Waterfront projects* by 4 years and 1 year respectively.
 - Delay in the phased implementation of *stream restoration projects* by 2 years.
 - Delay of Phase 2 of the *Don River and Central Waterfront Combined Sewer Overflow (CSO) project* implementation by 1 year.

- *Watermain Replacement costs* have been decreased by \$56.824 million or 6% from 1.027 billion in anticipation of rehabilitation opportunities.
- The funding allocation for *R.L. Clark Water Treatment Plant* projects has been reduced by \$54.269 million or 5% from \$103.072 million in the realignment of program delivery as a result of the recently completed Water Quality Master Plan.
- The *Water Meter Program (AMR) project* has been allocated decreased funding of \$14.143 or 6% from \$232.155 million to reflect lower project implementation costs.
- The *FJ Horgan Water Treatment Plant project* funding has been updated to reflect lower implementation costs of \$9.188 million or 4% from \$223.728 million due to the realignment of program delivery as a result of the recently completed Water Quality Master Plan and cancellation of the supernatant pipe project.
- Over the 2016-2025 planning period, there are also cashflow realignments for a variety of other projects, which reflect more updated schedules for implementation and realignment of projects between different program areas resulting in a funding reduction totalling \$82.510 million.

2016 – 2025 Recommended Capital Plan

**Chart 2
2016 – 2025 Capital Plan by Project Category (In \$000s)**



As illustrated in the chart above, the 10-Year Recommended Capital Plan for Toronto Water of \$11.106 billion predominantly provides funding for State of Good Repair (SOGR) projects (including Health and Safety and Legislated projects), which represent 61% of total funding over the 10-year period. Service Improvements and Growth Related Projects represent the remaining funding allocations of 31.6% and 7.2% respectively.

- Health and Safety projects account for approximately 0.2% or \$23.844 million. Funding is allocated mostly within the first 5 years of the 10-Year Capital Plan period in order to improve the safety and upgrade electrical systems at Ashbridges Bay, Humber and North Toronto wastewater treatment plants.
- Legislated projects represent 10.1% or \$1.125 billion of total funding. These projects are required to comply with existing and emerging provincial and federal legislation. Funding for Legislative

projects is expected to increase in future years as regulations governing water supply and wastewater treatment continue to become more stringent.

- State of Good Repair projects continue at stable levels with an average annual investment of about \$564 million over the 10 year period in order to ensure the continued reduction of Toronto Water's infrastructure renewal backlog estimated at \$1.623 billion at the end of 2015.
- Service Improvement projects represent approximately 32% or \$3.514 billion of total funding in the 10-Year Capital Plan. Capital funding for these projects increases consistently over the 10 year period, from \$160.117 million in 2016 to \$515.182 million in 2025.
- Growth projects constitute about 7% or \$805.430 million of the total. Funding for anticipated growth projects such as new and enhanced watermains and service connections is consistent over the 10-Year Capital Plan period, averaging \$26.096 million per year. However, funding for planned significant standalone projects will vary from year to year based on growth requirements.

The following table provides details by project category within the 2016 – 2025 Recommended Capital Budget and Plan for Toronto Water:

Table 3
Summary of Capital Projects by Category (In \$000s)

	Total App'd Cash Flows to Date*	2016 Budget	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2016 - 2025 Total	Rec'd Total Project Cost
Total Expenditures by Category													
State of Good Repair (Including Health & Safety and Legislated Projects)													
Watermain Rehabilitation (Cleaning & Lining)		53,460	63,866	66,418	64,337	65,322	69,150	69,638	71,118	70,838	70,243	664,390	
Watermain Replacement		62,358	80,438	84,662	88,000	95,000	95,000	95,000	95,000	95,000	95,000	885,458	
Water Service Replacement		48,250	41,506	40,796	34,242	36,880	37,070	37,265	34,170	34,335	34,335	378,849	
Sewer System Rehabilitation		57,163	53,250	55,031	56,000	53,250	58,395	60,136	60,886	59,986	60,136	574,233	
Sewer Replacement Program		18,279	31,603	36,692	36,786	40,000	45,000	45,000	45,000	45,000	45,000	388,360	
Linear Infrastructure Engineering		56,031	70,362	70,995	73,755	72,514	63,127	62,148	58,281	63,635	65,023	655,871	
Transmission Watermains		14,324	21,366	6,294	2,366	2,319	5,250	5,250	5,250	5,250	5,250	72,919	
FJ Horgan Water Treatment Plant	203,289	2,420	2,781	2,600	550	1,027	785	684	202	202	200	11,451	214,740
Island Water Treatment Plant		6,414	15,794	14,135	3,837	4,435	1,955	535	385	525	375	48,390	
RC Harris Water Treatment Plant		12,878	17,517	8,903	1,273	1,850	1,200	11,150	11,500	11,500	12,550	90,321	
RL Clark Water Treatment Plant		9,630	23,464	13,275	1,624	210	150	150	150	150	150	48,953	
Trunk Sewer & Sewage Pumping Stations		34,185	29,074	32,440	32,781	25,379	25,110	24,100	35,100	32,100	35,100	305,369	
Ashbridges Bay Wastewater Treatment Plant (ABTP)		96,060	149,357	156,649	246,775	226,320	213,073	188,618	121,898	95,619	84,990	1,579,359	
Highland Creek Wastewater Treatment Plant (HCTP)		45,504	50,634	35,331	25,928	5,715	4,350	14,850	25,350	27,780	20,100	255,542	
Humber Wastewater Treatment Plant (HTP)		36,634	73,258	56,590	54,026	49,448	50,191	7,825	17,319	16,575	36,425	398,291	
Stream Restoration & Erosion Control		10,364	17,384	20,102	17,387	8,615	4,236	10,790	15,890	13,830	11,330	129,928	
Other Projects		18,979	39,989	40,198	36,055	31,045	33,244	20,481	23,085	27,385	28,735	299,196	
Sub-Total	203,289	582,933	781,643	741,111	775,722	719,329	707,286	653,620	620,584	599,710	604,942	6,786,880	214,740
Service Improvements													
Basement Flooding Relief		67,754	114,074	166,008	179,958	180,313	184,117	189,090	188,440	188,440	180,194	1,638,388	
Wet Weather Flow Implementation Projects		32,374	30,570	26,148	45,660	65,110	66,410	81,207	152,891	155,988	211,860	868,218	
TRCA SWM Funding & Land Acquisition for Source Water Protection		11,171	12,360	12,382	13,991	14,104	14,219	14,337	15,958	16,082	16,209	140,813	
Water Treatment Plant - Plantwide		1,700	1,550	6,525	11,645	27,025	21,820	26,905	15,315	22,760	30,900	166,145	
Highland Creek Wastewater Treatment Plant - Solids & Gas Handling		3,075	16,222	19,730	57,032	74,903	93,695	36,285	20,250	16,000		337,192	
Ashbridges Bay Wastewater Treatment Plant - Liquid Treatment & Handling		1,770	1,685	3,450	4,655	480	5,580	5,600	1,000	20,000	42,000	86,220	
Business & Technology Improvements		11,859	14,637	15,738	16,528	11,461	4,895	2,664	2,734	2,769	2,714	85,999	
Water Meter Program (AMR)	199,273	8,299	6,980	2,000	915	545						18,739	218,012
Other Projects		22,115	39,388	21,977	17,184	10,415	7,855	7,505	7,005	7,505	31,305	172,254	
Sub-Total	199,273	160,117	237,466	273,958	347,568	384,356	398,591	363,593	403,593	429,544	515,182	3,513,968	218,012
Growth Related													
New Service Connections		27,100	27,000	12,601	27,254	27,411	27,574	27,741	27,913	28,091	28,273	260,958	
New Sewer Construction		5,740	7,630	8,680	11,180	1,000	9,000	9,000	9,000	9,000	9,000	79,230	
Trunk Sewer & Sewage Pumping Stations		850	753		1,000	5,500	9,000	11,000	11,000	26,000	26,000	91,103	
Trunk Watermains		600	3,654	13,450	12,973	5,171	15,220	20,200	22,500	18,220	12,320	124,308	
Lawrence Allan Revitalization Plan		4,813	6,765	13,272	5,506							30,356	
Regent Park Capital Contribution		2,356	596	1,391	812	44	71	40				5,310	
Other Projects		15,774	24,730	22,040	26,035	21,348	23,148	21,770	20,380	19,270	19,670	214,165	
Sub-Total	57,233	71,128	71,434	84,760	60,474	84,013	89,751	90,793	100,581	95,263	805,430	-	-
Total Expenditures by Category (excluding carry forward)	402,562	800,283	1,090,237	1,086,503	1,208,050	1,164,159	1,189,890	1,106,964	1,114,970	1,129,835	1,215,387	11,106,278	432,752

*Life to Date approved cash flows are provided for multi-year capital projects with cash flow approvals prior to 2016, excluding ongoing capital projects

2016 – 2025 Recommended Capital Projects

The 10-Year Recommended Capital Plan supports Toronto Water's objectives, balances infrastructure renewal needs for State of Good Repair with new Service Improvement projects, and provides the capacity to keep pace with population growth, while ensuring the delivery of water supply and wastewater treatment within an increasingly stringent regulatory framework.

In addition to the state of good repair projects, considerable funding is provided to support the implementation of the Wet Weather Flow Master Plan, Basement Flooding and growth related projects, some of which is recovered from Development Charges. Additional financial pressures arising from updated cost estimates for engineering services for the Highland Creek Biosolids Disposal Truck Loading Facility and the addition of the Basement Flooding program areas approved by Council, are also accommodated within the Plan.

State of Good Repair (SOGR), Health & Safety, and Legislated projects

- The on-going state of good repair projects for linear infrastructure renewal to ensure the replacement or rehabilitation of aging watermains and sewers, and investment in the City's aging wastewater treatment facilities, remains a primary focus of the 2016-2025 Recommended Capital Budget and Plan.
- The 10-Year Recommended Capital Plan incorporates an investment of approximately \$6.787 billion or 61% of the total funding of \$11.106 billion for new SOGR projects (including Health & Safety projects of \$1.125 billion or 10%) over the next 10 years.
- The 2016-2025 Recommended Capital Budget and Plan includes funding of \$565.329 million or 5% of the total capital funding to meet legislated requirements governing the Ashbridges Bay Wastewater Treatment Effluent System. Another \$97.628 million or 0.9% of the total is allocated to the legislated odour control projects at Highland Creek and Humber wastewater treatment plants.
- State of Good Repair funding included in the 10-Year Recommended Capital Plan is intended to address Toronto Water's SOGR backlog, estimated at \$1.623 billion by year-end 2015 and projected to be reduced to \$261.328 million by year-end 2025, if the current funding allocated to State of Good Repair projects is maintained over the next 10 years.
- However, due to significantly higher market rates for linear infrastructure currently returned through the bidding process, this estimate has to be regularly updated.
- It should be noted that Toronto Water is undertaking a review to define its requirements for an integrated Asset Management Solution to support further development of its Asset Management Plans. This review, with recommendations for an implementation plan is expected to be completed in early 2016.

Service Improvements

- Service Improvement projects total \$3.514 million or 32% of total funding over the 10-year period, some of which is recovered from Development Charges.
- Approximately \$1.638 million or 15% has been allocated to implement the Basement Flooding Relief Work Plan in 67 chronic basement flooding areas across the City.
- Funding is also included for the implementation of other water quality improvement projects from the City's Wet Weather Flow Master Plan to reduce and ultimately eliminate the adverse impacts of

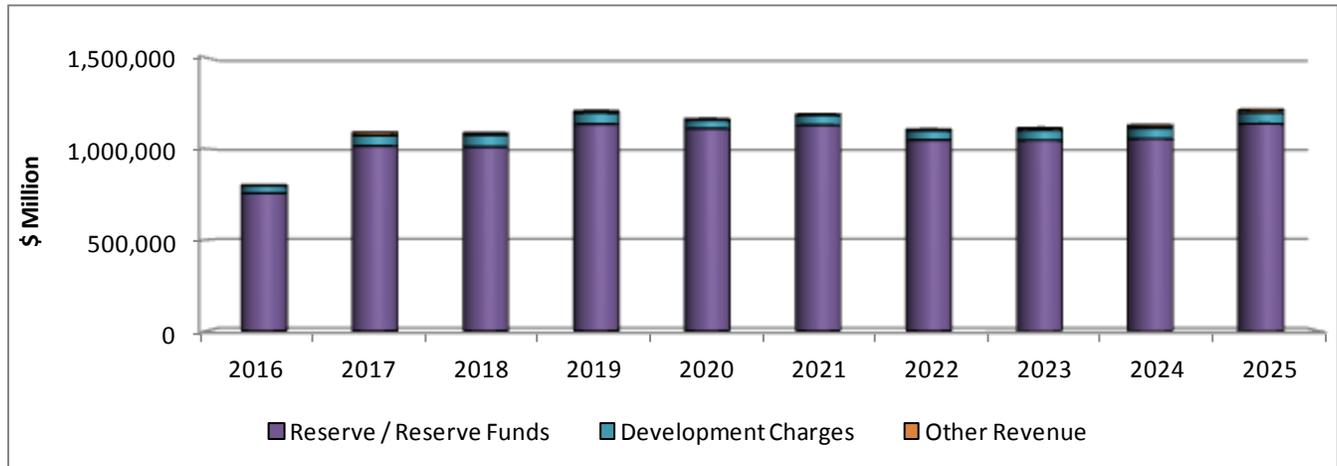
polluted stormwater and combined sewer overflows (CSOs) that are discharged from outfalls to the City's watercourses and the waterfront. These projects will achieve a measurable improvement in ecosystem health of the City's watersheds and waterfront, and improved water quality along the City's waterfront beaches and include:

- The Don River and Waterfront Trunk / Combined Sewer Outfall (CSO) project with allocated funding of \$521.595 million or 5% of the total.
- The Stormwater Management End of Pipe Facilities projects totalling \$209.644 million or 2% of total capital funding which are intended to address most of the storm sewer discharges to the waterfront and all but 9 of the 69 combined sewer overflow discharges in the City.
- Approximately \$140.813 million or 1% is included in the 10-Year Capital Plan in funding contributions to the TRCA for stream restoration and erosion control projects.
- Another \$333.148 million or 3% has been allocated to the Highland Creek Waste Water Treatment Plant upgrades and biosolids and gas handling projects implementation.
- The Water Metering Program approved in 2008 involving the City-wide water meter replacement program coupled with the concurrent installation of automated meter reading technology requires funding of \$18.739 million. This project has been substantially completed in 2015 and will be fully completed by 2017.

Growth Related

- Growth Related projects account for \$805.430 million or 7.2% of the 10-Year Recommended Capital Plan's funding allocation.
- The largest projects in this category are the Trunk Watermain Expansion and Upgrade projects that will increase the hydraulic capacity in the Toronto Water supply system. Many of these projects are cost shared with the Region of York.
- The 2016-2025 Recommended Capital Budget and Plan allocates funding for the New Sewer Construction (\$79.230 million) and Trunk Sewer and Pumping Station projects (\$91.103 million), New Service Connections (\$260.958 million) and Trunk Watermains (\$124.308 million) to provide the necessary servicing capacity based on projected population growth and for the installation of service connections for new homes and developments.

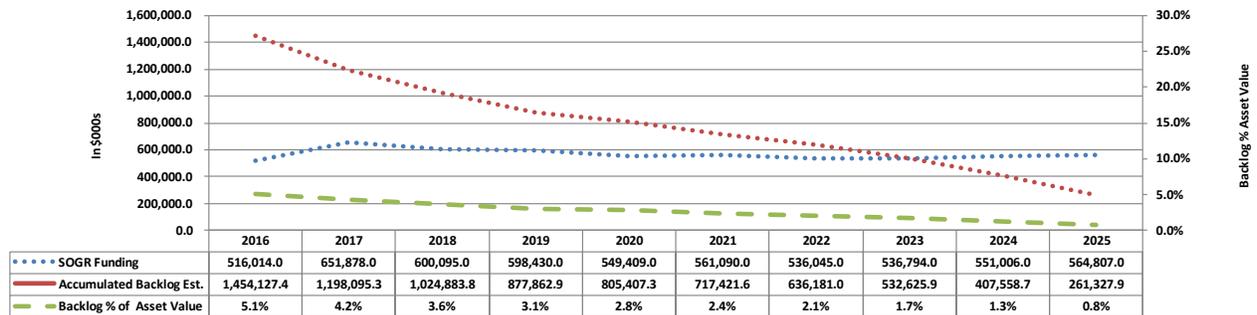
Chart 3
2016 – 2025 Capital Plan by Funding Source (In \$000s)



- Over the 10-year planning horizon, Toronto Water's Capital Plan continues to be 100% funded and does not require debenture financing.
- The 10-Year Recommended Capital Plan of \$11.106 billion will be funded primarily from the Program's reserves, representing approximately 94% or \$10.441 billion of total capital financing.
 - Capital funding from Toronto Water reserves increases from \$756.112 million in 2016 to \$1.137 billion in 2025. This increase in reserve funding coincides with the implementation schedules for large capital projects such as Ashbridges Bay Waste Water Treatment Plant disinfection and outfall construction projects, the Highland Creek Biosolids project and Basement Flooding Protection projects.
 - The 10-Year Recommended Capital Plan is based on planned water rate increases of 8% (2016), followed by 5% (2017 and 2018), and 3% thereafter.
- Development Charges (DC) provide approximately 5% or \$549.500 million of financing included the 10-Year Recommended Capital Plan. The use of Development Charge funding has been maximized based on project eligibility resulting in an increase in funding of \$28.853 million over the 2015 – 2024 Approved Capital Plan's estimates. This increase in development charge funding will assist Toronto Water in maintaining a positive reserve balance, while accommodating increased capital funding needs.

State of Good Repair (SOGR) Backlog

Chart 4
SOGR Funding & Backlog Including New SOGR Funding (In \$000s)



- At the end of 2015, the replacement value of Toronto Water's assets was estimated at \$28.363 billion incorporating both linear (watermains, sewers) and facility/plant (water treatment plants, wastewater treatment plants, pumping stations) assets.

 - Linear infrastructure assets represent approximately 74% of the total asset value at \$20.081 billion.
 - Facility/plant assets account for the remaining 26% or \$7.282 billion.
- Toronto Water projects that the 2015 year-end backlog of state of good repair work for linear and plant infrastructure renewal at \$1.623 billion, representing 5.7% of the asset replacement value. Approximately 56% or \$0.913 billion of the backlog relates to linear infrastructure, with the remaining 44% or \$0.710 billion representing facilities.
- The backlog estimate for various facilities is based on detailed assessment/surveys undertaken in 2005 and 2008. From these assessments, the facility backlog in 2008 was established as \$520 million. In addition, an annual renewal need of \$140 million was defined based on the forecasted life expectancy of various components of the facilities and their appraised replacement costs.
- The backlog estimate for linear infrastructure was established based on a probability model forecasting failure rates based on defined life expectancy ranges for a categorized list of pipes. This backlog was estimated to be \$1.25 billion with an additional annual renewal rate of \$111 million.
- The linear infrastructure and facilities State of Good Repair backlog and annual renewal need estimates have been periodically updated to reflect changes in unit rates for replacement and changing condition of the asset.
- The 10-Year Capital Budget and Plan dedicates \$5.638 billion or \$564 million on average annually, to address state of good repair, which is anticipated to reduce the backlog to \$261.328 million or 0.8% of the total asset value by 2025.

Table 4
SOGR Backlog by Asset Category (In \$000s)

Total	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
State of Good Repair Funding	516,014	651,878	600,095	598,430	549,409	561,090	536,045	536,794	551,006	564,807
Accumulated Backlog Est. (yr end)	1,454,127	1,198,095	1,024,884	877,863	805,407	717,422	636,181	532,626	407,559	261,328
Backlog %Asset Value	5.1%	4.2%	3.6%	3.0%	2.7%	2.4%	2.1%	1.7%	1.3%	0.8%
Asset Value	28,450,427	28,608,016	28,765,389	29,028,298	29,429,708	29,770,126	30,424,371	31,486,693	31,697,099	32,189,261
Plants										
State of Good Repair Funding	189,235	286,848	223,611	217,703	184,960	193,772	161,983	148,269	163,367	175,725
Accumulated Backlog Est. (yr end)	662,522	517,209	435,132	358,963	315,537	263,299	242,851	236,116	214,283	180,092
Backlog %Asset Value	9.1%	7.0%	5.9%	4.8%	4.1%	3.4%	2.9%	2.6%	2.3%	1.9%
Asset Value	7,311,961	7,370,259	7,374,259	7,427,393	7,658,573	7,825,910	8,266,134	9,150,807	9,183,567	9,409,258
Linear Infrastructure										
State of Good Repair Funding	326,779	365,030	376,484	380,727	364,449	367,318	374,062	388,525	387,639	389,082
Accumulated Backlog Est. (yr end)	791,605	680,887	589,752	518,900	489,870	454,122	393,330	296,510	193,275	81,235
Backlog %Asset Value	3.7%	3.2%	2.8%	2.4%	2.3%	2.1%	1.8%	1.3%	0.9%	0.4%
Asset Value	21,138,466	21,237,757	21,391,130	21,600,905	21,771,135	21,944,216	22,158,237	22,335,886	22,513,533	22,780,003

- While both categories of assets have historically received funding for state of good repair projects, the accumulated backlog of projects for linear infrastructure has been addressed at a higher rate, resulting in a proportionally lower backlog representing 4.3% of its replacement value at the end of 2015, compared to 9.7% for facilities.
- Additional condition assessments of infrastructure continue to be undertaken based on asset classes through discrete projects. The condition assessment of booster pumping stations and sewer pipes was completed in 2014 and has resulted in the addition of a pumping station rehabilitation plan to Toronto Water's 10 year Capital Plan in 2015. Condition assessments of sewage pumping stations continue to be undertaken on a prioritized basis and a facility condition assessment will be undertaken over 2 years starting in 2016. New methods for inspection of pressurized pipe are being explored to assess condition of assets without taking the pipes out of service during the inspection.
- Toronto Water is also undertaking a review to define its requirements to develop an integrated Asset Management solution. This review is expected to be completed in early 2016. The integrated Asset Management solution should provide a plan for implementing harmonized asset management planning across Toronto Water's linear and vertical infrastructure in response to multiple pressures driving capital investment.

10-Year Capital Plan: Net Operating Budget Impact

Table 5
Net Operating Impact Summary (In \$000s)

Projects	2016 Rec'd Budget		2017 Plan		2018 Plan		2019 Plan		2020 Plan		2016 - 2020		2016 - 2025	
	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions	\$000s	Positions
Previously Approved														
<i>Basement Flooding Relief</i>			100.0								100.0		100.0	
<i>CCTV Inspection</i>	177.5	1.0	86.7	1.0							264.2	2.0	264.2	2.0
<i>SWM End of Pipe Facilities - North Toronto</i>	228.9	1.0									228.9	1.0	228.9	1.0
<i>Humber River WWTP - Cogeneration Upgrades</i>	(360.0)		(604.6)	4.0							(964.6)	4.0	(964.6)	4.0
<i>Highland Creek WWTP - Solids & Gas Handling</i>	63.0		52.0								115.0		115.0	
<i>Ashbridges Bay WWTP - P Building</i>	150.0										150.0		150.0	
<i>Ashbridges Bay WWTP - Process & Equipment</i>	102.9	1.0									102.9	1.0	102.9	1.0
<i>Ashbridges Bay WWTP - Aeration Tanks</i>	143.2	1.0									143.2	1.0	143.2	1.0
<i>Transmission Operations Optimizer</i>	107.3	1.0									107.3	1.0	107.3	1.0
<i>Sewer Replacement - Waterfront</i>			240.0	2.0	240.0	2.0					480.0	4.0	480.0	4.0
<i>Laboratory Equipment (Warranty Expiry)</i>	10.0										10.0		10.0	
<i>Automated Meter Reading System</i>	(312.9)	(17.0)									(312.9)	(17.0)	(312.9)	(17.0)
New Projects - Future Years														
<i>Operating Impact of Capital - Business System Improvements</i>	35.0										35.0		35.0	
<i>Humber WWTP - New Substation</i>			105.0	1.0							105.0	1.0	105.0	1.0
<i>Water Treatment Taste Odour</i>					760.0		3,000.0				3,760.0		3,760.0	
<i>Water Treatment UV Disinfection</i>													575.0	
<i>Ashbridges Bay WWTP - Effluent System</i>									2,504.0		2,504.0		2,504.0	
<i>SWM End of Pipe Facilities - Etobicoke Waterfront</i>													50.0	1.0
<i>Wet Weather Flow Master Plan</i>							115.0	1.0			115.0	1.0	115.0	1.0
Total Recommended (Net)	344.9	(12.0)	(20.9)	8.0	1,000.0	2.0	3,115.0	1.0	2,504.0		6,943.0	(1.0)	7,568.0	

The 10-Year Recommended Capital Plan will increase future year Operating Budgets by a total of \$7.568 million net over the 2016 – 2025 period, as shown in the table above.

This is comprised of funding to sustain the following capital projects:

- **Year 2016:** An increase in operating costs of \$0.345million. Savings resulting from the implementation of Automated Meter Reading (\$0.313 million) and of the cogeneration facility upgrades at the Humber Wastewater Treatment Plant (\$0.360 million) will partially offset increased operational costs of other previously approved projects, for salaries, benefits, chemicals, energy, utilities, and contracted services, at the Ashbridges Bay and Highland Creek Wastewater Treatment plants.
 - There will also be a need for 2 additional positions at the Ashbridges Bay Treatment Plant. One position each is required for the water services transmission optimization, linear infrastructure inspection scans (CCTV) and the North Toronto CSO facility. There will however be a reduction of 17 positions from the implementation of the Automated Meter Reader System, resulting in a net decrease of 12 positions.
- **Year 2017:** A decrease in operating costs in the amount of \$0.021 million. Savings resulting from the implementation of the cogeneration facility upgrades at the Humber Wastewater Treatment Plant (\$0.605 million) will partially offset operating impact of other capital projects such as Waterfront/ East Bay project and the Humber Wastewater Treatment Plant new substation.
 - 5 new positions will be needed at the Humber Wastewater Treatment Plant. Another 2 positions are needed for the sewer replacement requirements at the Waterfront/East Bay project and one position for the linear infrastructure inspection scans (CCTV).

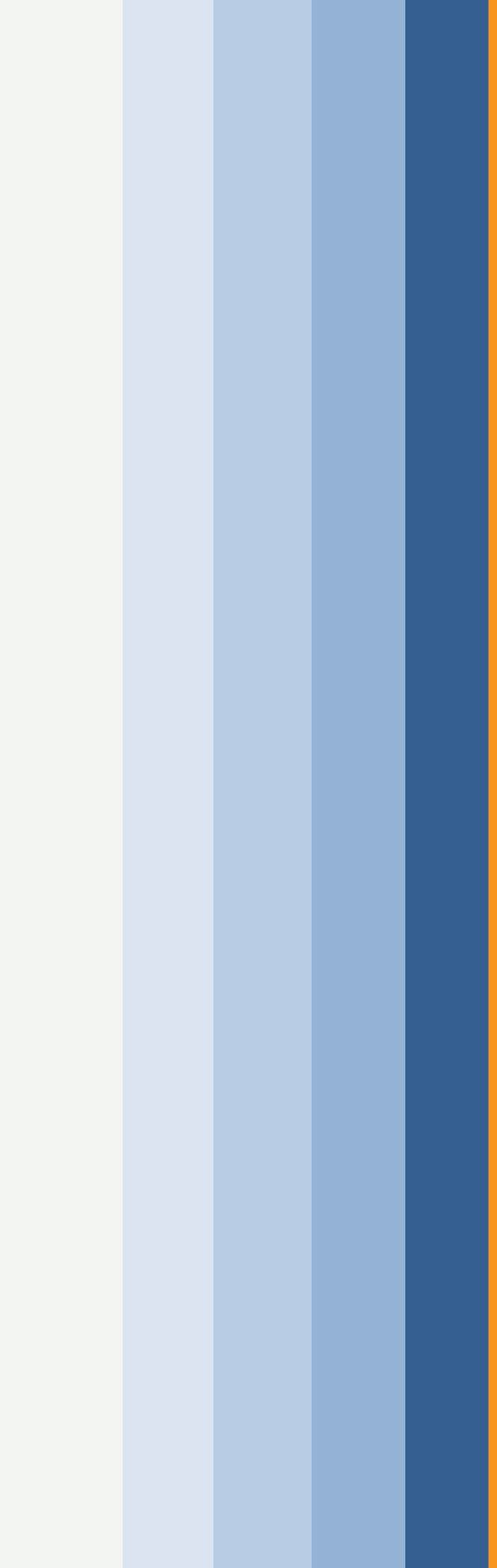
- *Year 2018:* Additional operating costs of \$1.0 million are anticipated from the implementation of the Water Treatment Taste Odour projects (\$0.760 million) and Waterfront/East Bay project (\$0.240 million).
 - In order to maintain new infrastructure resulting from the Waterfront/East Bay project implementation, 2 additional positions will be required.
- *Years: 2019, 2020 and 2021.* The operating cost increase is comprised of funding to sustain the following capital projects :
 - Wet Weather Flow Master Plan projects including the future storm water and combined sewer overflow management End of Pipe Facilities projects at North Toronto and Etobicoke Waterfront - \$0.115 million and \$0.050 million in 2019 and 2021 respectively, including addition of one position for the later.
 - Water Treatment Taste and Odour projects - \$3.0 million in 2019.
 - Ashbridges Bay WWTP effluent system upgrades - \$2.504 million in 2020.
 - Water Treatment UV Disinfection projects - \$0.287 million in each 2021 and 2022.

**Table 6
Capital Project Delivery: Temporary Positions**

Position Title	CAPTOR Project Number	# of Positions	Project Delivery		Salary and Benefits \$ Amount(\$000s)					
			Start Date	End Date (m/d/yr)	2016	2017	2018	2019	2020	2020 - 2025
Linear Infrastructure										
Watermain Maintenance Worker 2	Multiple	3.0	01/01/2016	11/01/2025	225.1					
ABTP Disinfection and Outfall										
Manager Water Treatment Plants	WAS907098	1.0	01/01/2016	01/01/2024	122.5					
Total		4.0			347.6					

Approval of the 2016 – 2025 Recommended Capital Budget and Plan will result in a requirement for 4 temporary capital project delivery positions to support the implementation of *Linear infrastructure projects* as well as the *Ashbridges Bay Treatment Plant Disinfection and Outfall* projects.

It is recommended that Council approve these 4 temporary capital positions for the delivery of the above capital projects / sub-projects and that the duration for each temporary position not exceed the life of the funding of its respective capital projects / sub-projects.

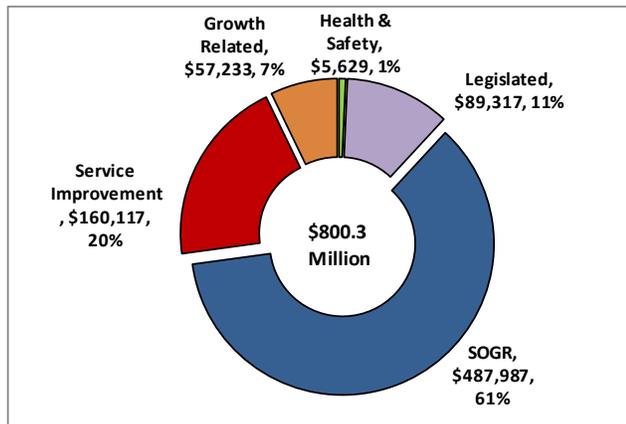


Part II: 2016 Capital Budget

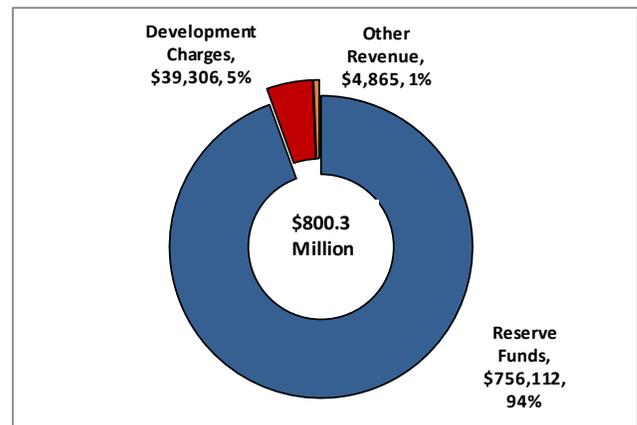
2016 Recommended Capital Budget

2016 Capital Budget by Project Category and Funding Source

2016 Capital Budget by Project Category
(in \$000s)



2016 Capital Budget by Funding Source
(in \$000s)



The 2016 Recommended Capital Budget, excluding funding carried forward from 2015 to 2016, requires new cash flow funding of \$800.283 million.

The 2016 Capital Budget expenditures are allocated to the following project categories:

- *Health & Safety* (\$5.629 million, 1%). The category includes building and electrical upgrades at wastewater treatment plants.
- *Legislated* (\$89.317 million, 11%). The most significant projects in 2016 are the Humber Wastewater Treatment Plant odour control and Ashbridges Bay Treatment Plant effluent system.
- *SOGR* (\$487.987 million, 61%). Approximately \$191.260 million or 33% of the total 2016 SOGR funding will be dedicated to watermain and sewer replacement and rehabilitation projects.
- *Service Improvements* (\$160.117 million, 20%) include Basement Flooding Protection projects and elements of the Wet Weather Flow Master Plan
- *Growth Related* (\$57.233 million, 7%). The category includes expansion projects required for future water supply and wastewater treatment demand.

The 2016 Recommended Capital Budget is financed primarily by:

- Toronto Water's reserves account for approximately 94% or \$756.112 million of total financing.
- Development charges funding has been maximized based on eligible growth component of capital projects and provide funding of \$39.306 million or 5% of the 2016 Recommended Capital Budget.
- Capital cost sharing with York Region for construction of new water and sewer connections, represents 1% or \$4.865 million of 2016 funding.
- Toronto Water's 2016 Capital Budget continues to be self-sustaining and does not require debenture financing. It does not impact the municipal property tax levy.

Table 7
2016 Recommended Cash Flow & Future Year Commitments (In \$000s)

	2015 Carry Forwards	2016 Rec'd Cash Flow	Total 2016 Cash Flow (Incl C/Fwd)	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total 2016 Rec'd Cash Flow & FY Commits
Expenditures													
Previously Approved	48,798	848,766	897,564	755,157	468,080	297,114	221,302	185,393	86,507	80,520	39,930		3,031,567
Change in Scope		(171,380)	(171,380)	(17,446)	19,921	85,512	34,945	39,812	78,912	38,163	62,826	54,610	225,875
New													
New w/Future Year		122,897	122,897	135,393	111,429	63,380	25,605	19,770	12,950	14,650	5,820	1,020	512,914
Total Expenditure	48,798	800,283	849,081	873,104	599,430	446,006	281,852	244,975	178,369	133,333	108,576	55,630	3,770,356
Financing													
Debt													
Other	107	4,865	4,972	13,045	3,550	2,007	970	245	300	150	30		25,269
Reserves/Res Funds	42,865	756,112	798,977	820,137	560,976	422,360	274,168	234,685	172,024	127,340	101,966	50,932	3,563,565
Development Charges	5,826	39,306	45,132	39,922	34,904	21,639	6,714	10,045	6,045	5,843	6,580	4,698	181,522
Provincial/Federal													
Total Financing (including carry forward funding)	48,798	800,283	849,081	873,104	599,430	446,006	281,852	244,975	178,369	133,333	108,576	55,630	3,770,356

Approval of the 2016 Recommended Capital Budget of \$849.081 million will result in the following:

- \$48.798 million in 2015 funding that will be carried forward into 2016 for on-going upgrades at the Island Treatment Plant, FJ Horgan Treatment Plant, Humber Treatment Plant and Ashbridges Bay Treatment Plant, as well as completion of a number of projects including Business & Process Control System Improvement projects, linear infrastructure rehabilitation and replacement and various Basement Flooding and Wet Weather Flow projects.
- Recommended multi-year funding of \$800.283 million in 2016 which will require future year commitments of \$2.921 billion from 2017 to 2025 for initiatives that will either commence or continue in 2016 and are anticipated to be completed in future years.
 - The high rate of commitment to future year funding reflects the nature of Toronto Water's capital program which includes many multi-year, multi-million dollar projects such as the Water and Wastewater Treatment upgrade projects; Transmission Watermains; Basement Flooding Protection Program and Watermain Replacement.
 - The use of multi-year contracts has allowed Toronto Water to increase its capital delivery and spending rates.

2016 Recommended Capital Project Highlights

Table 8
2016 Recommended Capital Project Commitments by Category (in \$000s)

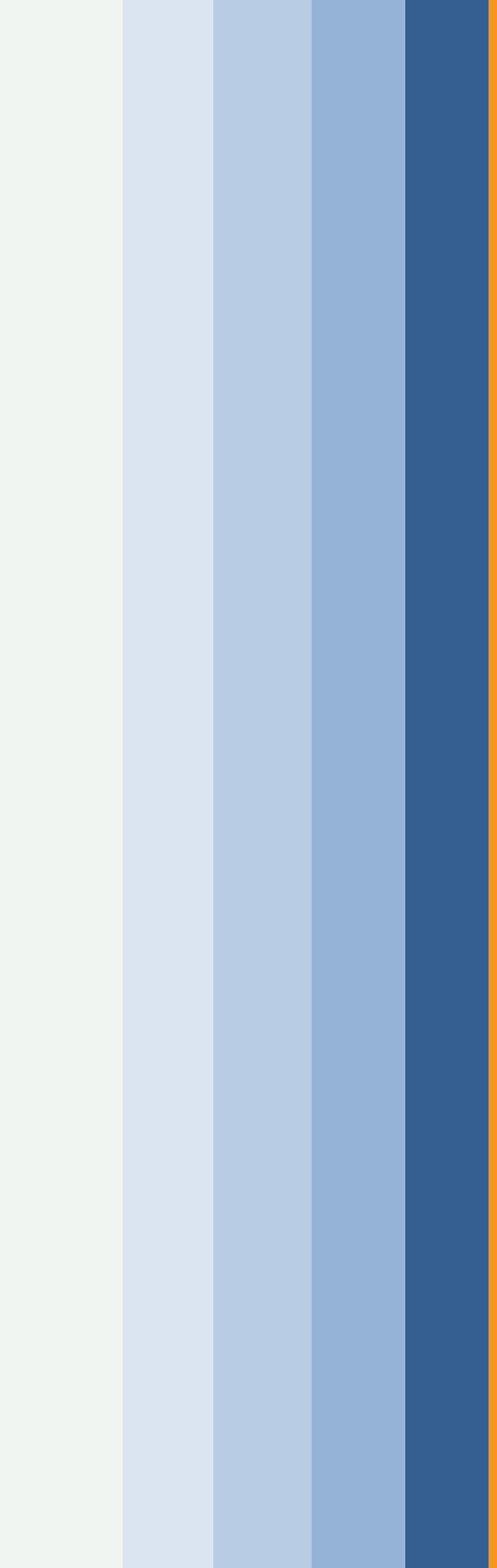
Project	Total Project Cost	2016	2017	2018	2019	2020	2016 - 2020	2021	2022	2023	2024	2025	2016 - 2025 Total
Health & Safety:													
ASHBRIDGES BAY WWTP REHAB		4,426	3,765	1,710	35	-	9,936	-	-	-	-	-	9,936
HUMBER WWTP UPGRADES		996	2,759	2,200	1,100	23	7,078	423	400	400	400	400	9,101
NORTH TORONTO WTP UPGRADES		207	1,205	2,295	1,100	-	4,807	-	-	-	-	-	4,807
Sub-Total		5,629	7,729	6,205	2,235	23	21,821	423	400	400	400	400	23,844
Legislated:													
ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV		100	100	-	-	-	200	-	-	-	-	-	200
ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM		7,510	11,440	10,700	5,960	5,167	40,777	5,123	5,000	1,660	269	-	52,829
CLARK RESIDUE MGMT. FACILITIES		200	994	425	-	-	1,619	-	-	-	-	-	1,619
DIST WATER SERVICE REPAIR		46,500	35,756	11,736	2	-	93,994	-	-	-	-	-	93,994
ENGINEERING STUDIES		797	200	200	-	-	1,197	-	-	-	-	-	1,197
HIGHLAND CREEK WWTP - ODOUR CONTROL		18,000	15,000	15,000	5,205	-	53,205	-	-	-	-	-	53,205
HIGHLAND CREEK WWTP UPGRADES		25	975	1,500	-	-	2,500	-	-	-	-	-	2,500
HUMBER WWTP - ODOUR CONTROL		9,992	3,385	-	-	-	13,377	-	-	-	-	-	13,377
HUMBER WWTP UPGRADES		300	-	-	-	-	300	-	-	-	-	-	300
ISLAND W.T.P. R&R		2,270	8,694	7,740	2,900	3,900	25,504	1,580	10	10	-	-	27,104
OPERATIONAL SUPPORT		100	100	100	-	-	300	-	-	-	-	-	300
SEWAGE PUMPING STATION UPGRADES		3,470	1,248	3,250	6,300	5,300	19,568	4,200	3,100	50	50	-	26,968
SEWER SYSTEM REHABILITATION		53	144	-	-	-	197	-	-	-	-	-	197
Sub-Total		89,317	78,036	50,651	20,367	14,367	252,738	10,903	8,110	1,720	319	-	273,790
State of Good Repair:													
ASHBRIDGES BAY T.P. YR2006		297	1,248	-	-	-	1,545	-	-	-	-	-	1,545
ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING		46,977	33,724	24,828	53,000	53,000	211,529	57,500	57,500	49,750	45,000	35,000	456,279
ASHBRIDGES BAY WWTP - O&M UPGRADES		7,517	9,532	4,980	3,167	-	25,196	-	-	-	-	-	25,196
ASHBRIDGES BAY WWTP - ODOUR CONTROL		9,164	8,234	122	-	-	17,520	-	-	-	-	-	17,520
ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING		5,537	14,517	15,468	14,710	2,710	52,942	2,158	110	284	-	-	55,494
ASHBRIDGES BAY WWTP REHAB		12,407	15,437	19,371	24,176	20,953	92,344	18,532	16,268	214	10	-	127,368
ASHRIDGES BAY TP YR2005		1,918	4,955	2,335	237	-	9,445	-	-	-	-	-	9,445
DIST SEWER REHAB OPS YR2005		4	3	-	-	-	7	-	-	-	-	-	7
DIST W/M REHABILITATION		53,460	61,201	15,079	15	2	129,757	-	-	-	-	-	129,757
DIST W/M REPLACEMENT		56,378	26,710	9,662	1,000	-	93,750	-	-	-	-	-	93,750
DIST WATER SERVICE REPAIR		1,750	1,750	-	-	-	3,500	-	-	-	-	-	3,500
DOWNTOWN W/M ENHANCEMENT		715	5,312	-	-	-	6,027	-	-	-	-	-	6,027
ENGINEERING		48,799	27,912	20,910	13,614	12,108	123,343	3,626	-	-	-	-	126,969
EQUIPMENT REPLACEMENT & REHABILITATION		800	5,704	4,558	3,652	-	14,714	-	-	-	-	-	14,714
FJ HORGAN W.T.P. R&R		2,420	2,781	2,400	250	152	8,003	10	9	-	-	-	8,022
HARRIS W.T.P. R&R		12,878	16,517	7,253	773	750	38,171	200	-	-	-	-	38,371
HIGHLAND CREEK TP YR2005		7	27	6	-	-	40	-	-	-	-	-	40
HIGHLAND CREEK WWTP - BUILDING SERV & SITE DEV		3,500	3,500	4,000	1,742	-	12,742	-	-	-	-	-	12,742
HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING		1,000	771	-	-	-	1,771	-	-	-	-	-	1,771
HIGHLAND CREEK WWTP UPGRADES		22,972	30,361	14,575	18,731	5,065	91,704	3,100	4,100	3,200	6,380	5,000	113,484
HUMBER WWTP - LIQUID TREATMENT & HANDLING		9,583	48,283	48,350	48,332	48,250	202,798	47,193	150	394	-	-	250,535
HUMBER WWTP - O&M UPGRADES		6,706	3,320	-	-	-	10,026	-	-	-	-	-	10,026
HUMBER WWTP UPGRADES		8,257	9,807	1,072	117	200	19,453	750	4,700	10,500	2,150	-	37,553
ISLAND W.T.P. R&R		4,144	7,100	6,245	562	10	18,061	-	-	-	-	-	18,061
RL CLARK W.T.P. R&R		9,430	22,470	12,850	1,474	60	46,284	-	-	-	-	-	46,284
SEWAGE PUMPING STATION UPGRADES		3	-	-	-	-	3	-	-	-	-	-	3
SEWER ASSET PLANNING		12,223	16,195	14,841	16,090	11,255	70,604	5,495	-	-	-	-	76,099
SEWER REPLACEMENT PROGRAM		19,318	16,620	16,692	11,686	50	64,366	-	-	-	-	-	64,366
SEWER SYSTEM REHABILITATION		57,169	39,200	18,831	-	-	115,200	-	-	-	-	-	115,200
STREAM RESTORATION & EROSION CONTROL		6,424	10,563	12,210	11,530	4,700	45,427	2,250	3,150	3,100	3,020	520	57,467
SWITCH GEAR TRANSFORMER		4,300	3,125	-	-	-	7,425	-	-	-	-	-	7,425
TRANSMISSION R&R		20,668	43,830	27,950	5,988	80	98,516	11	-	-	-	-	98,527
TRUNK SEWER SYSTEM		33,982	29,074	27,490	13,681	279	104,506	10	-	-	-	-	104,516
TRUNK WATERMAIN		50	3,500	2,950	-	-	6,500	-	-	-	-	-	6,500
W&WW LABORATORIES		292	188	207	-	-	687	-	-	-	-	-	687
WESTERN BEACHES RETROFIT		920	3,271	3,092	1,057	15	8,355	86	-	-	-	-	8,441
WET WEATHER FLOW MP		3,020	3,550	4,800	4,800	2,000	18,170	-	-	-	-	-	18,170
Sub-Total		484,989	530,292	343,127	250,384	161,639	1,770,431	140,921	85,987	67,442	56,560	40,520	2,161,861

2016 Recommended Capital Project Commitments by Category (in \$000s) - Continued

Project	Total Project Cost	2016	2017	2018	2019	2020	2016 - 2020	2021	2022	2023	2024	2025	2016 - 2025 Total
Service Improvements:													
ASHBRIDGES BAY T.P. - III YR2004		167	30	-	-	-	197	-	-	-	-	-	197
ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV		800	1,300	3,250	4,455	80	9,885	80	-	-	-	-	9,965
ASHBRIDGES BAY WWTP REHAB		803	355	200	200	400	1,958	5,500	5,500	-	-	-	12,958
BASEMENT FLOODING RELIEF		67,754	88,816	82,119	84,532	64,893	388,114	58,430	60,030	36,730	15,509	10	558,823
BUSINESS IT PROJECTS		919	1,721	1,422	1,273	1,000	6,335	500	-	-	-	-	6,835
BUSINESS SYSTEM INFRASTRUCTURE - PW		9,296	8,913	7,100	7,610	4,600	37,519	50	110	-	-	-	37,679
DON & WATERFRONT TRUNK CSO		9,686	7,095	5,338	5,180	5,180	32,479	5,180	5,307	5,641	488	-	49,095
EMERY CREEK POND		7,380	5,793	50	-	-	13,223	-	-	-	-	-	13,223
ENGINEERING STUDIES		472	1,280	855	105	5	2,717	-	-	-	-	-	2,717
EQUIPMENT REPLACEMENT & REHABILITATION		118	-	-	-	-	118	-	-	-	-	-	118
FJ HORGAN W.T.P. R&R		1,710	3,245	1,378	1,828	10	8,171	10	-	-	-	-	8,181
HARRIS W.T.P. R&R		452	2,776	1,153	7	-	4,388	-	-	-	-	-	4,388
HIGHLAND CREEK WWTP - ODOUR CONTROL		1,002	1,000	1,020	917	100	4,039	5	-	-	-	-	4,044
HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING		125	3,010	4,340	1,600	655	9,730	2,000	250	250	-	-	12,230
HIGHLAND CREEK WWTP UPGRADES		1,948	12,212	13,370	14,515	12,148	54,193	10,690	35	-	-	-	64,918
HUMBER T.P.		200	200	109	-	-	509	-	-	-	-	-	509
HUMBER T.P. - II YR2004		5	1	-	-	-	6	-	-	-	-	-	6
HUMBER TP YR2005		1,239	440	100	60	-	1,839	-	-	-	-	-	1,839
HUMBER WWTP UPGRADES		700	2,400	1,860	1,160	25	6,145	25	-	-	-	-	6,170
ISLAND PLANT WINTERIZATION		404	-	-	-	-	404	-	-	-	-	-	404
ISLAND W.T.P. R&R		265	1,822	1,791	-	-	3,878	-	-	-	-	-	3,878
Land Acquisition for Source Water Protect		7,000	85	-	-	-	7,085	-	-	-	-	-	7,085
METERING & METER READING SYS		8,299	6,980	2,000	915	545	18,739	-	-	-	-	-	18,739
NEW SEWER CONSTRUCTION		1	-	-	-	-	1	-	-	-	-	-	1
OPERATIONAL SUPPORT		3,688	6,078	6,309	5,808	4,024	25,907	24	-	-	-	-	25,931
PW ENGINEERING		600	1,500	1,000	1,000	1,000	5,100	1,000	1,000	500	500	500	8,600
SEWER SYSTEM REHABILITATION		500	187	-	-	-	687	-	-	-	-	-	687
STREAM RESTORATION & EROSION CONTROL		20	25	-	-	-	45	-	-	-	-	-	45
SWM TRCA FUNDING		4,171	-	-	-	-	4,171	-	-	-	-	-	4,171
SWM END OF PIPE FACILITIES		7,854	4,000	7,400	5,570	130	24,954	-	-	-	-	-	24,954
SWM SOURCE CONTROL PROG		150	150	150	-	-	450	-	-	-	-	-	450
TRANSMISSION OPERATIONS OPTIMIZER		2	-	-	-	-	2	-	-	-	-	-	2
TRUNK WATERMAIN		2,704	2,504	260	250	200	5,918	200	-	-	-	-	6,118
WET WEATHER FLOW MP		7,284	10,507	7,045	5,050	500	30,386	5,000	5,000	2,950	-	-	43,336
WT&S PLANTWIDE		1,700	1,100	600	1,200	1,400	6,000	800	1,000	500	100	-	8,400
YARD & BUILDING RENOVATION		2	2	2	-	-	6	-	-	-	-	-	6
		-	-	-	-	-	-	-	-	-	-	-	-
Sub-Total		149,420	175,527	150,221	143,235	96,895	715,298	89,494	78,232	46,571	16,597	510	946,702
Growth Related:													
ASHBRIDGES BAY WWTP REHAB		250	1,000	500	250	-	2,000	-	-	-	-	-	2,000
DIST W/M REPLACEMENT		10,382	4,207	1,840	-	-	16,429	-	-	-	-	-	16,429
DISTRICT WATERMANS - NEW		50	500	-	-	-	550	-	-	-	-	-	550
Georgetown South City Infrastructure Upgrades		5,680	5,680	5,680	5,680	-	22,720	-	-	-	-	-	22,720
HIGHLAND CREEK WWTP UPGRADES		500	500	500	-	-	1,500	-	-	-	-	-	1,500
HORGAN W.T.P. EXPANSION		109	-	-	-	-	109	-	-	-	-	-	109
LAWRENCE ALLAN REVITALIZATION PLAN		4,813	6,765	13,272	5,506	-	30,356	-	-	-	-	-	30,356
NEW SERVICE CONNECTIONS		27,100	27,000	7,500	-	-	61,600	-	-	-	-	-	61,600
NEW SEWER CONSTRUCTION		60	1,950	2,000	4,500	-	8,510	-	-	-	-	-	8,510
PW ENGINEERING		500	1,000	500	-	-	2,000	-	-	-	-	-	2,000
REGENT PARK CAPITAL CONTRIBUTION		2,356	596	1,391	812	44	5,199	71	40	-	-	-	5,310
SEWAGE PUMPING STATION UPGRADES		2	-	-	-	-	2	-	-	-	-	-	2
SEWER ASSET PLANNING		363	225	-	-	-	588	-	-	-	-	-	588
SEWER SYSTEM REHABILITATION		2,613	5,300	6,300	6,165	1,928	22,306	28	-	-	-	-	22,334
TRANSMISSION R&R		350	230	-	-	-	580	-	-	-	-	-	580
TRUNK SEWER SYSTEM		850	753	-	-	-	1,603	-	-	-	-	-	1,603
TRUNK WATERMAIN EXPANSION		600	604	450	173	21	1,848	-	-	-	-	-	1,848
WATER EFFICIENCY PROGRAM		520	520	-	-	-	1,040	-	-	-	-	-	1,040
WATER STORAGE EXPANSION		135	18	-	-	-	153	-	-	-	-	-	153
		-	-	-	-	-	-	-	-	-	-	-	-
Sub-Total		57,233	56,848	39,933	23,086	1,993	179,093	99	40	-	-	-	179,232
Total (excluding carry forward funding)		800,283	873,104	599,430	446,006	281,852	3,000,675	244,975	178,369	133,333	108,576	55,630	3,721,558

The 2016 Recommended Capital Budget provides funding of \$800.243 million to:

- Continue state of good repair projects to address infrastructure renewal such as Watermain Replacement and Rehabilitation (\$115.818 million), Sewer System Replacement and Rehabilitation (\$75.442 million), and Trunk Sewers and Pumping Stations (\$34.185 million).
- Continue the Basement Flooding Protection projects (\$67.754 million), implementation of the Wet Weather Flow Master Plan (\$32.374 million), and Erosion Control projects (\$10.364 million).
- Continue to provide funding for TRCA erosion control projects and land acquisition for source water protection (\$11.171 million).



Part III:

Issues for Discussion

Issues for Discussion

Issues Impacting the 2016 Capital Budget

Water Consumption Forecast

- As noted in the 2016 Water and Wastewater Rate report, there has been a trend towards reduced water consumption over the last decade, despite population growth. Besides weather conditions, the decline in water consumption is attributed to water efficiency measures and economic factors.
- Over the last 10 years, Toronto's water consumption has declined by approximately 13%, from 374 cubic metres in 2005 to 327 million cubic metres at the end of 2014.
- In 2015, actual consumption has continued to decline. Based on the billing data to the end of August 2015, projected year-end consumption is estimated at 322 million cubic metres, a further drop of 1.5% compared to 2014 actual consumption.
- The 2016 Water and Wastewater Rate Model assumes that the 2016 consumption will remain at the same level as the 2015 projected actual experience. For future years (2017-2025), a 0.5% decline in consumption is projected annually.
- It is important to note that uncertainty in revenues from the sale of water continues to be a challenge for Toronto Water, especially given that a 1% variance in water consumption estimates would have an \$8.5 million impact on annual anticipated water rate revenue.

Water Rate Increases & Reserve Balances

- Council, as part of the 2015 budget process, endorsed the direction that the capital plan prepared for the 2016 Budget process be premised on 8% water and wastewater consumption rate increases for 2015 and 2016, followed by successive 5% increases in 2017 and 2018 in order to reinstate approximately \$1 billion in capital funding lost from a systematic decline in consumption and to fund emerging projects.
- For 2016, Toronto Water's 10 Year Capital Plan has been updated to enable it to deliver on key priorities, while also addressing emerging service improvement projects. In order to provide the necessary revenue stream for the 2016-2025 Recommended Capital Budget and Plan in accordance with the project delivery schedule, the following rate increases are recommended and incorporated in the 2016 Water and Wastewater Rate Model:
 - 8% in 2016.
 - 5% in 2017 and 2018.
 - 3% from 2019 to 2025.
- The following should be noted:
 - Based on the above water consumption and water and wastewater rates, sufficient revenues will be generated to fund the 2016-2025 Recommended Capital Budget and Plan, leaving a positive capital financing reserve balance of \$47.697 million at the end of the 10-year period. Due to the fact that the reserve balance decreases to approximately \$15.7 million and \$7.5 million in years 2021 and 2022, as some of the largest multi-year projects are nearing

completion, any further decline in water consumption would require an adjustment of the 10-Year Requested Capital Plan's projects.

- Toronto Water's 10-Year Recommended Capital Plan includes a forecast for the expanded TRCA Watercourse Erosion Control project for a total of \$69.0 million to be spent between 2017 and 2025. It was assumed that 2/3 (\$46 million) will be funded by other orders of government. This funding has yet to be secured. Funding for 2016 is being drawn predominately from the Capital Reserve and a baseline funding allocation for TRCA critical erosion from 2017-2025 for \$18 million is similarly being funding from the Capital Reserve.
- The previously unfunded TRCA Scarborough Waterfront Trail (\$54 million) has not been incorporated in Toronto Water's 10-Year Recommended Capital Plan since this project is awaiting results of the Environmental Impact Assessment that is currently underway and will not be completed until 2017. The scope of this project includes both trail/parkland and soil erosion work necessary to establish this new trail. Any further Toronto Water funding will be established on the portion of work associated with soil erosion component only, once their portion is known.
- Unit rate pricing for linear infrastructure replacement have escalated recently, requiring additional funding to cover these increased project costs. As a result, the Program has deferred some previously planned capital projects by 1 to 5 years, to align with the Water and Wastewater Rate Model financial projections of available rate funding. This trend, if it continues, will not only significantly impact the state of good repair backlog for infrastructure renewal, but possibly create funding pressures in future years.

Issues Impacting the 10-Year Capital Plan

State of Good Repair (SOGR) Backlog

- Toronto Water currently has a significant infrastructure renewal backlog, higher than any other major Canadian urban centre. It has the largest asset base in the country, estimated at \$28.363 billion with some infrastructure dating back to the 1800s.
- However, some of the City's oldest pipes (100 years or older) are still performing well. As Toronto Water plans for the renewal of aging infrastructure, a risk based approach is taken that considers infrastructure age, condition and performance assessment, upsizing, which may be required to service future growth, and opportunities to reduce overall costs.
- Some key initiatives to identify Toronto Water's State of Good Repair needs include:
 - Water Loss Reduction Program which includes leak detection surveys on distribution water mains that is an indicator of the condition and performance of watermain.
 - Closed camera TV (CCTV) inspection program that utilizes closed camera technology to assess the condition of sanitary and storm sewers.
- The 2015 year-end value of the infrastructure renewal backlog is estimated at \$1.623 billion, reflecting 5.7% of Toronto Water's total asset value of \$28.363 billion. This is based on a detailed

analysis of current condition assessments and assumptions of service life by linear asset class, coupled with assessments of water and wastewater treatment facilities.

- Condition assessments of infrastructure by asset class continue to be reviewed and updated. In addition to the condition assessments, Toronto Water is undertaking a review to define its requirements for an integrated Asset Management Solution to support further development of its Asset Management Plans. This review, with recommendations for an implementation plan is expected to be completed in early 2016.
- The 10-Year Recommended Capital Plan State of Good Repair funding totals \$5.637 billion that averages \$564 million annually over the 10 year period. This level of funding will contribute towards reducing the watermain and sewer break rates. If the projected 2015 state of good repair backlog remains unchanged, the year-end backlog will be reduced from \$1.623 billion in 2015 to \$261.328 million by 2025.
- A continued trend in escalating unit rate pricing for linear infrastructure will significantly impact the state of good repair backlog for infrastructure renewal as project deferral is required to align with projected funding. These unit rates are mostly impacted by construction industry capacity to deliver projects across the City.
- The Program's State of Good Repair Backlog analysis excludes stormwater management facilities (stormwater ponds and underground storage tanks) as they are relatively new assets, nor does it include stream restoration from erosion scars. Restoration is planned on a priority basis to protect existing infrastructure and in coordination with the Toronto Region Conservation Authority based on site conditions resulting from extreme weather events.

Basement Flooding

- In April 2006, City Council approved a Basement Flooding Protection Work Plan (now referred to as the Basement Flooding Protection Program) to undertake comprehensive engineering studies in 31 basement flooding study areas that experienced significant flooding during extreme storms in May 2000 and August 2005.
- New service level standards were adopted, requiring storm drainage systems to accommodate a 1 in 100 year return frequency storm event, up from the current 1 in 2 to 1 in 5 year return frequency storm.
- Between 2006 and 2013, the number of study areas in the City was increased from 31 to 34 study areas in response to additional storm events and new occurrences of basement flooding.
 - Extreme storms in 2008, 2012, July 8, 2013, and June 25, 2014 impacted different parts of the City and resulted in thousands of flooding complaints. In December 2013, City Council approved the city-wide expansion of the Basement Flooding Protection Program. Seven new study areas were delineated in this same report bringing the total to 41 areas.
 - As part of the 2015 Capital Budget Process, another 26 new study areas were delineated to address the city wide expansion of the program, bringing the total number to 67 Study Areas. As these new EA studies are completed, even further ongoing updates to the cost to implement basement flooding protection projects will be needed.

- As of the end of October 2015, Basement Flooding Environmental Assessment (EA) studies for 26 basement flooding study areas have been completed. These EA studies investigate the causes of basement and surface flooding and recommend sewer system improvements to reduce the risk of future basement flooding during extreme storms. Fifteen studies are ongoing and they will be completed in 2015, the 8 remaining areas are anticipated to be completed in 2017.
- The construction of basement flooding protection projects began in 2009. Many challenges exist with the implementation of works recommended by the EA studies. Retrofitting an area to accommodate the higher level of storm drainage and overland flow controls in existing fully developed areas present the most significant challenge in terms of cost, scheduling and disruption to the local communities.
 - By the end of 2015, \$237 million will have been spent to upgrade over 130 kilometres of storm and sanitary sewers, build two surface storage ponds, and build one underground storm storage tank to meet the enhanced level of service requirements required under the Basement Flooding Protection Program. A further \$55 million in construction projects has been committed.
- The 2016 – 2025 Capital Budget and Plan includes \$1.638 billion in funding for Basement Flooding Relief projects, representing an increase of \$158.3 million over the approved funding in the 2015-2024 Capital Plan.
- Despite this level of funding, Toronto Water will continue to face the following challenges:
 - There are increasing demands and high expectations for the further acceleration of basement flooding EA studies and implementation of projects by residents and businesses as a result of the tremendous impacts of basement flooding during extreme weather events.
 - Some of the recommended basement flooding protection projects from completed basement flooding EA studies have a cost that is greater than the Council adopted threshold of \$32,000 per benefitting property, and therefore these projects are not proceeding to engineering design and construction.
- The cost to implement basement flooding protection projects across all 67 study areas need to be continuously updated, as basement flooding EA studies are completed and new works are recommended.
 - In August 2014, Council approved an expanded program management capital delivery model for the Basement Flooding Protection Program that will deliver more quickly and more efficiently a larger number of infrastructure improvements, and meet the needs of the city-wide expansion of the Program.

Stream Restoration and Critical Erosion Projects

- As a part of its Stormwater Management Program, Toronto Water provides an annual funding contribution to the Toronto and Region Conservation Authority (TRCA) for stream restoration and erosion control projects. The 2016-2025 Recommended Capital Budget and Plan allocates a total of \$140.813 million over a 10-year period, as Toronto Water continues to support the TRCA's efforts in watercourse management.

- Toronto Water's 2016-2025 Recommended Capital Budget and Plan also includes further funding of \$104.302 million over the next 10 year horizon for stream restoration and erosion management to carry out work to protect its own infrastructure in valley lands.

Funding Pressures for Stormwater Management:

- At its meeting of October 30, 31 and November 1, 2012, Council in considering a report entitled "**Toronto Water Capital Program Funding Pressures and Financing Options**", directed the Deputy City Manager and Chief Financial Officer, and General Manager, Toronto Water to report to Executive Committee on strategies to maximize funding capacity and/or provide reductions in current project costs to address existing and emerging unfunded capital priorities and financing options in June 2013, in advance of Toronto Water's long term Capital Plan. Council also requested that as part of the same report, consideration be given to a property owner's ability to pay in establishing the water rate and/or water rate increases, and with respect of the introduction of a fixed stormwater charge for the Wet Weather Flow Program.
- At its meeting of July 16, 17, 18 and 19, 2013, City Council directed the General Manager, Toronto Water, in consultation with the Deputy City Manager & Chief Financial Officer, to report to the October 30, 2013 meeting of the Executive Committee with financing options for increased investment in Toronto Water Infrastructure, particularly for Wet Weather Flow Management Master Plan and Basement Flooding Protection projects, as previously directed by Council of November 29, 30 and December 1, 2012.
- In response to the above requests, the General Manager of Toronto Water and the Deputy City Manager & Chief Financial Officer, prepared a report titled "**Future Options and Public Attitudes for Paying for Water, Wastewater and Storm Water Infrastructure and Services**", which was approved by Council in November, 2013.
- The report underlined Toronto Water's need for more funding in order to continue to provide safe drinking water, safely treat wastewater, and provide stormwater management to protect private property and the environment.
- In approving the report recommendations City Council requested the General Manager Toronto Water, and the Deputy City Manager & Chief Financial Officer to identify the most appropriate way to generate additional revenue for Toronto Water to fund its substantial infrastructure and to conduct further detailed studies including stakeholder input on such options.
- Some of the revenue generating options that were identified include:
 - Water rate increases greater than the rate of inflation once the '9% for 9 years' increases end in 2014; and/or,
 - A separate stormwater management charge on the water bill; and/or,
 - Debenture financing for large scale, long service period projects, with all debt service costs to be paid from water rate revenue; and/or,
 - Local improvement charges for all or a portion of the Basement Flooding Protection Program.
- City Council also directed the Deputy City Manager & Chief Financial Officer and the General Manager Toronto Water, to report back to the Executive Committee, as part of Toronto Water's

2015 Capital Budget Submission with a recommended financing strategy to support Toronto Water's long term Capital Plan with a detailed implementation plan.

- In response to this request, a report entitled "**Funding Option for Paying for the Toronto Water Capital Program**" will be presented for consideration concurrently with the 2016 Recommended Operating Budget and 2016-2025 Recommended Capital Budget and Plan.
 - This report highlights the growing needs of the stormwater management capital program, which, as a portion of the total capital program, is projected to grow from 18% in 2015 to 40% in 2025. The report recommends development of an implementation plan for a charge that is dedicated to funding stormwater management projects. This involves a separate funding structure for stormwater management based on alternative parameters including per lot charges and impervious area, with a possible implementation as early as 2018.
 - It should be underlined that the 2016-2025 Recommended Capital Plan is based on the current consumption based water rate funding and all necessary revenues for the Capital Plan are to be generated by the recommended rate increases by the 2016 Water and Wastewater Rates and Service Report until such time that Council approves a new funding structure.

Other Challenges: Planning for Growth

- The City of Toronto is experiencing significant growth with many landowners submitting development applications to increase the density permitted by the zoning-by-law. A strategy is required to ensure that water and wastewater services are available for the new developments.

Issues Referred to the 2016 Capital Budget Process

Additional TRCA Projects

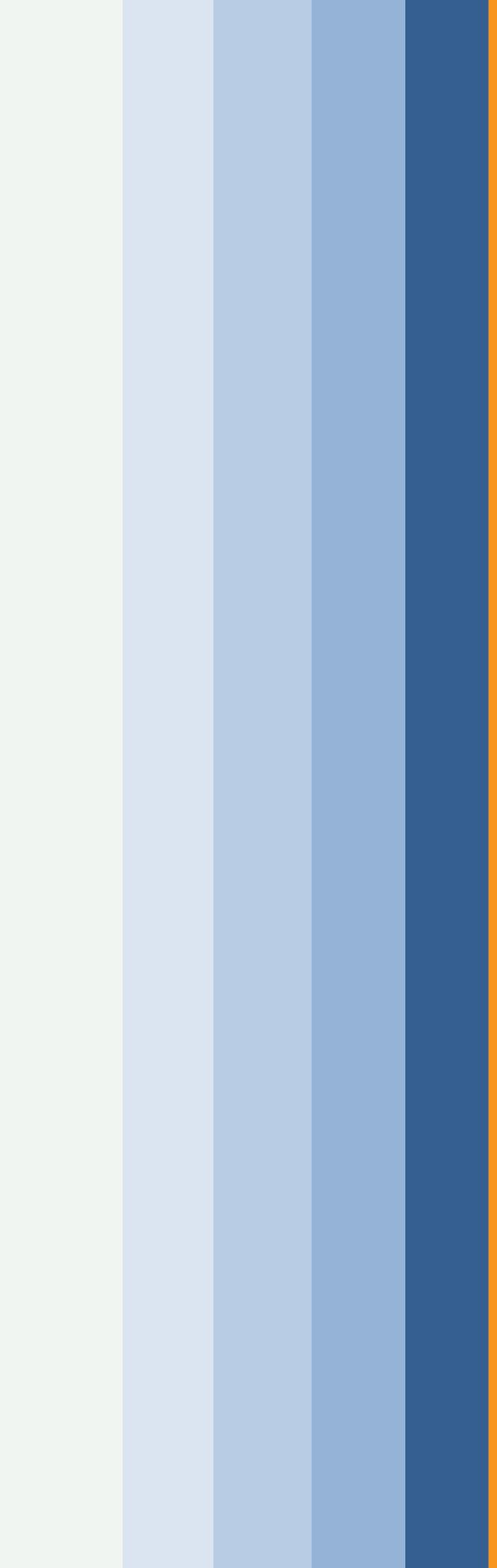
During the 2015 Budget Process, City Council request the General Manager, Toronto Water and the Deputy City Manager and Chief Financial Officer, in consultation with the General Manager, Parks, Forestry and Recreation and Chief Executive Officer, Toronto and Region Conservation Authority, to consider as part of the 2016 budget process, funding the following Toronto Waterfront projects:

- a. \$1.5 million for Etobicoke Waterfront projects including Humber Bay Park and Mimico Park Trail enhancements;
- b. \$1.5 million for Scarborough Waterfront projects including the Scarborough Bluffs Waterfront Trail Environmental Assessment; and
- c. \$ 1.5 million for Toronto Waterfront projects including Tommy Thompson Park enhancements.

Funding for these projects has not been provided in the 10-Year Recommended Capital Plan. Toronto Water is awaiting an update from TRCA, which is in process of reviewing the scope for the above noted projects.

Tree Canopy Reserve

During the 2015 Budget Process, City Council authorized the creation of a Tree Canopy Reserve Fund to help achieve City's forest canopy targets, and directed that funding in the amount of \$1.0 million be provided from the Stabilization Reserve. A separate Administrative Report on Reserve and Reserve Funds will address this direction.



Appendices

Appendix 1

2015 Performance

2015 Key Accomplishments

In 2015, Toronto Water made significant progress on its on-going projects and/or accomplished the following:

Water Treatment & Supply

- ✓ Approximately 38 km of watermain replacement (\$58.0 million) and 58 km of structural watermain lining (\$36.0 million in 2015)
- ✓ Water service replacement (\$25 million)
- ✓ R.L. Clark Water Treatment Plant – Filter Rehabilitation (awarded in 2014)
- ✓ Gerrard St. transmission watermain - to be completed in 2015 (\$78.0 million)

Waste Water Collection and Treatment

- ✓ 17 km of sewer replacement (\$56.0 million) and 125 km of sewer rehabilitation (\$32.0 million in 2015)
- ✓ Ashbridges Bay Wastewater Treatment Plant on-going projects – P Building Upgrades, Fine Bubble Aeration (\$30.0 million in 2015)
- ✓ ABTP Ashbridges Bay Wastewater Treatment Plant – awarded engineering services for Integrated Pumping Station and Outfall
- ✓ Highland Creek Treatment Plant – Biosolids Upgrades, Odour Control Upgrades - (\$17.0 million in 2015)
- ✓ Humber River Wastewater Treatment Plant – Chlorine Facility Upgrades, New Substation, Gas Compressor Upgrades, Odour Control (\$41.0 million in 2015)

Stormwater Management

- ✓ Basement Flooding Protection Program (\$62.0 million in 2015)
- ✓ Wet Weather Flow Master Plan (\$40.0 million in 2015)

2015 Financial Performance

Table 9
2015 Budget Variance Analysis (In \$000's)

2015 Approved	As of Sept. 30, 2015		Projected Actuals at Year End		Unspent Balance	
	\$	% Spent	\$	% Spent	\$ Unspent	% Unspent
756,640	321,192	42.4%	623,191	82.4%	133,449	17.6%

* Based on 2015 Third Quarter Capital Variance Report

2015 Experience

For details of the variance explanations and year-end projections for Toronto Water, please refer to the 2015 Capital Variance Report for the nine months ended September 30, 2015 which will be submitted to the Budget Committee meeting on November 13, 2015.

Impact of the 2015 Capital Variance on the 2016 Recommended Budget

- As a result of delays in capital project implementation, as described in the 2015 Q3 Capital Variance Report, funding of \$48.798 million is being carried forward to the 2016 Recommended Capital Budget to continue the capital work.
- A detailed review of the 2016 – 2025 Recommended Capital Budget and Plan has been conducted and the necessary adjustments have been made to the timing of cash flow funding for unique and major multi-year, multi-million dollar capital projects such as the water and wastewater treatment plant upgrade projects, as well as linear infrastructure replacement and rehabilitation projects which could be the major contributors to annual under expenditures. By deferring the cash flow funding to future years, the 2016 Recommended Capital Budget reflects readiness to proceed and will assist Toronto Water in maintain its high rate of spending.

Appendix 2

Table 10
2016 Rec'd Capital Budget; 2017 to 2025 Rec'd Capital Plan (\$000s)

Project	Total Project Cost	Prior Year Carry Forward	2016	2017	2018	2019	2020	2016 - 2020	2021	2022	2023	2024	2025	2016 - 2025 Total
Health & Safety:														
OPERATIONAL SUPPORT		731	3,788	6,178	7,539	8,038	6,254	32,528	2,254	2,230	2,230	2,730	5,630	47,602
SWM TRCA FUNDING			4,171	4,275	4,382	4,491	4,604	21,923	4,719	4,837	4,958	5,082	5,209	46,728
Sub-Total		731	7,959	10,453	11,921	12,529	10,858	54,451	6,973	7,067	7,188	7,812	10,839	94,330
Legislated:														
BAYVIEW TRUNK WATERMAIN - PH2					400	100	400	900	4,000	4,000				8,900
CLARK RESIDUE MGMT. FACILITIES			200	994	425			1,619						1,619
D2/D4 TRUNK WATERMAIN UPGRADES							300	300	600	5,600	20,600	17,600	12,300	57,000
DIST WATER SERVICE REPAIR			48,250	41,506	40,796	34,242	36,880	201,674	37,070	37,265	34,170	34,335	34,335	378,849
HORGAN W.T.P. EXPANSION			109					109						109
SWM SOURCE CONTROL PROG			150	150	150			450						450
Sub-Total			48,709	42,650	41,771	34,342	37,580	205,052	41,670	46,865	54,770	51,935	46,635	446,927
State of Good Repair:														
ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEV			900	1,400	3,350	4,555	180	10,385	180	100	100	100	2,100	12,965
ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING			46,977	33,724	24,828	53,200	54,000	212,729	67,500	77,100	70,750	100,500	110,000	638,579
ASHBRIDGES BAY WWTP - O&M UPGRADES	1,901		7,517	9,532	4,980	3,167	3,200	30,297	3,200	3,200	3,200	3,200	3,200	46,297
ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING	863		5,537	19,517	30,468	34,710	17,710	108,805	17,158	15,110	284			141,357
ASHRIDGES BAY TP YR2005			1,918	4,955	2,335	237		9,445						9,445
AVENUE ROAD TRUNKMAIN REPLACEMENT			521	604				1,125						1,125
BASEMENT FLOODING RELIEF	3,440		67,754	114,074	166,008	179,958	180,313	711,547	184,117	189,090	188,440	188,440	180,194	1,641,828
BUSINESS IT PROJECTS			919	1,721	1,422	1,273	1,000	6,335	500					6,835
DIST SEWER REHAB OPS YR2005			4	3				7						7
DIST W/M REHABILITATION	1,027		53,460	63,866	66,418	64,337	65,322	314,430	69,150	69,638	71,118	70,838	70,243	665,417
DIST W/M REPLACEMENT	7,969		66,760	89,840	97,602	104,100	110,300	476,571	112,100	112,300	112,500	112,500	113,500	1,039,471
DOWNTOWN W/M ENHANCEMENT			715	5,312				6,027						6,027
ENGINEERING			48,689	56,844	51,025	55,935	60,259	272,752	52,632	52,148	48,281	53,635	55,023	534,471
EQUIPMENT REPLACEMENT & REHABILITATION			918	5,704	4,558	3,652		14,832						14,832
FJ HORGAN W.T.P. R&R	639		4,130	6,026	3,978	2,378	1,037	18,188	795	684	202	202	200	20,271
HARRIS W.T.P. R&R			13,330	20,493	11,056	2,280	1,850	49,009	1,200	11,150	11,500	11,500	12,550	96,909
HIGHLAND CREEK WWTP			7	27	6			40						40
HIGHLAND CREEK WWTP - BUILDING SERV & SITE DEV			3,500	3,500	4,000	1,742		12,742						12,742
HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING			1,125	3,781	5,340	41,600	50,655	102,501	45,000	250	250			148,001
HORGAN TRUNK MAIN EXPANSION				50	600	700	1,450	2,800	10,620	10,600	1,900	620	20	26,560
HUMBER TP YR2005			1,239	440	100	60		1,839						1,839
HUMBER WWTP - LIQUID TREATMENT & HANDLING			9,583	48,283	48,350	48,332	48,400	202,948	48,193	1,500	5,394	13,000	35,000	306,035
HUMBER WWTP - Q&M UPGRADES	1,307		6,706	3,320				11,333						11,333
HUMBER WWTP UPGRADES	1,107		10,253	15,966	9,542	6,202	1,528	44,598	2,023	6,325	11,925	3,575	1,425	69,871
ISLAND W.T.P. R&R	908		6,679	17,616	15,926	3,837	4,435	49,401	1,955	535	385	525	375	53,176
NORTH TORONTO WTP UPGRADES			207	1,205	2,295	1,100		4,807						4,807
RL CLARK W.T.P. R&R	944		9,430	22,470	12,850	1,624	210	47,528	150	150	150	150	150	48,278
SEWAGE PUMPING STATION UPGRADES	1,476		3,475	1,248	3,350	6,750	8,550	24,849	10,500	8,400	4,250	3,150	50	51,199
SEWER ASSET PLANNING	547		12,586	16,420	16,991	18,240	16,405	81,189	15,645	15,150	15,150	15,150	15,150	157,434
SEWER SYSTEM REHABILITATION	213		60,335	58,881	61,331	62,165	55,178	298,103	58,423	60,136	60,886	59,986	60,136	597,670
STREAM RESTORATION & EROSION CONTROL			6,444	10,588	12,210	11,530	4,700	45,472	2,250	9,810	15,910	15,180	15,680	104,302
SWM END OF PIPE FACILITIES	4,154		7,854	4,000	7,440	5,730	2,030	31,208	3,330	7,200	30,600	64,800	76,660	213,798
TRANSMISSION OPERATIONS OPTIMIZER			2					2						2
TRANSMISSION R&R	4,827		21,018	44,690	29,180	20,088	21,830	141,633	23,661	11,600	16,910	21,200	25,050	240,054
TRUNK WATERMAIN			2,754	6,004	3,210	2,250	2,200	16,418	5,200	5,000	5,000	5,000	5,000	41,618
W&WW LABORATORIES			292	188	207	358	209	1,254	458	356	210	210	21,110	23,598
WESTERN BEACHES RETROFIT			920	3,271	3,092	1,057	15	8,355	86					8,441
Sub-Total		31,843	484,541	694,959	704,048	743,147	712,966	3,371,504	736,026	667,532	675,295	743,461	802,816	6,996,634
Service Improvements:														
ASHBRIDGES BAY WWTP			464	1,278				1,742						1,742
ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM			7,510	51,440	65,700	125,960	120,167	370,777	95,623	65,000	33,660	269		565,329
ASHBRIDGES BAY WWTP - ODOUR CONTROL			9,164	8,234	122			17,520						17,520
ASHBRIDGES BAY WWTP REHAB	974		17,886	20,757	26,521	28,751	31,543	126,432	34,992	33,708	14,904	11,550	11,690	233,276
BUSINESS SYSTEM INFRASTRUCTURE - PW	129		9,432	8,913	9,007	9,447	6,437	43,365	4,371	2,664	2,734	2,769	2,714	58,617
DISTRICT WATERMANS - NEW			50	500	500	500	500	2,050	500	500	500	500	500	4,550
DON & WATERFRONT TRUNK CSO			9,686	7,095	5,338	28,180	51,180	101,479	51,180	59,307	108,141	80,988	120,500	521,595
EMERY CREEK POND	3,837		7,380	5,793	50			17,060						17,060
ENGINEERING STUDIES			1,269	1,480	1,165	155	55	4,124	50	50	50	50	50	4,374
HIGHLAND CREEK WWTP - ODOUR CONTROL			19,002	16,000	16,020	6,122	500	57,644	1,005	6,500	11,300	10,550	5,350	92,349
HUMBER T.P.			205	201	109			515						515
HUMBER WWTP - ODOUR CONTROL	1,758		9,992	3,385				15,135						15,135
ISLAND PLANT WINTERIZATION			404					404						404
METERING & METER READING SYS			8,299	6,980	2,000	915	545	18,739						18,739
PW ENGINEERING			3,468	7,666	7,129	3,730	3,300	25,293	2,000	1,900	1,400	1,400	1,400	33,393
REGENT PARK CAPITAL CONTRIBUTION			2,356	596	1,391	812	44	5,199	71	40				5,310
SEWER REPLACEMENT PROGRAM	599		19,318	32,870	46,692	46,686	42,050	188,215	47,050	47,000	47,000	47,000	47,000	423,265
SWITCH GEAR TRANSFORMER			4,300	3,125				7,425						7,425
TRUNK WATERMAIN EXPANSION	50		600	3,604	12,450	12,173	3,021	31,898						31,898
WATER EFFICIENCY PROGRAM			520	520	520	520	520	2,600	520	520	520	520	520	5,200
WATER STORAGE EXPANSION			135	18				153						153
WATER SUSTAINABILITY PROGRAM			10,697	19,756	4,364	5,169	1,815	41,801	15					41,816
WET WEATHER FLOW MP	961		10,304	17,057	17,970	16,550	15,800	78,642	13,800	15,680	14,130	8,850	10,350	141,452
WTS&S PLANTWIDE			1,700	1,550	6,525	11,645	27,025	48,445	21,820	26,905	15,315	22,760	30,900	166,145
YARD & BUILDING RENOVATION			2	2	2			6						6
Sub-Total		8,308	154,143	218,820	223,575	297,315	304,502	1,206,663	272,997	259,774	249,654	187,206	230,974	2,407,268

Table 10
2016 Rec'd Capital Budget; 2017 to 2025 Rec'd Capital Plan (\$'000s) – (Continued)

Project	Total Project Cost	Prior Year Carry Forward	2016	2017	2018	2019	2020	2016 - 2020	2021	2022	2023	2024	2025	2016 - 2025 Total
Growth Related:														
GEORGETOWN SOUTH CITY INFRASTRUCTURE UPGRADES			5,680	5,680	5,680	5,680		22,720						22,720
HIGHLAND CREEK WWTP UPGRADES	86	25,445	44,048	30,195	33,496	29,463	162,733	52,040	44,385	34,050	33,230	14,750		341,188
LAND ACQUISITION FOR SOURCE WATER PROTECT	1,605	7,000	8,085	8,000	9,500	9,500	43,690	9,500	9,500	11,000	11,000	11,000		95,690
LAWRENCE ALLAN REVITALIZATION PLAN	3,100	4,813	6,765	13,272	5,506		33,456							33,456
NEW SERVICE CONNECTIONS		27,100	27,000	12,601	27,254	27,411	121,366	27,574	27,741	27,913	28,091	28,273		260,958
NEW SEWER CONSTRUCTION		61	1,950	3,000	5,500	1,000	11,511	9,000	9,000	9,000	9,000	9,000		56,511
TRUNK SEWER SYSTEM	3,125	34,832	29,827	32,440	33,781	30,879	164,884	34,110	35,100	46,100	58,100	61,100		399,394
Sub-Total		7,916	104,931	123,355	105,188	120,717	98,253	560,360	132,224	125,726	128,063	139,421	124,123	1,209,917
Total		48,798	800,283	1,090,237	1,086,503	1,208,050	1,164,159	5,398,030	1,189,890	1,106,964	1,114,970	1,129,835	1,215,387	11,155,076

Appendix 3

2016 Rec'd Capital Budget; 2017 to 2025 Rec'd Capital Plan

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program

Sub- Priority	Project No. SubProj No.	Project Name Sub-project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAT000004 HORGAN W.T.P. EXPANSION																								
0	5	PLANT EXPANSION - CONSTRUCTION	CW	S2	05	472	0	0	0	0	472	0	472	0	0	151	0	170	0	0	151	0	0	472
0	18	SUPERNATANT AND FORCEMAIN INSTALLATION	CW	S2	05	4,500	0	0	0	0	4,500	0	4,500	0	0	1,438	0	3,062	0	0	0	0	0	4,500
0	35	PLANT EXPANSION - CONSTRUCTION-2016 SC	CW	S3	05	-413	0	0	0	0	-413	0	-413	0	0	-131	0	-150	0	0	-132	0	0	-413
0	36	SUPERNATANT & FORCEMAIN-2016 SC	CW	S3	05	-4,500	0	0	0	0	-4,500	0	-4,500	0	0	-1,438	0	-3,062	0	0	0	0	0	-4,500
0	37	PLANT EXPANSION - DESIGN & CONSTR ADMIN - 2016 SC	CW	S3	05	50	0	0	0	0	50	0	50	0	0	16	0	18	0	0	16	0	0	50
Sub-total						109	0	0	0	0	109	0	109	0	0	36	0	38	0	0	35	0	0	109
WAT000014 WATER STORAGE EXPANSION																								
0	50	MILLIKEN PS & RESERVOIR-DESIGN&CONT ADMIN-2016	CW	S3	05	130	0	0	0	0	130	0	130	0	0	52	0	31	0	0	47	0	0	130
0	51	DUFFERIN RES.EXT-DESIGN AND CONT. ADMIN - 2016 SC	CW	S3	05	5	18	0	0	0	23	0	23	0	0	14	0	9	0	0	0	0	0	23
Sub-total						135	18	0	0	0	153	0	153	0	0	66	0	40	0	0	47	0	0	153
WAT000018 CLARK RESIDUE MGMT. FACILITIES																								
0	24	RESIDUALS RETROFITS & UPGRADES	CW	S2	02	950	0	0	0	0	950	0	950	0	0	0	0	950	0	0	0	0	0	950
0	28	RESIDUALS RETROFITS AND UPGRADES-2016 SC	CW	S3	02	-750	994	425	0	0	669	0	669	0	0	0	0	669	0	0	0	0	0	669
Sub-total						200	994	425	0	0	1,619	0	1,619	0	0	0	0	1,619	0	0	0	0	0	1,619
WAT000021 WATER EFFICIENCY PROGRAM																								
0	10	ICI INDOOR WATER AUDIT	CW	S2	05	300	300	0	0	0	600	0	600	0	0	600	0	0	0	0	0	0	0	600
0	11	PUBLIC EDUCATION & PROMOTIONS	CW	S2	05	150	150	0	0	0	300	0	300	0	0	300	0	0	0	0	0	0	0	300
0	12	ANCILLARY COSTS	CW	S2	05	70	70	0	0	0	140	0	140	0	0	140	0	0	0	0	0	0	0	140
0	82	WATER EFFICIENCY FUTURE YEAR	CW	S6	05	0	0	520	520	520	1,560	2,600	4,160	0	0	4,160	0	0	0	0	0	0	0	4,160
Sub-total						520	520	520	520	520	2,600	2,600	5,200	0	0	5,200	0	0	0	0	0	0	0	5,200
WAT000340 ISLAND PLANT WINTERIZATION																								
0	1	PLANT WINTERIZATION & SUMMERIZATION	CW	S2	04	515	0	0	0	0	515	0	515	0	0	0	0	515	0	0	0	0	0	515
0	15	PLANT WINTERIZATION & SUMMERIZATION-2016 SC	CW	S3	04	-111	0	0	0	0	-111	0	-111	0	0	0	0	-111	0	0	0	0	0	-111
Sub-total						404	0	0	0	0	404	0	404	0	0	0	0	404	0	0	0	0	0	404
WAT000363 ENGINEERING STUDIES																								

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAT000363 ENGINEERING STUDIES																							
0 2	IMPROVED TREATMENT STUDIES	CW	S2	04	207	50	0	0	0	257	0	257	0	0	0	0	257	0	0	0	0	0	257
0 18	CONTROLLED SUBSTANCES ID AND ABATEMENT	CW	S2	02	68	70	60	0	0	198	0	198	0	0	0	0	198	0	0	0	0	0	198
0 31	ENERGY EFFICIENCY IMPLEMENTATION	CW	S2	04	100	0	0	0	0	100	0	100	0	0	0	0	100	0	0	0	0	0	100
0 38	CORROSION CONTROL	CW	S2	02	404	0	0	0	0	404	0	404	0	0	25	0	379	0	0	0	0	0	404
0 64	IMPROVED TREATMENT STUDIES-2016 SC	CW	S3	04	160	210	0	0	0	370	0	370	0	0	0	0	182	0	0	188	0	0	370
0 65	SCRUBBER AND TONNER CONNECTION IMPROVEMENTS	CW	S4	04	100	915	730	105	5	1,855	0	1,855	0	0	0	0	1,855	0	0	0	0	0	1,855
0 68	CONTROLLED SUBSTANCES ID AND ABATEMENT-2016 SC	CW	S3	02	132	130	140	0	0	402	0	402	0	0	0	0	402	0	0	0	0	0	402
0 69	ENERGY EFFICIENCY IMPLEMENTATION-2016 SC	CW	S3	04	-95	105	125	0	0	135	0	135	0	0	0	0	135	0	0	0	0	0	135
0 70	FACILITY FORECAST/SOGR FUNDING	CW	S6	03	0	0	110	50	50	210	250	460	0	0	0	0	460	0	0	0	0	0	460
0 71	CORROSION CONTROL-2016 SC	CW	S3	02	193	0	0	0	0	193	0	193	0	0	12	0	181	0	0	0	0	0	193
Sub-total					1,269	1,480	1,165	155	55	4,124	250	4,374	0	0	37	0	4,149	0	0	188	0	0	4,374
WAT906334 BUSINESS SYSTEM INFRASTRUCTURE - PW																							
0 7	NETWORK EQUIPMENT REPLACEMENT	CW	S2	03	38	0	0	0	0	38	0	38	0	0	0	0	38	0	0	0	0	0	38
0 8	NETWORK CABLE LIFECYCLE REPLACEMENT	CW	S2	03	1,834	2,050	1,500	0	0	5,384	0	5,384	0	0	0	0	5,384	0	0	0	0	0	5,384
0 9	TRUNK RADIO SYSTEM	CW	S2	04	200	100	250	750	250	1,550	280	1,830	0	0	0	0	1,830	0	0	0	0	0	1,830
0 12	PCS LEGACY ALARM IMPROVEMENT	CW	S2	04	600	0	0	0	0	600	0	600	0	0	0	0	600	0	0	0	0	0	600
0 23	RELIABILITY IMPROVEMENT PROGRAM	CW	S2	04	885	0	0	0	0	885	0	885	0	0	0	0	885	0	0	0	0	0	885
0 41	BUSINESS & TECH IMPROVEMENT - PHASE 2	CW	S2	04	3,364	4,405	5,710	6,715	3,900	24,094	3,660	27,754	0	0	0	0	27,754	0	0	0	0	0	27,754
0 42	PCS UPGRADES FOR WATER SUPPLY	CW	S2	04	1,284	219	0	0	0	1,503	0	1,503	0	0	0	0	1,503	0	0	0	0	0	1,503
0 43	NETWORK EQUIPMENT REPLACEMENT - 10 YEAR PLAN	CW	S6	04	0	0	257	407	407	1,071	7,722	8,793	0	0	0	0	8,793	0	0	0	0	0	8,793
0 61	RELIABILITY IMPROVEMENT PROGRAM - FUTURE YEARS	CW	S6	04	0	0	0	200	200	400	1,000	1,400	0	0	0	0	1,400	0	0	0	0	0	1,400
0 67	SCADA UPGRADES FOR WWT - II	CW	S2	04	415	400	600	350	0	1,765	0	1,765	0	0	0	0	1,765	0	0	0	0	0	1,765
0 76	NETWORK EQUIPMENT LIFE CYCLE REPLACEMENT-2016 SC	CW	S3	03	3	0	0	0	0	3	0	3	0	0	0	0	3	0	0	0	0	0	3
0 77	SCADA UPGRADES FOR WWT-2016 SC	CW	S3	04	0	292	50	445	300	1,087	-3,500	-2,413	0	0	0	0	-2,413	0	0	0	0	0	-2,413

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
WAT906334 BUSINESS SYSTEM INFRASTRUCTURE - PW																							
0	78	NETWORK CABLE LIFE CYCLE REPLACEMENT-2016 SC	CW	S3	03	-1,739	-2,050	-1,500	0	0	-5,289	0	-5,289	0	0	0	0	0	0	0	-5,289		
0	79	RELIABILITY IMPROVEMENT PROGRAM-2016 SC	CW	S3	04	-305	585	400	0	0	680	0	680	0	0	0	0	0	0	0	680		
0	80	PCS LEGACY ALARM IMPROVEMENT -2016 SC	CW	S3	04	-200	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	81	PCS UPGRADES FOR WATER SUPPLY-2016 SC	CW	S3	04	188	-187	0	0	0	1	0	1	0	0	0	0	0	0	0	1		
0	82	SCADA UPGRADES FOR WWT - II -2016 SC	CW	S3	04	1,222	1,126	0	100	400	2,848	0	2,848	0	0	0	0	0	0	0	2,848		
0	83	NETWORK IMPROVEMENTS - 10 YEAR	CW	S6	04	0	0	1,650	1,230	1,230	4,110	6,370	10,480	0	0	0	0	0	0	0	0	10,480	
0	84	TRUNK RADIO SYSTEM-2016 SC	CW	S3	04	-170	300	-250	-750	-250	-1,120	-280	-1,400	0	0	0	0	0	0	0	0	-1,400	
0	85	NETWORK IMPROVEMENTS	CW	S4	04	1,813	1,473	340	0	0	3,626	0	3,626	0	0	0	0	0	0	0	3,626		
Sub-total						9,432	8,913	9,007	9,447	6,437	43,236	15,252	58,488	0	0	0	0	58,488	0	0	0	0	58,488
WAT906340 METERING & METER READING SYS																							
0	2	AUTOMATED METER READING SYSTEM	CW	S2	04	30,367	2,515	0	0	0	32,882	0	32,882	0	0	0	0	0	0	0	32,882		
0	17	AUTOMATED METER READING SYSTEM-2016 SC	CW	S3	04	-22,068	4,465	2,000	915	545	-14,143	0	-14,143	0	0	0	0	0	0	0	0	-14,143	
Sub-total						8,299	6,980	2,000	915	545	18,739	0	18,739	0	0	0	0	0	0	0	0	0	18,739
WAT906467 AVENUE ROAD TRUNKMAIN REPLACEMENT																							
0	2	AVENUE RD WM CONSTRUCTION - HI LEVEL TO LAWRENCE	CW	S2	03	1,000	0	0	0	0	1,000	0	1,000	0	0	504	0	309	0	0	187	0	1,000
0	6	JOS-AVENUE RD WM ENG-HI LEVEL-LAWRENCE	CW	S2	03	90	0	0	0	0	90	0	90	0	0	45	0	28	0	0	17	0	90
0	27	JOS-AVENUEWM ENG - HI LEVEL TO LAWRENCE-2016 SC	CW	S3	03	35	0	0	0	0	35	0	35	0	0	18	0	10	0	0	7	0	35
0	28	AVENUE RD WM CONS - HI LEVEL TO LAWRENCE - 2016 SC	CW	S3	03	-521	0	0	0	0	-521	0	-521	0	0	-263	0	-161	0	0	-97	0	-521
Sub-total						604	0	0	0	0	604	0	604	0	0	304	0	186	0	0	114	0	604
WAT906468 HORGAN TRUNK MAIN EXPANSION																							
0	1	JOS - HORGAN TO ELLESMERE WM - ENGINEERING	CW	S2	05	1,100	900	600	50	50	2,700	0	2,700	0	0	1,025	0	799	0	0	876	0	2,700
0	3	JOS - HORGAN TO ELLESMERE WM - CONSTRUCTION	CW	S2	05	5,000	30,000	26,000	2,000	0	63,000	0	63,000	0	0	23,911	0	18,639	0	0	20,450	0	63,000
0	44	DOWNSVIEW MAIN-KEELE PS TO DOWNSVIEW CONS	CW	S6	05	0	0	0	0	1,000	1,000	22,000	23,000	0	0	8,731	0	14,269	0	0	0	0	23,000
0	49	JOS - HORGAN TO ELLESMERE WM - ENG - 2016 SC	CW	S3	05	-1,100	-900	-600	-50	-50	-2,700	0	-2,700	0	0	-1,025	0	-799	0	0	-876	0	-2,700
0	50	JOS - HORGAN TO ELLESMERE WM - CONS-2016 SC	CW	S3	05	-5,000	-30,000	-26,000	-2,000	0	-63,000	0	-63,000	0	0	-23,911	0	-18,639	0	0	-20,450	0	-63,000

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program

Sub- Project No. Project Name Priority/SubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAT906483 PW ENGINEERING																								
0	62	WATER LOSS REDUCTION STRATEGY-2016 SC	CW	S3	03	-363	-800	338	0	1,000	175	0	175	0	0	0	0	175	0	0	0	0	0	175
0	63	EASEMENT ACQUISITION-2016 SC	CW	S3	04	200	500	0	0	0	700	0	700	0	0	0	0	700	0	0	0	0	0	700
Sub-total						3,468	7,666	7,129	3,730	3,300	25,293	8,100	33,393	0	0	4,385	0	27,002	0	0	2,006	0	0	33,393
WAT906749 DOWNTOWN W/M ENHANCEMENT																								
0	1	JOS - GERRARD ST WM - ENGINEERING	CW	S2	03	15	7	0	0	0	22	0	22	0	0	4	0	2	0	0	16	0	0	22
0	4	JOS - GERRARD ST WM - CONSTRUCTION	CW	S2	03	7,806	0	0	0	0	7,806	0	7,806	0	0	1,554	0	283	0	0	5,969	0	0	7,806
0	42	JOS - GERRARD ST WM - CONSTRUCTION -2016 SC	CW	S3	03	-7,161	5,300	0	0	0	-1,861	0	-1,861	0	0	-371	0	-67	0	0	-1,423	0	0	-1,861
0	43	JOS - GERRARD ST WM - ENGINEERING-2016 SC	CW	S3	03	55	5	0	0	0	60	0	60	0	0	11	0	3	0	0	46	0	0	60
Sub-total						715	5,312	0	0	0	6,027	0	6,027	0	0	1,198	0	221	0	0	4,608	0	0	6,027
WAT906752 TRANSMISSION R&R																								
0	49	TRUNK WATERMAIN REHAB	CW	S2	03	545	0	0	0	0	545	0	545	0	0	0	0	545	0	0	0	0	0	545
0	50	10 YR TRUNK WATERMAIN REHAB	CW	S6	03	0	0	0	250	250	500	1,250	1,750	0	0	0	0	1,750	0	0	0	0	0	1,750
0	51	CAST IRON TRUNK REPLC - PHASE 2	CW	S2	03	9,405	2,420	113	30	0	11,968	0	11,968	0	0	0	0	11,968	0	0	0	0	0	11,968
0	52	CAST IRON TRUNK REPLC - PHASE 3 - ENGINEERING	CW	S2	03	1,300	1,000	125	75	0	2,500	0	2,500	0	0	0	0	2,500	0	0	0	0	0	2,500
0	58	CAST IRON TRUNK REPLC - PHASE 3 - CONSTRUCTION	CW	S4	03	2,000	3,500	2,650	0	0	8,150	0	8,150	0	0	0	0	8,150	0	0	0	0	0	8,150
0	71	TRUNK WATERMAIN REHAB-2016 SC	CW	S3	03	-295	250	250	0	0	205	0	205	0	0	0	0	205	0	0	0	0	0	205
0	72	CAST IRON TRUNK REPLC - PHASE 3 - ENG-2016 SC	CW	S3	03	0	47	-41	-61	0	-55	0	-55	0	0	0	0	-55	0	0	0	0	0	-55
0	73	CAST IRON TRUNK REPLC - PHASE 2-2016 SC	CW	S3	03	0	5,337	247	72	69	5,725	0	5,725	0	0	0	0	5,725	0	0	0	0	0	5,725
Sub-total						12,955	12,554	3,344	366	319	29,538	1,250	30,788	0	0	0	0	30,788	0	0	0	0	0	30,788
WAT906900 TRANSMISSION R&R																								
0	1	TRANS FACILITIES REHAB	CW	S2	03	475	135	25	0	0	635	0	635	0	0	0	0	635	0	0	0	0	0	635
0	6	ELLESMERE P.S. UPGRADE	CW	S2	05	25	525	0	0	0	550	0	550	0	0	127	0	75	0	0	348	0	0	550
0	7	RESERVOIR REHAB - FUTURE	CW	S6	03	0	0	0	6,000	10,300	16,300	37,850	54,150	0	0	0	0	54,150	0	0	0	0	0	54,150
0	26	SCARBOROUGH PS - PUMP REPLC	CW	S2	03	534	0	0	0	0	534	0	534	0	0	0	0	534	0	0	0	0	0	534
0	27	EGLINTON PS -PUMP REPLC	CW	S2	03	44	0	0	0	0	44	0	44	0	0	0	0	44	0	0	0	0	0	44

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAT906902	HARRIS W.T.P. R&R																						
0 2	BUILDING ENVELOPE REHAB	CW	S2	03	13	0	0	0	0	13	0	13	0	0	0	0	13	0	0	0	0	0	13
0 3	FACILITY & PROCESS UPGRADES	CW	S2	03	500	500	0	0	0	1,000	0	1,000	0	0	0	0	1,000	0	0	0	0	0	1,000
0 21	HVAC REHAB - CONSTRUCTION	CW	S2	03	1,220	1,000	580	0	0	2,800	0	2,800	0	0	0	0	2,800	0	0	0	0	0	2,800
0 29	HARRIS FILTERS REHABILITATION - PILOT	CW	S2	03	3,600	775	25	0	0	4,400	0	4,400	0	0	0	0	4,400	0	0	0	0	0	4,400
0 56	REHAB OF SETTLING BASIN ROOF & SLUICE GATES	CW	S2	03	12,609	8,110	2,103	7	0	22,829	0	22,829	0	0	0	0	22,829	0	0	0	0	0	22,829
0 70	FILTER MEDIA UPGRADE - FUTURE	CW	S6	03	0	0	150	0	150	300	150	450	0	0	0	0	450	0	0	0	0	0	450
0 71	FACILITY & PROCESS UPGRADES - FUTURE	CW	S6	03	0	0	500	500	500	1,500	2,500	4,000	0	0	0	0	4,000	0	0	0	0	0	4,000
0 78	ENERGY OPTIMIZATION	CW	S6	04	0	200	1,000	1,000	0	2,200	0	2,200	0	0	0	0	2,200	0	0	0	0	0	2,200
0 79	EXTERIOR SECURITY LIGHTING UPGRADES	CW	S2	03	950	50	0	0	0	1,000	0	1,000	0	0	0	0	1,000	0	0	0	0	0	1,000
0 80	FACILITY INFRASTRUCTURE REHAB	CW	S6	03	0	1,000	1,000	0	0	2,000	0	2,000	0	0	0	0	2,000	0	0	0	0	0	2,000
0 81	LIQUID CHEMICAL SYSTEM IMPROVEMENTS	CW	S2	04	320	200	0	0	0	520	0	520	0	0	0	0	520	0	0	0	0	0	520
0 82	PD2 OPTIMIZATION	CW	S2	03	90	0	0	0	0	90	0	90	0	0	0	0	90	0	0	0	0	0	90
0 85	HARRIS FILTERS REHABILITATION	CW	S6	03	0	0	0	0	450	450	45,050	45,500	0	0	0	0	45,500	0	0	0	0	0	45,500
0 92	HARRIS DISINFECTION MODIFICATIONS	CW	S2	04	250	1,500	3,500	3,500	0	8,750	0	8,750	0	0	532	0	8,218	0	0	0	0	0	8,750
0 93	LIQUID CHEMICAL SYSTEM RELOCATION	CW	S2	04	20	0	0	0	0	20	0	20	0	0	0	0	20	0	0	0	0	0	20
0 95	HARRIS FILTERS REHABILITATION - PILOT-2016 SC	CW	S3	03	-3,250	2,665	697	0	0	112	0	112	0	0	0	0	112	0	0	0	0	0	112
0 96	LIQUID CHEMICAL SYSTEM IMPROVEMENTS-2016 SC	CW	S3	04	-113	1,201	1,148	7	0	2,243	0	2,243	0	0	0	0	2,243	0	0	0	0	0	2,243
0 97	PD2 OPTIMIZATION-2016 SC	CW	S3	03	-90	0	0	0	0	-90	0	-90	0	0	0	0	-90	0	0	0	0	0	-90
0 98	HERITAGE MASONRY AND ARCHITECTURAL RESTORATION	CW	S4	03	200	200	200	200	200	1,000	200	1,200	0	0	0	0	1,200	0	0	0	0	0	1,200
0 99	CONTROL ROOM RELOCATION	CW	S4	04	75	525	0	0	0	600	0	600	0	0	0	0	600	0	0	0	0	0	600
0 100	EMERGENCY STANDBY POWER	CW	S4	04	150	850	5	0	0	1,005	0	1,005	0	0	0	0	1,005	0	0	0	0	0	1,005
0 102	PHONE SYSTEM UPGRADE	CW	S4	03	70	510	0	0	0	580	0	580	0	0	0	0	580	0	0	0	0	0	580
0 103	REHAB OF SETTLING BASIN ROOF&SLUICE GATES-2016 SC	CW	S3	03	-2,209	1,290	3,281	16	0	2,378	0	2,378	0	0	0	0	2,378	0	0	0	0	0	2,378
0 104	EXTERIOR SECURITY LIGHTING UPGRADES-2016 SC	CW	S3	03	-950	-50	100	550	550	200	0	200	0	0	0	0	200	0	0	0	0	0	200

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAT906902 HARRIS W.T.P. R&R</u>																									
0	105	HARRIS DISINFECTION MODIFICATIONS-2016 SC	CW	S3	04	-250	-1,500	-3,500	-3,500	0	-8,750	0	-8,750	0	0	-532	0	-8,218	0	0	0	0	0	-8,750	
0	106	BUILDING ENVELOPE REHAB-2016 SC	CW	S3	03	113	0	0	0	0	113	0	113	0	0	0	0	113	0	0	0	0	0	113	
0	107	HVAC REHAB CONSTRUCTION-2016 SC	CW	S3	03	-738	1,467	267	0	0	996	0	996	0	0	0	0	996	0	0	0	0	0	996	
0	108	TRAVELLING 3 & 5 UPGRADE	CW	S4	03	750	0	0	0	0	750	0	750	0	0	0	0	750	0	0	0	0	0	750	
Sub-total						13,330	20,493	11,056	2,280	1,850	49,009	47,900	96,909	0	0	0	0	96,909	0	0	0	0	0	96,909	
<u>WAT906903 FJ HORGAN W.T.P. R&R</u>																									
0	5	FACILITY & PROCESS UPGRADES	CW	S2	03	1,160	300	0	0	0	1,460	0	1,460	0	0	0	0	1,460	0	0	0	0	0	1,460	
0	15	REPLACEMENT OF MCCS	CW	S2	03	2,290	2,233	1,100	320	149	6,092	0	6,092	0	0	0	0	6,092	0	0	0	0	0	6,092	
0	16	ZEBRA MUSSEL CONTROL SYSTEM REPLACEMENT	CW	S2	03	500	2,500	1,950	0	0	4,950	0	4,950	0	0	0	0	4,950	0	0	0	0	0	4,950	
0	28	FACILITY & PROCESS UPGRADES - FUTURE	CW	S6	03	0	0	200	200	200	600	1,000	1,600	0	0	0	0	1,600	0	0	0	0	0	1,600	
0	31	BUILDING FIRE, HVAC, LIGHTING UPGRADES	CW	S4	04	75	855	1,375	1,825	10	4,140	10	4,150	0	0	0	0	4,150	0	0	0	0	0	4,150	
0	32	ELEC GROUNDING SYSTEM & BULK CHEM UNLOADING IMPRO	CW	S2	04	700	0	0	0	0	700	0	700	0	0	0	0	700	0	0	0	0	0	700	
0	33	OFFICE RENOVATION	CW	S6	03	0	0	0	100	675	775	1,054	1,829	0	0	0	0	1,829	0	0	0	0	0	1,829	
0	34	TREATED WATER PUMP UPGRADES	CW	S2	04	1,850	550	0	0	0	2,400	0	2,400	0	0	0	0	2,400	0	0	0	0	0	2,400	
0	46	OFFSHORE CHLORINATION RELOCATION-2016 SC	CW	S3	03	-500	-2,500	-1,950	0	0	-4,950	0	-4,950	0	0	0	0	-4,950	0	0	0	0	0	-4,950	
0	47	FACILITY & PROCESS UPGRADES-2016 SC	CW	S3	03	0	216	0	0	0	216	0	216	0	0	0	0	216	0	0	0	0	0	216	
0	48	TREATED WATER PUMP UPGRADES-2016 SC	CW	S3	04	-550	1,340	0	0	0	790	0	790	0	0	0	0	790	0	0	0	0	0	790	
0	49	ELEC GROUNDING SYSTEM&BULK CHEM UNLOADING-2016SC	CW	S3	04	-365	500	3	3	0	141	0	141	0	0	0	0	141	0	0	0	0	0	141	
0	51	ACCESS ROAD REPAVING-2016 SC	CW	S3	03	200	0	0	0	0	200	0	200	0	0	0	0	200	0	0	0	0	0	200	
0	52	REPLACEMENT OF MCCS-2016 SC	CW	S3	03	-1,230	32	1,300	-70	3	35	19	54	0	0	0	0	54	0	0	0	0	0	54	
Sub-total						4,130	6,026	3,978	2,378	1,037	17,549	2,083	19,632	0	0	0	0	19,632	0	0	0	0	0	19,632	
<u>WAT906906 TRUNK WATERMAIN EXPANSION</u>																									
0	25	JOS WM SCAR PS TO ST CLAIR AND MIDLAND - ENG	CW	S2	05	600	700	400	50	50	1,800	0	1,800	0	0	862	0	530	0	0	408	0	0	1,800	
0	67	JOS -WM Scar PS to St. Clair&Midland (ENG)-2016 SC	CW	S3	05	0	-96	50	123	-29	48	0	48	0	0	23	0	14	0	0	11	0	0	48	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By									
					2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAT906906 TRUNK WATERMAIN EXPANSION																							
0 68	JOS -WM Scar PS to St. Clair and Midland (CONST)	CW	S6	05	0	3,000	12,000	12,000	3,000	30,000	0	30,000	0	0	14,372	0	8,812	0	0	6,816	0	0	30,000
Sub-total					600	3,604	12,450	12,173	3,021	31,848	0	31,848	0	0	15,257	0	9,356	0	0	7,235	0	0	31,848
WAT906914 SWITCH GEAR TRANSFORMER																							
0 13	INDOOR/OUTDOOR SWITCHGEAR (PHASE 3)	CW	S2	03	5,400	3,703	0	0	0	9,103	0	9,103	0	0	0	0	9,103	0	0	0	0	0	9,103
0 28	INDOOR/OUTDOOR SWITCHGEAR (PHASE 3)-2016 SC	CW	S3	03	-1,100	-578	0	0	0	-1,678	0	-1,678	0	0	0	0	-1,678	0	0	0	0	0	-1,678
Sub-total					4,300	3,125	0	0	0	7,425	0	7,425	0	0	0	0	7,425	0	0	0	0	0	7,425
WAT906917 TRANSMISSION OPERATIONS OPTIMIZER																							
0 11	TRANSMISSION OPERATIONS OPTIMIZER - 2016 SC	CW	S3	04	2	0	0	0	0	2	0	2	0	0	0	0	1	0	0	1	0	0	2
Sub-total					2	0	0	0	0	2	0	2	0	0	0	0	1	0	0	1	0	0	2
WAT906918 WATER SUSTAINABILITY PROGRAM																							
0 1	WATER SUSTAINABILITY PROGRAM	CW	S2	04	13,307	7,205	20	2	0	20,534	0	20,534	0	0	1,248	0	19,286	0	0	0	0	0	20,534
0 12	STANDBY POWER - ROSEHILL	CW	S2	04	4,850	4,800	0	0	0	9,650	0	9,650	0	0	0	0	9,650	0	0	0	0	0	9,650
0 17	WATER SUSTAINABILITY PROG STANDBY POWER-2016 SC	CW	S3	04	-3,007	9,207	0	0	0	6,200	0	6,200	0	0	377	0	-2,225	0	0	8,048	0	0	6,200
0 18	STANDBY POWER - ROSEHILL-2016 SC	CW	S3	04	-4,453	-1,456	4,344	5,167	1,815	5,417	15	5,432	0	0	906	0	1	0	0	4,525	0	0	5,432
Sub-total					10,697	19,756	4,364	5,169	1,815	41,801	15	41,816	0	0	2,531	0	26,712	0	0	12,573	0	0	41,816
WAT906919 RL CLARK W.T.P. R&R																							
0 1	FACILITY & PROCESS UPGRADES	CW	S2	03	215	150	0	0	0	365	0	365	0	0	0	0	365	0	0	0	0	0	365
0 8	PROCESS EQUIPMENT UPGRADE ENGINEERING	CW	S2	03	1,275	1,037	1,225	25	0	3,562	0	3,562	0	0	217	0	3,345	0	0	0	0	0	3,562
0 12	FACILITY & PROCESS UPGRADES - FUTURE	CW	S6	03	0	0	0	150	150	300	750	1,050	0	0	0	0	1,050	0	0	0	0	0	1,050
0 15	PROCESS EQUIPMENT UPGRADE CONSTRUCTION	CW	S2	03	7,800	21,000	12,215	0	0	41,015	0	41,015	0	0	2,495	0	38,520	0	0	0	0	0	41,015
0 44	EVALUATION & COMMUNICATION SYSTEMS	CW	S2	03	600	25	5	0	0	630	0	630	0	0	0	0	630	0	0	0	0	0	630
0 64	PROCESS EQUIPMENT UPGRADE CONSTRUCTION-2016 SC	CW	S3	03	0	0	0	82	0	82	0	82	0	0	4	0	78	0	0	0	0	0	82
0 65	PROCESS EQUIPMENT UPGRADE ENGINEERING-2016 SC	CW	S3	03	-395	-25	-745	1,367	60	262	0	262	0	0	17	0	245	0	0	0	0	0	262
0 66	EVAUATION AND COMMUNICATION SYSTEMS-2016 SC	CW	S3	03	0	283	0	0	0	283	0	283	0	0	0	0	283	0	0	0	0	0	283

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By								
					2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
WAT906919 RL CLARK W.T.P. R&R																						
0 67	FACILITY & PROCESS UPGRADES-2016 SC	CW	S3	03	-65	0	150	0	0	85	0	85	0	0	0	0	85	0	0	0	0	85
Sub-total					9,430	22,470	12,850	1,624	210	46,584	750	47,334	0	0	2,733	0	44,601	0	0	0	0	47,334
WAT906930 DIST W/M REPLACEMENT																						
0 4	10 YEAR WATERMAIN REPLACEMENT	CW	S6	03	0	47,723	75,000	87,000	95,000	304,723	475,000	779,723	0	0	121,283	0	658,440	0	0	0	0	779,723
0 15	WM REPLC - STANDALONE	CW	S2	03	1,177	0	0	0	0	1,177	0	1,177	0	0	0	0	1,177	0	0	0	0	1,177
0 39	DIST W/M REPLACEMENT 2013	CW	S2	03	500	0	0	0	0	500	0	500	0	0	0	0	500	0	0	0	0	500
0 42	10 YEAR WATERMAIN UPGRADES	CW	S6	05	0	11,200	11,100	16,100	15,300	53,700	87,900	141,600	0	0	44,051	0	97,549	0	0	0	0	141,600
0 51	DIST W/M REPLACEMENT - 2014	CW	S2	03	6,764	0	0	0	0	6,764	0	6,764	0	0	0	0	6,764	0	0	0	0	6,764
0 52	WATERMAIN UPGRADES - 2014	CW	S2	05	2,087	0	0	0	0	2,087	0	2,087	0	0	0	0	2,087	0	0	0	0	2,087
0 55	WATERMAIN REPLACEMENT - METROLINX	CW	S2	03	50	1,000	1,000	1,000	0	3,050	0	3,050	0	0	0	0	3,050	0	0	0	0	3,050
0 63	DIST W/M REPLACEMENT - 2015	CW	S2	03	20,841	11,424	0	0	0	32,265	0	32,265	0	0	5,017	0	27,248	0	0	0	0	32,265
0 64	WATERMAIN UPGRADES - 2015	CW	S2	05	3,292	1,204	0	0	0	4,496	0	4,496	0	0	1,399	0	3,097	0	0	0	0	4,496
0 71	DIST W/M REPLACEMENT - 2014-2016 SC	CW	S3	03	-5,516	401	0	0	0	-5,115	0	-5,115	0	0	0	0	-5,115	0	0	0	0	-5,115
0 72	DIST W/M REPLACEMENT - 2015-2016 SC	CW	S3	03	0	-5,677	235	0	0	-5,442	0	-5,442	0	0	-844	0	-4,598	0	0	0	0	-5,442
0 73	DIST W/M REPLACEMENT - 2016	CW	S4	03	34,067	19,562	8,427	0	0	62,056	0	62,056	0	0	9,650	0	52,406	0	0	0	0	62,056
0 74	WATERMAIN UPGRADES - 2016	CW	S4	05	8,461	3,470	1,840	0	0	13,771	0	13,771	0	0	4,284	0	9,487	0	0	0	0	13,771
0 75	WATERMAIN UPGRADES - 2014-2016 SC	CW	S3	05	-1,729	400	0	0	0	-1,329	0	-1,329	0	0	0	0	-1,329	0	0	0	0	-1,329
0 76	WATERMAIN UPGRADES - 2015-2016 SC	CW	S3	05	-1,835	-867	0	0	0	-2,702	0	-2,702	0	0	-841	0	-1,861	0	0	0	0	-2,702
0 77	2013 WM REPLC - UPGRADES-2016 SC	CW	S3	05	106	0	0	0	0	106	0	106	0	0	33	0	73	0	0	0	0	106
0 78	WM REPLC - STANDALONE-2016 SC	CW	S3	03	-1,177	0	0	0	0	-1,177	0	-1,177	0	0	0	0	-1,177	0	0	0	0	-1,177
0 79	DIST W/M REPLC - 2012-2016 SC	CW	S3	03	148	0	0	0	0	148	0	148	0	0	0	0	148	0	0	0	0	148
0 80	2013 WM REPLC - SOGR-2016 SC	CW	S3	03	-480	0	0	0	0	-480	0	-480	0	0	0	0	-480	0	0	0	0	-480
0 81	2011 WM REPLC-2016 SC	CW	S3	03	4	0	0	0	0	4	0	4	0	0	0	0	4	0	0	0	0	4
Sub-total					66,760	89,840	97,602	104,100	110,300	468,602	562,900	1,031,502	0	0	184,032	0	847,470	0	0	0	0	1,031,502

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAT906932 DIST W/M REHABILITATION</u>																								
0	3	10 YEAR WATERMAIN REHABILITATION	CW	S6	03	0	2,665	48,318	61,210	62,115	174,308	333,457	507,765	0	0	0	0	507,765	0	0	0	0	0	507,765
0	4	HYDRANT & VALVE REPAIR	CW	S2	03	1,000	1,000	0	0	0	2,000	0	2,000	0	0	0	0	2,000	0	0	0	0	0	2,000
0	6	WATERMAIN STRUCTURAL LINING	CW	S2	03	54,415	61,658	20,717	5,400	0	142,190	0	142,190	0	0	0	0	142,190	0	0	0	0	0	142,190
0	7	CATHODIC PROTECTION	CW	S2	03	4,392	4,450	450	0	0	9,292	0	9,292	0	0	0	0	9,292	0	0	0	0	0	9,292
0	30	CUT REPAIRS	CW	S2	03	2,765	0	0	0	0	2,765	0	2,765	0	0	0	0	2,765	0	0	0	0	0	2,765
0	34	CUT REPAIR - FUTURE	CW	S6	03	0	0	3,021	3,112	3,205	9,338	17,530	26,868	0	0	0	0	26,868	0	0	0	0	0	26,868
0	46	WATERMAIN STRUCTURAL LINING-2016 SC	CW	S3	03	-10,957	-9,340	-6,088	-5,385	2	-31,768	0	-31,768	0	0	0	0	-31,768	0	0	0	0	0	-31,768
0	47	HYDRANT & VALVE REPAIR-2016 SC	CW	S3	03	1,845	500	0	0	0	2,345	0	2,345	0	0	0	0	2,345	0	0	0	0	0	2,345
0	49	CUT REPAIR-2016 SC	CW	S3	03	0	2,933	0	0	0	2,933	0	2,933	0	0	0	0	2,933	0	0	0	0	0	2,933
Sub-total						53,460	63,866	66,418	64,337	65,322	313,403	350,987	664,390	0	0	0	0	664,390	0	0	0	0	0	664,390
<u>WAT906934 DIST WATER SERVICE REPAIR</u>																								
0	4	10 YR WATER SERVICE REPAIR - LEAD PROGRAM	CW	S6	02	0	0	7,000	12,000	12,000	31,000	60,000	91,000	0	0	0	0	91,000	0	0	0	0	0	91,000
0	6	10 YR WATER SERVICE REPAIR - SOGR	CW	S6	02	0	0	12,510	12,690	12,880	38,080	64,675	102,755	0	0	0	0	102,755	0	0	0	0	0	102,755
0	12	ALL DISTRICT WSR - LEAD REPLACEMENT	CW	S2	02	9,250	9,250	0	0	0	18,500	0	18,500	0	0	0	0	18,500	0	0	0	0	0	18,500
0	32	WSR CUT REPAIRS	CW	S2	03	2,100	0	0	0	0	2,100	0	2,100	0	0	0	0	2,100	0	0	0	0	0	2,100
0	41	2013 WATER SERVICE REPLACEMENT -SOGR	CW	S2	02	1,253	0	0	0	0	1,253	0	1,253	0	0	0	0	1,253	0	0	0	0	0	1,253
0	45	WSR CUT REPAIR - FUTURE	CW	S6	02	0	0	3,500	3,500	3,500	10,500	17,500	28,000	0	0	0	0	28,000	0	0	0	0	0	28,000
0	52	2014 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	1,891	0	0	0	0	1,891	0	1,891	0	0	0	0	1,891	0	0	0	0	0	1,891
0	59	2015 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	9,000	4,500	0	0	0	13,500	0	13,500	0	0	0	0	13,500	0	0	0	0	0	13,500
0	67	WATER SERVICE REPAIR - LEAD PROGRAM-2016 SC	CW	S3	02	5,754	3,203	5,000	0	0	13,957	0	13,957	0	0	0	0	13,957	0	0	0	0	0	13,957
0	68	2016 WATER SERVICE REPLACEMENT - SOGR	CW	S4	02	10,001	12,000	5,000	0	0	27,001	0	27,001	0	0	0	0	27,001	0	0	0	0	0	27,001
0	69	2014 WATER SERVICE REPLACEMENT - SOGR-2016 SC	CW	S3	02	-672	276	0	0	0	-396	0	-396	0	0	0	0	-396	0	0	0	0	0	-396
0	70	2015 WATER SERVICE REPLACEMENT - SOGR-2016 SC	CW	S3	02	-3,773	-2,223	736	2	0	-5,258	0	-5,258	0	0	0	0	-5,258	0	0	0	0	0	-5,258
0	71	WATER SERVICE REPAIR - WM REHAB PROGRAM	CW	S4	02	12,000	6,000	0	0	0	18,000	0	18,000	0	0	0	0	18,000	0	0	0	0	0	18,000

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other 2	Debt - Recoverable	Total Financing	
<u>WAT906951 ENGINEERING</u>																							
0 66	ECS SALARIES-2016 SC	CW	S3	03	13,081	0	0	0	0	13,081	0	13,081	0	0	0	0	13,081	0	0	0	0	0	13,081
0 67	ROAD RESTORATION-2016 SC	CW	S3	03	150	6,005	0	0	0	6,155	0	6,155	0	0	0	0	6,155	0	0	0	0	0	6,155
0 68	CONSULTING FEES-2016 SC	CW	S3	03	-4,359	4,654	8,459	6,056	5,500	20,310	300	20,610	0	0	0	0	20,610	0	0	0	0	0	20,610
Sub-total					28,582	46,500	41,572	49,628	54,705	220,987	260,406	481,393	0	0	0	0	481,393	0	0	0	0	0	481,393
<u>WAT906977 ISLAND W.T.P. R&R</u>																							
0 1	FACILITY & PROCESS UPGRADES	CW	S2	03	757	375	0	0	0	1,132	0	1,132	0	0	0	0	1,132	0	0	0	0	0	1,132
0 12	FACILITY UPGRADE - FORMER MARINE YARD	CW	S2	03	1,437	0	0	0	0	1,437	0	1,437	0	0	0	0	1,437	0	0	0	0	0	1,437
0 32	TRAVELLING SCREEN REPLACEMENT	CW	S2	03	2,120	380	10	0	0	2,510	0	2,510	0	0	0	0	2,510	0	0	0	0	0	2,510
0 44	ISLAND ENWAVE/RETROFIT PROJECT	CW	S2	04	27	0	0	0	0	27	0	27	0	0	0	0	27	0	0	0	0	0	27
0 50	AMMONIA AND FLOURIDE SYSTEM UPGRADES	CW	S2	03	880	1,320	40	0	0	2,240	0	2,240	0	0	0	0	2,240	0	0	0	0	0	2,240
0 51	CHEMICAL SYSTEMS' ELECTRICAL FEED DISTRIBUTION	CW	S2	03	365	0	0	0	0	365	0	365	0	0	0	0	365	0	0	0	0	0	365
0 53	FACILITY & PROCESS UPGRADES - FUTURE	CW	S6	03	0	0	0	375	375	750	1,875	2,625	0	0	0	0	2,625	0	0	0	0	0	2,625
0 54	FILTER MEDIA REPLC - FUTURE	CW	S6	03	0	0	150	0	150	300	300	600	0	0	0	0	600	0	0	0	0	0	600
0 69	GENERATORS' DR3 PROGRAM	CW	S2	04	750	425	0	0	0	1,175	0	1,175	0	0	0	0	1,175	0	0	0	0	0	1,175
0 70	PLANTWIDE HVAC UPGRADES	CW	S2	04	90	490	45	0	0	625	0	625	0	0	0	0	625	0	0	0	0	0	625
0 78	Generators DR3 Program-2016 SC	CW	S3	04	-670	270	650	0	0	250	0	250	0	0	0	0	250	0	0	0	0	0	250
0 79	PLANTWIDE HVAC UPGRADES-2016 SC	CW	S3	04	-5	637	1,096	0	0	1,728	0	1,728	0	0	0	0	1,728	0	0	0	0	0	1,728
0 80	FACILITY UPGRADE - FORMER MARINE YARD-2016 SC	CW	S3	03	0	1,370	0	0	0	1,370	0	1,370	0	0	0	0	1,370	0	0	0	0	0	1,370
0 81	TRAVELLING SCREEN REPLACEMENT-2016 SC	CW	S3	03	-1,950	800	2,420	550	10	1,830	0	1,830	0	0	0	0	1,830	0	0	0	0	0	1,830
0 83	RAW WATER INTAKE CLEANING	CW	S4	03	100	1,000	0	0	0	1,100	0	1,100	0	0	0	0	1,100	0	0	0	0	0	1,100
0 84	CHEMICAL SYSTEMS' ELEC FEED DISTRIBUTION-2016 SC	CW	S3	03	-360	26	0	0	0	-334	0	-334	0	0	0	0	-334	0	0	0	0	0	-334
0 85	AMMONIA AND FLOURIDE SYSTEM UPGRADES-2016 SC	CW	S3	03	-535	1,279	3,400	12	0	4,156	0	4,156	0	0	0	0	4,156	0	0	0	0	0	4,156
0 86	ISLAND FILTER AIR SCOUR SYSTEM-2016 SC	CW	S3	04	100	0	0	0	0	100	0	100	0	0	6	0	94	0	0	0	0	0	100
0 87	ISLAND ENWAVE/RETROFIT PROJECT-2016 SC	CW	S3	04	-27	0	0	0	0	-27	0	-27	0	0	0	0	-27	0	0	0	0	0	-27

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAT907946 BUSINESS IT PROJECTS																							
0 15	EDOCS-2016 SC	CW	S3	04	-150	0	0	0	0	-150	0	-150	0	0	0	0	-150	0	0	0	0	0	-150
	Sub-total				919	1,721	1,422	1,273	1,000	6,335	500	6,835	0	0	0	0	6,835	0	0	0	0	0	6,835
WAT908087 TRUNK WATERMAIN																							
0 1	TRANSMISSION SYSTEM AUTOMATION	CW	S2	04	1,750	1,750	10	0	0	3,510	0	3,510	0	0	0	0	3,510	0	0	0	0	0	3,510
0 4	JOS - REVENUE METER REPLACEMENT	CW	S4	03	50	3,500	2,950	0	0	6,500	0	6,500	0	0	0	0	3,250	0	0	3,250	0	0	6,500
0 5	CAST IRON T/M REPLACEMENT - FUTURE	CW	S6	03	0	0	0	2,000	2,000	4,000	25,000	29,000	0	0	0	0	29,000	0	0	0	0	0	29,000
0 6	3RD PARTY RELOCATIONS (METROLINX)	CW	S2	04	500	500	250	250	0	1,500	0	1,500	0	0	0	0	1,500	0	0	0	0	0	1,500
0 8	TRANSMISSION SYSTEM AUTOMATION-2016 SC	CW	S3	04	654	454	0	0	0	1,108	0	1,108	0	0	0	0	1,108	0	0	0	0	0	1,108
0 9	3RD PARTY RELOCATIONS (METROLINX)-2016 SC	CW	S3	04	-200	-200	0	0	200	-200	200	0	0	0	0	0	0	0	0	0	0	0	0
	Sub-total				2,754	6,004	3,210	2,250	2,200	16,418	25,200	41,618	0	0	0	0	38,368	0	0	3,250	0	0	41,618
WAT908248 WT&S PLANTWIDE																							
0 1	UV DISINFECTION - CONCEPTUAL DESIGN	CW	S4	04	1,500	500	0	0	0	2,000	0	2,000	0	0	0	0	2,000	0	0	0	0	0	2,000
0 2	UV DISINFECTION - ENGINEERING	CW	S6	04	0	0	1,450	645	1,150	3,245	2,890	6,135	0	0	0	0	6,135	0	0	0	0	0	6,135
0 3	UV DISINFECTION - CONSTRUCTION	CW	S6	04	0	0	0	0	13,400	13,400	36,610	50,010	0	0	0	0	50,010	0	0	0	0	0	50,010
0 4	ZEBRA MUSSEL CONTROL - ENG	CW	S6	04	0	450	275	300	475	1,500	100	1,600	0	0	0	0	1,600	0	0	0	0	0	1,600
0 5	ZEBRA MUSSEL CONTROL - CONSTRUCTION	CW	S6	04	0	0	200	2,500	7,000	9,700	800	10,500	0	0	0	0	10,500	0	0	0	0	0	10,500
0 6	STANDBY POWER - PHASE 2 - ENG	CW	S4	04	200	600	600	1,200	1,400	4,000	2,400	6,400	0	0	384	0	4,096	0	0	1,920	0	0	6,400
0 7	STANDBY POWER - FUTURE	CW	S6	04	0	0	4,000	7,000	3,600	14,600	74,900	89,500	0	0	5,370	0	57,280	0	0	26,850	0	0	89,500
	Sub-total				1,700	1,550	6,525	11,645	27,025	48,445	117,700	166,145	0	0	5,754	0	131,621	0	0	28,770	0	0	166,145
Total Program Expenditure						332,085	455,561	396,359	364,663	372,592	1,921,260	1,904,677	3,825,937	0	0	306,307	0	3,450,913	0	0	68,717	0	3,825,937

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Water Program						Current and Future Year Cash Flow Commitments and Estimates						Current and Future Year Cash Flow Commitments and Estimates Financed By										
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserve Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt
Sub- Priority	Project No. SubProj No.	Project Name Sub-project Name	Ward	Stat. Cat.																		
Financed By:																						
		Development Charges			22,052	31,282	41,571	33,494	24,068	152,467	153,840	306,307	0	0	306,307	0	0	0	0	0	306,307	
		Reserve Funds (Ind."XR" Ref.)			305,169	410,552	347,312	324,336	345,740	1,733,109	1,717,804	3,450,913	0	0	0	03,450,913	0	0	0	0	3,450,913	
		Other2 (External)			4,864	13,727	7,476	6,833	2,784	35,684	33,033	68,717	0	0	0	0	0	68,717	0	0	68,717	
Total Program Financing						332,085	455,561	396,359	364,663	372,592	1,921,260	1,904,677	3,825,937	0	0	306,307	03,450,913	0	0	68,717	0	3,825,937

Status Code	Description
S2	S2 Prior Year (With 2016 and/or Future Year Cashflow)
S3	S3 Prior Year - Change of Scope 2016 and/or Future Year Cost(Cashflow)
S4	S4 New - Stand-Alone Project (Current Year Only)
S5	S5 New (On-going or Phased Projects)
S6	S6 New - Future Year (Commencing in 2017 & Beyond)

Category Code	Description
01	Health and Safety C01
02	Legislated C02
03	State of Good Repair C03
04	Service Improvement and Enhancement C04
05	Growth Related C05
06	Reserved Category 1 C06
07	Reserved Category 2 C07

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
WAS000259 TRUNK SEWER SYSTEM																									
0	15	TRUNK SEWER REHABILITATION - 2012	CW	S2	03	6,281	1,922	391	89	11	8,694	0	8,694	0	0	0	0	8,694	0	0	0	0	0	8,694	
0	18	BLACK CREEK STS DESIGN & CONSTRUCTION	CW	S6	05	0	0	0	1,000	5,500	6,500	83,000	89,500	0	0	25,614	0	63,886	0	0	0	0	0	89,500	
0	23	TRUNK SEWER REHABILITATION	CW	S2	03	15	0	0	0	0	15	0	15	0	0	0	0	15	0	0	0	0	0	15	
0	24	TRUNK SEWER REHABILITATION - FORECAST	CW	S6	03	0	0	50	14,100	20,100	34,250	126,500	160,750	0	0	0	0	160,750	0	0	0	0	0	160,750	
0	27	TRUNK SEWER REHABILITATION - 2014	CW	S2	03	24,200	5,925	1,393	7	0	31,525	0	31,525	0	0	0	0	31,525	0	0	0	0	0	31,525	
0	34	BLACK CREEK STS EA	CW	S2	05	600	300	0	0	0	900	0	900	0	0	0	0	900	0	0	0	0	0	900	
0	36	PROCESS UPGRADES & ODOUR CONTROL ENGINEERING	CW	S6	03	0	0	4,900	5,000	5,000	14,900	25,000	39,900	0	0	0	0	39,900	0	0	0	0	0	39,900	
0	44	TRUNK SEWER REHABILITATION - 2014-2016 SC	CW	S3	03	3,413	18,274	6,174	1,803	10	29,674	0	29,674	0	0	0	0	29,674	0	0	0	0	0	29,674	
0	45	TRUNK SEWER REHABILITATION - 2012-2016 SC	CW	S3	03	-912	-322	357	12	18	-847	0	-847	0	0	0	0	-847	0	0	0	0	0	-847	
0	46	TRUNK SEWER REHABILITATION-2016 SC	CW	S3	03	-15	0	0	0	0	-15	0	-15	0	0	0	0	-15	0	0	0	0	0	-15	
0	47	TRUNK SEWER REHABILITATION - 2016	CW	S4	03	1,000	3,275	19,175	11,770	240	35,460	10	35,470	0	0	0	0	35,470	0	0	0	0	0	35,470	
0	48	BLACK CREEK STS EA-2016 SC	CW	S3	05	250	453	0	0	0	703	0	703	0	0	0	0	703	0	0	0	0	0	703	
Sub-total						34,832	29,827	32,440	33,781	30,879	161,759	234,510	396,269	0	0	25,614	0	370,655	0	0	0	0	0	396,269	
WAS000442 BASEMENT FLOODING RELIEF																									
0	1	BASEMENT FLOODING PROTECTION SUBSIDY PROGRAM	CW	S2	04	2,000	5,500	0	0	0	7,500	0	7,500	0	0	0	0	7,500	0	0	0	0	0	7,500	
0	8	BASEMENT FLOODING STUDIES & EAS	CW	S2	04	2,023	280	100	100	0	2,503	0	2,503	0	0	0	0	2,503	0	0	0	0	0	2,503	
0	9	BASEMENT FLOODING RELIEF - TUNNEL PROJECT	CW	S2	04	15,000	30,000	30,000	35,000	30,000	140,000	10,000	150,000	0	0	0	0	150,000	0	0	0	0	0	150,000	
0	12	ROAD RESTORATION FOR BSMT FLDG	CW	S2	04	800	0	0	0	0	800	0	800	0	0	0	0	800	0	0	0	0	0	800	
0	14	BASEMENT FLOODING DESIGN - GROUP 1	CW	S2	04	525	1,397	129	0	0	2,051	0	2,051	0	0	0	0	2,051	0	0	0	0	0	2,051	
0	18	BASEMENT FLOODING DESIGN - GROUP 2	CW	S2	04	3,925	6,299	1,000	334	14	11,572	7	11,579	0	0	0	0	11,579	0	0	0	0	0	11,579	
0	19	BASEMENT FLOODING RELIEF - GROUP 2	CW	S2	04	29,502	66,398	45,069	2,000	0	142,969	0	142,969	0	0	0	0	142,969	0	0	0	0	0	142,969	
0	20	BASEMENT FLOODING DESIGN - GROUP 3	CW	S2	04	2,761	2,115	678	3,279	0	8,833	0	8,833	0	0	0	0	8,833	0	0	0	0	0	8,833	
0	29	BASEMENT FLOODING RELIEF - GROUP 1	CW	S2	04	10,267	75	0	0	0	10,342	0	10,342	0	0	0	0	10,342	0	0	0	0	0	10,342	
0	52	BASEMENT FLOODING RELIEF - FUTURE	CW	S6	04	0	0	43,451	38,150	39,537	121,138	342,560	463,698	0	0	0	0	463,698	0	0	0	0	0	463,698	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By								
					2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable	Total Financing
WAS906331 SWM SOURCE CONTROL PROG																						
0 9	DOWNSPOUT DISCONNECTION PROGRAM	CW	S2	04	150	150	150	0	0	450	0	450	0	0	0	0	450	0	0	0	0	450
	Sub-total				150	150	150	0	0	450	0	450	0	0	0	0	450	0	0	0	0	450
WAS906380 HIGHLAND CREEK WWTP - ODOUR CONTROL																						
0 1	ODOUR CONTROL UPGRADES - PHASE 1 ENG	CW	S2	04	605	1,920	1,100	805	0	4,430	0	4,430	0	0	358	0	4,072	0	0	0	0	4,430
0 2	ODOUR CONTROL UPGRADES PHASE 1 CONST	CW	S2	02	19,000	15,000	15,000	5,575	0	54,575	0	54,575	0	0	4,392	0	50,183	0	0	0	0	54,575
0 3	ODOUR CONTROL UPGRADES - PHASE 2	CW	S6	02	0	0	0	0	400	400	34,700	35,100	0	0	1,301	0	33,799	0	0	0	0	35,100
0 18	ODOUR CONTROL UPGRADES - PHASE 1 CONSTR-2016 SC	CW	S3	02	-1,000	0	0	-370	0	-1,370	0	-1,370	0	0	-110	0	-1,260	0	0	0	0	-1,370
0 19	ODOUR CONTROL UPGRADES - PHASE 1 ENG-2016 SC	CW	S3	04	397	-920	-80	112	100	-391	5	-386	0	0	-32	0	-354	0	0	0	0	-386
	Sub-total				19,002	16,000	16,020	6,122	500	57,644	34,705	92,349	0	0	5,909	0	86,440	0	0	0	0	92,349
WAS906486 ASHBRIDGES BAY T.P. - III YR2004																						
0 3	PCS-PLANT SRVS	CW	S2	04	50	30	0	0	0	80	0	80	0	0	6	0	74	0	0	0	0	80
0 47	PCS-PLANT SRVS-2016 SC	CW	S3	04	117	0	0	0	0	117	0	117	0	0	9	0	108	0	0	0	0	117
	Sub-total				167	30	0	0	0	197	0	197	0	0	15	0	182	0	0	0	0	197
WAS906487 HIGHLAND CREEK T.P. - IV YR2004																						
0 2	PCS PLANT SERVICES	CW	S2	04	120	0	0	0	0	120	0	120	0	0	10	0	110	0	0	0	0	120
0 21	PCS PLANT SERVICES-2016 SC	CW	S3	04	-120	0	0	0	0	-120	0	-120	0	0	-10	0	-110	0	0	0	0	-120
	Sub-total				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WAS906488 HUMBER T.P. - II YR2004																						
0 2	PCS PLANT SERVICES	CW	S2	04	5	7	7	0	0	19	0	19	0	0	2	0	17	0	0	0	0	19
0 23	PCS PLANT SERVICES-2016 SC	CW	S3	04	0	-6	-7	0	0	-13	0	-13	0	0	-1	0	-12	0	0	0	0	-13
	Sub-total				5	1	0	0	0	6	0	6	0	0	1	0	5	0	0	0	0	6
WAS906492 WET WEATHER FLOW MP																						
0 1	SWM INA-EA	CW	S2	04	550	350	200	50	0	1,150	0	1,150	0	0	92	0	1,058	0	0	0	0	1,150
0 2	WWFMP - PUBLIC EDUCATION	CW	S2	04	500	0	0	0	0	500	0	500	0	0	40	0	460	0	0	0	0	500
0 10	10 YEAR SWM - CONVEYANCE	CW	S6	04	0	3,000	5,125	6,000	6,000	20,125	30,000	50,125	0	0	4,034	0	46,091	0	0	0	0	50,125

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By								
					2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
WAS906741 HIGHLAND CREEK TP YR2005																						
0 18	WAS THICKENING AND DEWATERING - ENG-2016 SC	CW	S3	03	-108	22	6	0	0	-80	0	-80	0	0	-6	0	-74	0	0	0	0	-80
	Sub-total				7	27	6	0	0	40	0	40	0	0	3	0	37	0	0	0	0	40
WAS906742 HUMBER TP YR2005																						
0 8	ODOUR CONTROL ENGINEERING	CW	S2	04	1,750	174	100	101	0	2,125	0	2,125	0	0	0	0	2,125	0	0	0	0	2,125
0 55	ODOUR CONTROL ENGINEERING-2016 SC	CW	S3	04	-511	266	0	-41	0	-286	0	-286	0	0	0	0	-286	0	0	0	0	-286
	Sub-total				1,239	440	100	60	0	1,839	0	1,839	0	0	0	0	1,839	0	0	0	0	1,839
WAS906743 ASHRIDGES BAY TP YR2005																						
0 1	MISC MECH ENGINEERING	CW	S2	03	905	275	850	0	0	2,030	0	2,030	0	0	163	0	1,867	0	0	0	0	2,030
0 4	M & T RETROFIT	CW	S2	03	409	0	0	0	0	409	0	409	0	0	0	0	409	0	0	0	0	409
0 7	SERVICE AIR UPGRADES	CW	S2	03	2,400	3,000	588	0	0	5,988	0	5,988	0	0	0	0	5,988	0	0	0	0	5,988
0 56	M & T RETROFIT-2016 SC	CW	S3	03	-406	0	0	0	0	-406	0	-406	0	0	0	0	-406	0	0	0	0	-406
0 57	MISC MECH ENGINEERING-2016 SC	CW	S3	03	-545	330	-12	87	0	-140	0	-140	0	0	-11	0	-129	0	0	0	0	-140
0 58	SERVICE AIR UPGRADES-2016 SC	CW	S3	03	-845	1,350	909	150	0	1,564	0	1,564	0	0	0	0	1,564	0	0	0	0	1,564
	Sub-total				1,918	4,955	2,335	237	0	9,445	0	9,445	0	0	152	0	9,293	0	0	0	0	9,445
WAS906755 WESTERN BEACHES RETROFIT																						
0 1	WESTERN BEACHES RETROFIT	CW	S2	03	4,100	1,000	0	0	0	5,100	0	5,100	0	0	410	0	4,690	0	0	0	0	5,100
0 13	WESTERN BEACHES RETROFIT-2016 SC	CW	S3	03	-3,180	2,271	3,092	1,057	15	3,255	86	3,341	0	0	269	0	3,072	0	0	0	0	3,341
	Sub-total				920	3,271	3,092	1,057	15	8,355	86	8,441	0	0	679	0	7,762	0	0	0	0	8,441
WAS906926 OPERATIONAL SUPPORT																						
0 6	FACILITY RENOVATION	CW	S2	04	1,000	0	0	0	0	1,000	0	1,000	0	0	0	0	1,000	0	0	0	0	1,000
0 23	EMP MONITORING NEEDS	CW	S2	04	50	50	0	0	0	100	0	100	0	0	0	0	100	0	0	0	0	100
0 40	WWTP PLC PLATFORM UPGRADE	CW	S2	04	3,180	5,774	5,780	5,393	25	20,152	25	20,177	0	0	0	0	20,177	0	0	0	0	20,177
0 71	BIOSOLIDS TREATMENT UPGRADES	CW	S6	03	0	0	525	1,625	1,625	3,775	8,125	11,900	0	0	0	0	11,900	0	0	0	0	11,900
0 94	DISTRICT OPERATIONS FACILITY UPGRADES	CW	S6	04	0	0	0	0	0	0	3,900	3,900	0	0	0	0	3,900	0	0	0	0	3,900
0 95	DIVISIONAL SECURITY - BACKLOG	CW	S6	04	0	0	605	605	605	1,815	3,025	4,840	0	0	0	0	4,840	0	0	0	0	4,840

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAS906926 OPERATIONAL SUPPORT																								
0	98	DESIGNATED SUBSTANCE ABATEMENT	CW	S2	02	100	0	0	0	0	100	0	100	0	0	0	0	100	0	0	0	0	0	100
0	100	DIVISIONAL SECURITY-2016 SC	CW	S3	04	925	1,025	0	0	0	1,950	0	1,950	0	0	0	0	1,950	0	0	0	0	0	1,950
0	101	FACILITY RENOVATION-2016 SC	CW	S3	04	69	1,000	1,000	0	0	2,069	0	2,069	0	0	0	0	2,069	0	0	0	0	0	2,069
0	102	PCS UPGRADES FOR WASTEWATER TREATMENT-2016 SC	CW	S3	04	-1,536	-1,771	-471	415	3,999	636	-1	635	0	0	0	0	635	0	0	0	0	0	635
0	104	DESIGNATED SUBSTANCE ABATEMENT-2016 SC	CW	S3	02	0	100	100	0	0	200	0	200	0	0	0	0	200	0	0	0	0	0	200
Sub-total						3,788	6,178	7,539	8,038	6,254	31,797	15,074	46,871	0	0	0	0	46,871	0	0	0	0	0	46,871
WAS906958 SEWER SYSTEM REHABILITATION																								
0	5	CCTV INSPECTION	CW	S2	03	1,200	0	0	0	0	1,200	0	1,200	0	0	0	0	1,200	0	0	0	0	0	1,200
0	7	10 YEAR SEWER REHABILITATION	CW	S6	03	0	14,050	36,200	56,000	53,250	159,500	299,539	459,039	0	0	0	0	459,039	0	0	0	0	0	459,039
0	8	SPS SCADA UPGRADES - ENGINEERING	CW	S2	04	500	12	0	0	0	512	0	512	0	0	41	0	471	0	0	0	0	0	512
0	9	SEWER REHABILITATION	CW	S2	03	31,120	24,100	4,500	0	0	59,720	0	59,720	0	0	0	0	59,720	0	0	0	0	0	59,720
0	23	SEWAGE PUMPING STATION STANDBY POWER	CW	S2	02	252	0	0	0	0	252	0	252	0	0	20	0	232	0	0	0	0	0	252
0	24	GROUP 5 SEWAGE PUMPING STATION UPGRADES	CW	S2	05	4,250	6,300	6,300	3,665	1,028	21,543	28	21,571	0	0	1,736	0	19,835	0	0	0	0	0	21,571
0	74	GROUPS 2, 3 & 4 SEWAGE PS UPGRADES-2016 SC	CW	S3	03	6	0	0	0	0	6	0	6	0	0	1	0	5	0	0	0	0	0	6
0	75	GROUP 5 SEWAGE PUMPING STATION UPGRADES-2016 SC	CW	S3	05	-1,637	-1,000	0	2,500	900	763	0	763	0	0	61	0	702	0	0	0	0	0	763
0	76	SEWAGE PUMPING STATION STANDBY POWER-2016 SC	CW	S3	02	-199	144	0	0	0	-55	0	-55	0	0	-5	0	-50	0	0	0	0	0	-55
0	77	SPS SCADA UPGRADES - ENGINEERING-2016 SC	CW	S3	04	0	175	0	0	0	175	0	175	0	0	14	0	161	0	0	0	0	0	175
0	78	SEWER REHABILITATION-2016 SC	CW	S3	03	4,518	-14,400	-919	0	0	-10,801	0	-10,801	0	0	0	0	-10,801	0	0	0	0	0	-10,801
0	79	SEWER REHABILITATION - CWD	CW	S4	03	20,250	29,500	15,250	0	0	65,000	0	65,000	0	0	5,158	0	59,842	0	0	0	0	0	65,000
0	80	CCTV INSPECTION-2016 SC	CW	S3	03	75	0	0	0	0	75	0	75	0	0	0	0	75	0	0	0	0	0	75
Sub-total						60,335	58,881	61,331	62,165	55,178	297,890	299,567	597,457	0	0	7,026	0	590,431	0	0	0	0	0	597,457
WAS906960 STREAM RESTORATION & EROSION CONTRC																								
0	5	10 YEAR STREAM RESTORATION - ALL DISTRICTS	CW	S6	03	0	0	0	0	0	0	38,790	38,790	0	0	3,122	0	35,668	0	0	0	0	0	38,790
0	7	STREAM RESTORATION	CW	S2	03	10,895	4,889	2,026	1,815	50	19,675	0	19,675	0	0	1,583	0	18,092	0	0	0	0	0	19,675

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAS906960 STREAM RESTORATION & EROSION CONTRC</u>																									
0	37	WATERCOURSE EROSION CONTROL	CW	S6	04	0	0	0	0	0	0	8,000	8,000	0	0	645	0	7,355	0	0	0	0	0	8,000	
0	38	HIGHLAND CREEK STREAM RESTORATION-2016 SC	CW	S3	04	20	25	0	0	0	45	0	45	0	0	4	0	41	0	0	0	0	0	45	
0	39	STREAM RESTORATION - PHASE 2	CW	S4	03	950	2,850	8,350	8,800	4,400	25,350	11,990	37,340	0	0	3,003	0	34,337	0	0	0	0	0	37,340	
0	40	STREAM RESTORATION -2016 SC	CW	S3	03	-5,421	2,824	1,834	915	250	402	50	452	0	0	36	0	416	0	0	0	0	0	452	
Sub-total						6,444	10,588	12,210	11,530	4,700	45,472	58,830	104,302	0	0	8,393	0	95,909	0	0	0	0	0	104,302	
<u>WAS906966 SWM TRCA FUNDING</u>																									
0	8	10 YEAR TRCA FUNDING	CW	S6	04	0	4,275	4,382	4,491	4,604	17,752	24,805	42,557	0	0	3,425	0	39,132	0	0	0	0	0	42,557	
0	22	TORONTO WATER TRANSFER TO TRCA CAPITAL-2016 SC	CW	S3	04	4,171	0	0	0	0	4,171	0	4,171	0	0	336	0	3,835	0	0	0	0	0	4,171	
Sub-total						4,171	4,275	4,382	4,491	4,604	21,923	24,805	46,728	0	0	3,761	0	42,967	0	0	0	0	0	0	46,728
<u>WAS906968 ENGINEERING</u>																									
0	2	CONSULTING FEES	CW	S2	03	8,056	5,045	2,653	251	54	16,059	1,012	17,071	0	0	0	0	17,071	0	0	0	0	0	17,071	
0	59	ROAD RESTORATION	CW	S2	03	1,249	0	0	0	0	1,249	0	1,249	0	0	0	0	1,249	0	0	0	0	0	1,249	
0	61	CONSULTING FEES-2016 SC	CW	S3	03	-2,299	3,461	6,800	6,056	5,500	19,518	301	19,819	0	0	0	0	19,819	0	0	0	0	0	19,819	
0	62	ECS SALARIES-2016 SC	CW	S3	03	13,081	0	0	0	0	13,081	0	13,081	0	0	0	0	13,081	0	0	0	0	0	13,081	
0	63	ROAD RESTORATION-2016 SC	CW	S3	03	20	1,838	0	0	0	1,858	0	1,858	0	0	0	0	1,858	0	0	0	0	0	1,858	
Sub-total						20,107	10,344	9,453	6,307	5,554	51,765	1,313	53,078	0	0	0	0	53,078	0	0	0	0	0	0	53,078
<u>WAS906973 SEWER REPLACEMENT PROGRAM</u>																									
0	3	10YR SEWER REPLACEMENT	CW	S6	03	0	16,250	30,000	35,000	40,000	121,250	225,000	346,250	0	0	12,820	0	333,430	0	0	0	0	0	346,250	
0	24	SEWAGE FORCEMAIN REPLACEMENT	CW	S2	03	1,505	5	0	0	0	1,510	0	1,510	0	0	0	0	1,510	0	0	0	0	0	1,510	
0	25	SEWER REPLACEMENT 2012	CW	S2	03	1,279	0	0	0	0	1,279	0	1,279	0	0	0	0	1,279	0	0	0	0	0	1,279	
0	35	SEWER REPLACEMENT - 2013 PROGRAM	CW	S2	03	517	0	0	0	0	517	0	517	0	0	42	0	475	0	0	0	0	0	517	
0	36	SEWER REPLC - 2014 PROGRAM	CW	S2	03	2,104	0	0	0	0	2,104	0	2,104	0	0	0	0	2,104	0	0	0	0	0	2,104	
0	37	FORCEMAIN REPLACEMENT - FUTURE	CW	S6	03	0	0	0	0	2,000	2,000	10,000	12,000	0	0	0	0	12,000	0	0	0	0	0	12,000	
0	44	COXWELL EMERGENCY TRUNK REPAIR	CW	S2	03	54	0	0	0	0	54	0	54	0	0	0	0	54	0	0	0	0	0	54	
0	52	SEWER REPLACEMENT - METROLINX	CW	S2	03	57	1,900	1,900	1,786	0	5,643	0	5,643	0	0	0	0	5,643	0	0	0	0	0	5,643	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAS906973 SEWER REPLACEMENT PROGRAM</u>																									
0	62	SEWER REPLC - 2015 PROGRAM	CW	S2	03	6,732	5,491	0	0	0	12,223	0	12,223	0	0	984	0	11,239	0	0	0	0	0	12,223	
0	70	FORCEMAIN REPLACEMENT-2016 SC	CW	S3	03	-1,500	0	0	0	0	-1,500	0	-1,500	0	0	0	0	-1,500	0	0	0	0	0	-1,500	
0	71	SEWER REPLC - 2016 PROGRAM	CW	S4	03	7,447	9,083	4,610	0	0	21,140	0	21,140	0	0	1,702	0	19,438	0	0	0	0	0	21,140	
0	72	COXWELL EMERGENCY TRUNK REPAIR-2016 SC	CW	S3	03	149	0	0	0	0	149	0	149	0	0	0	0	149	0	0	0	0	0	149	
0	73	SEWER REPLC - 2014 PROGRAM-2016 SC	CW	S3	03	-1,898	607	0	0	0	-1,291	0	-1,291	0	0	0	0	-1,291	0	0	0	0	0	-1,291	
0	74	SEWER REPLC - 2015 PROGRAM-2016 SC	CW	S3	03	2,554	-3,981	182	0	0	-1,245	0	-1,245	0	0	-99	0	-1,146	0	0	0	0	0	-1,245	
0	75	FORCEMAIN REPLACEMENT - 2016	CW	S4	03	2,100	3,100	10,000	9,900	50	25,150	50	25,200	0	0	0	0	25,200	0	0	0	0	0	25,200	
0	76	2012 SEWER REPLC-2016 SC	CW	S3	03	-1,278	415	0	0	0	-863	0	-863	0	0	0	0	-863	0	0	0	0	0	-863	
0	77	2013 SEWER REPLC-2016 SC	CW	S3	03	-504	0	0	0	0	-504	0	-504	0	0	-41	0	-463	0	0	0	0	0	-504	
Sub-total						19,318	32,870	46,692	46,686	42,050	187,616	235,050	422,666	0	0	15,408	0	407,258	0	0	0	0	0	422,666	
<u>WAS906980 ASHBRIDGES BAY T.P. YR2006</u>																									
0	9	DEWATERING EQUIPMENT UPGRADES	CW	S2	03	510	1,049	0	0	0	1,559	0	1,559	0	0	125	0	1,434	0	0	0	0	0	1,559	
0	40	DEWATERING EQUIPMENT UPGRADES-2016 SC	CW	S3	03	-213	199	0	0	0	-14	0	-14	0	0	-1	0	-13	0	0	0	0	0	-14	
Sub-total						297	1,248	0	0	0	1,545	0	1,545	0	0	124	0	1,421	0	0	0	0	0	0	1,545
<u>WAS906981 HIGHLAND CREEK WWTP UPGRADES</u>																									
0	1	PROCESS & FACILITY UPGRADE	CW	S2	04	2,110	950	675	727	883	5,345	85	5,430	0	0	0	0	5,430	0	0	0	0	0	5,430	
0	3	BIOSOLIDS TREATMENT UPGRADES	CW	S2	03	18,390	6,095	120	120	70	24,795	0	24,795	0	0	2,006	0	22,789	0	0	0	0	0	24,795	
0	5	TRANSFORMERS AND SWITCHGEAR	CW	S2	05	500	500	500	2,000	8,000	11,500	6,000	17,500	0	0	1,408	0	16,092	0	0	0	0	0	17,500	
0	7	MECH & ELECTRICAL UPGRADE ENGINEERING	CW	S2	03	1,578	45	0	0	0	1,623	0	1,623	0	0	0	0	1,623	0	0	0	0	0	1,623	
0	8	DIGESTER GAS SYSTEM UPGRADES	CW	S2	03	4,575	4,600	10	0	0	9,185	0	9,185	0	0	0	0	9,185	0	0	0	0	0	9,185	
0	16	MECH SYSTEM UPGRADES - CONSTR	CW	S2	03	762	0	0	0	0	762	0	762	0	0	0	0	762	0	0	0	0	0	762	
0	23	ELECTRICAL UPGRADES - ECAR	CW	S2	03	3,599	590	2,720	4,800	0	11,709	0	11,709	0	0	0	0	11,709	0	0	0	0	0	11,709	
0	31	ELEC SYSTEM UPGRADES - CONSTR	CW	S2	03	1,383	0	0	0	0	1,383	0	1,383	0	0	0	0	1,383	0	0	0	0	0	1,383	
0	32	CEPA COMPLIANCE - CL NOTICE - HCTP	CW	S2	02	450	2,000	0	0	0	2,450	0	2,450	0	0	0	0	2,450	0	0	0	0	0	2,450	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAS906981 HIGHLAND CREEK WWTP UPGRADES</u>																								
0	80	DIGESTER CLEANING, REHAB AND IMPROVEMENTS #4-7	CW	S2	03	1,500	1,300	0	0	0	2,800	0	2,800	0	0	0	0	2,800	0	0	0	0	0	2,800
0	83	PLANT FIRM CAPACITY - CONCEPT DESIGN	CW	S2	03	25	0	0	0	0	25	0	25	0	0	0	0	25	0	0	0	0	0	25
0	90	PROCESS IMPROVEMENTS (ROADMAP FOR RCM)	CW	S2	03	150	50	0	0	0	200	0	200	0	0	0	0	200	0	0	0	0	0	200
0	91	PROCESS, EQUIPMENT, FACILITY UPGRADES	CW	S2	03	735	125	0	0	0	860	0	860	0	0	0	0	860	0	0	0	0	0	860
0	92	LIQUID TRAIN REPAIRS - PHASE 1	CW	S2	03	2,650	4,150	3,600	1,400	0	11,800	0	11,800	0	0	0	0	11,800	0	0	0	0	0	11,800
0	101	AERATION SYSTEM AND ASSOCIATED BUILDING UPGRADES	CW	S4	04	100	10,000	12,000	12,000	10,900	45,000	10,000	55,000	0	0	0	0	55,000	0	0	0	0	0	55,000
0	102	LIQUID TRAIN - ENGINEERING	CW	S2	03	4,100	5,500	6,500	8,600	3,700	28,400	11,780	40,180	0	0	0	0	40,180	0	0	0	0	0	40,180
0	103	LIQUID TRAIN - CONSTRUCTION	CW	S6	04	0	0	0	0	12,000	12,000	110,000	122,000	0	0	0	0	122,000	0	0	0	0	0	122,000
0	104	PROCESS & FACILITY UPGRADE - FUTURE	CW	S6	03	0	0	250	250	250	750	1,250	2,000	0	0	0	0	2,000	0	0	0	0	0	2,000
0	105	LIQUID TRAIN REPAIRS - PHASE 2	CW	S6	03	0	0	0	0	0	0	34,700	34,700	0	0	0	0	34,700	0	0	0	0	0	34,700
0	106	PROCESS & FACILITY UPGRADE-2016 SC	CW	S3	04	-462	962	45	-112	-35	398	590	988	0	0	0	0	988	0	0	0	0	0	988
0	107	MECH & ELECTRICAL UPGRADE ENGINEERING-2016 SC	CW	S3	03	-1,386	567	0	0	0	-819	0	-819	0	0	0	0	-819	0	0	0	0	0	-819
0	110	MECH SYSTEM UPGRADES - CONSTR-2016 SC	CW	S3	03	-762	0	0	0	0	-762	0	-762	0	0	0	0	-762	0	0	0	0	0	-762
0	111	ELEC SYSTEM UPGRADES - CONSTR-2016 SC	CW	S3	03	-1,375	390	0	0	0	-985	0	-985	0	0	0	0	-985	0	0	0	0	0	-985
0	112	DIGESTER CLEANING, REHAB&IMPROVEMENTS #4-7-2016 SC	CW	S3	03	-1,363	-1,050	124	81	85	-2,123	0	-2,123	0	0	0	0	-2,123	0	0	0	0	0	-2,123
0	113	PROCESS IMPROVEMENTS (ROADMAP FOR RCM)-2016 SC	CW	S3	03	-100	150	0	0	0	50	0	50	0	0	0	0	50	0	0	0	0	0	50
0	114	PROCESS, EQUIPMENT, FACILITY UPGRADES-2016 SC	CW	S3	03	-560	1,115	0	0	0	555	0	555	0	0	0	0	555	0	0	0	0	0	555
0	115	PLANT FIRM CAPACITY - CONCEPT DESIGN-2016 SC	CW	S3	03	-25	0	0	0	0	-25	0	-25	0	0	0	0	-25	0	0	0	0	0	-25
0	116	CEPA COMPLIANCE - CL NOTICE - HCTP-2016 SC	CW	S3	02	-425	-1,025	1,500	0	0	50	0	50	0	0	0	0	50	0	0	0	0	0	50
0	117	LIQUID TRAIN REPAIRS - PHASE 1-2016 SC	CW	S3	03	-610	-110	1,056	0	0	336	0	336	0	0	0	0	336	0	0	0	0	0	336
0	118	BIOSOLIDS TREATMENT UPGRADES -2016 SC	CW	S3	03	-7,938	5,865	0	0	0	-2,073	0	-2,073	0	0	-166	0	-1,907	0	0	0	0	0	-2,073
0	119	DIGESTER GAS SYSTEM UPGRADES-2016 SC	CW	S3	03	0	-48	2,515	1,300	0	3,767	0	3,767	0	0	0	0	3,767	0	0	0	0	0	3,767
0	120	TRANSFORMERS AND SWITCHGEAR-2016 SC	CW	S3	05	0	0	0	-2,000	-8,000	-10,000	-6,000	-16,000	0	0	-1,288	0	-14,712	0	0	0	0	0	-16,000
0	121	ELECTRICAL UPGRADES - ECAR-2016 SC	CW	S3	03	-2,358	527	-2,070	2,430	1,210	-261	0	-261	0	0	0	0	-261	0	0	0	0	0	-261

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAS906981 HIGHLAND CREEK WWTP UPGRADES</u>																								
0	122	LIQUID TRAIN - ENGINEERING-2016 SC	CW	S3	03	2	500	0	0	0	502	10,000	10,502	0	0	0	0	10,502	0	0	0	0	0	10,502
0	123	COMMUNICATION SYSTEM	CW	S4	04	200	300	650	1,900	400	3,450	50	3,500	0	0	0	0	3,500	0	0	0	0	0	3,500
Sub-total						25,445	44,048	30,195	33,496	29,463	162,647	178,455	341,102	0	0	1,960	0	339,142	0	0	0	0	0	341,102
<u>WAS906982 HUMBER WWTP UPGRADES</u>																								
0	2	CHLORINE FACILITY UPGRADE	CW	S2	01	939	34	0	0	0	973	0	973	0	0	0	0	973	0	0	0	0	0	973
0	5	FLOOD PROTECTION	CW	S3	02	300	0	0	0	0	300	0	300	0	0	0	0	300	0	0	0	0	0	300
0	6	NEW SUBSTATION	CW	S2	03	479	3	0	0	0	482	0	482	0	0	0	0	482	0	0	0	0	0	482
0	7	ELECTRICAL CONDITION ASSESSMENT RECOMMENDATIONS	CW	S2	01	1,168	4,943	2,900	1,000	0	10,011	0	10,011	0	0	0	0	10,011	0	0	0	0	0	10,011
0	8	NEW GROUNDSKEEPING BUILDING	CW	S2	01	227	0	0	0	0	227	0	227	0	0	0	0	227	0	0	0	0	0	227
0	29	ADMIN BUILDING EXPANSION	CW	S2	04	250	300	100	260	260	1,170	50	1,220	0	0	0	0	1,220	0	0	0	0	0	1,220
0	52	HVAC UPGRADES	CW	S2	03	4,684	3,357	18	3	0	8,062	0	8,062	0	0	0	0	8,062	0	0	0	0	0	8,062
0	68	CITY IMPROVEMENTS RE: TH COGEN	CW	S6	04	0	1,000	4,000	3,000	455	8,455	0	8,455	0	0	0	0	8,455	0	0	0	0	0	8,455
0	75	HYDRAULIC ASSESSMENT	CW	S2	03	200	0	0	0	0	200	0	200	0	0	0	0	200	0	0	0	0	0	200
0	81	BLOWER REPLACEMENT	CW	S4	03	250	250	0	100	200	800	18,100	18,900	0	0	0	0	18,900	0	0	0	0	0	18,900
0	82	DIGESTERS CLEANING REHAB	CW	S6	03	0	0	410	825	825	2,060	2,050	4,110	0	0	0	0	4,110	0	0	0	0	0	4,110
0	83	ELECTRICAL UPGRADES - FUTURE	CW	S6	01	0	0	0	0	0	0	2,000	2,000	0	0	0	0	2,000	0	0	0	0	0	2,000
0	84	DIGESTER CLEANING & REHAB - FUTURE	CW	S6	03	0	0	0	0	0	0	3,075	3,075	0	0	0	0	3,075	0	0	0	0	0	3,075
0	86	BUILDING UPGRADES ENGINEERING	CW	S2	03	60	10	0	0	0	70	0	70	0	0	0	0	70	0	0	0	0	0	70
0	90	ELEC CONDITION ASSESSMENT RECOMMENDATIONS-2016 SC	CW	S3	01	-318	-2,574	-700	100	23	-3,469	23	-3,446	0	0	0	0	-3,446	0	0	0	0	0	-3,446
0	91	ADMIN BUILDING EXPANSION - ENGINEERING-2016 SC	CW	S3	04	50	100	310	-100	-235	125	-25	100	0	0	0	0	100	0	0	0	0	0	100
0	92	BUILDING UPGRADES ENGINEERING-2016 SC	CW	S3	03	-51	-10	0	0	0	-61	0	-61	0	0	0	0	-61	0	0	0	0	0	-61
0	93	NEW GROUNDSKEEPING BUILDING-2016 SC	CW	S3	01	-227	0	0	0	0	-227	0	-227	0	0	0	0	-227	0	0	0	0	0	-227
0	94	CHLORINE FACILITY UPGRADE-2016 SC	CW	S3	01	-793	356	0	0	0	-437	0	-437	0	0	0	0	-437	0	0	0	0	0	-437
0	95	REPLACEMENT OF WASTE GAS BURNERS	CW	S4	03	6,200	2,700	400	0	0	9,300	0	9,300	0	0	0	0	9,300	0	0	0	0	0	9,300

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By								
					2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other 2	Debt - Recoverable	Total Financing
WAS907097 ASHBRIDGES BAY WWTP - BUILDING SERVIC																						
0 58	CONTROLLED SUBS IDENTIFICATION&ABATEMENT-2016 SC	CW	S3	02	0	100	0	0	0	100	0	100	0	0	0	0	100	0	0	0	0	100
0 59	CITY IMPROVEMENTS RE: TH COGEN-2016 SC	CW	S3	04	-750	-400	-700	1,950	0	100	50	150	0	0	0	0	150	0	0	0	0	150
0 60	BLOWER BLDG & OLD NORTH SUBSTATION IMPRO-2016 SC	CW	S3	04	-1,110	-1,550	855	2,445	30	670	30	700	0	0	0	0	700	0	0	0	0	700
Sub-total					900	1,400	3,350	4,555	180	10,385	2,580	12,965	0	0	0	0	12,965	0	0	0	0	12,965
WAS907098 ASHBRIDGES BAY WWTP - EFFLUENT SYSTE																						
0 1	DISINFECTION ENGINEERING	CW	S2	02	3,710	5,339	2,000	950	167	12,166	123	12,289	0	0	989	0	11,300	0	0	0	0	12,289
0 2	OUTFALL CONSTRUCTION	CW	S6	02	0	0	10,000	75,000	75,000	160,000	167,000	327,000	0	0	12,107	0	314,893	0	0	0	0	327,000
0 13	ABTP OUTFALL ASSESSMENT	CW	S2	02	1,020	0	0	0	0	1,020	0	1,020	0	0	82	0	938	0	0	0	0	1,020
0 14	OUTFALL ENGINEERING	CW	S2	02	7,000	7,000	1,400	5,000	4,000	24,400	8,800	33,200	0	0	2,671	0	30,529	0	0	0	0	33,200
0 23	OUTFALL ENGINEERING-2016 SC	CW	S3	02	-1,000	0	3,100	0	1,000	3,100	3,129	6,229	0	0	501	0	5,728	0	0	0	0	6,229
0 25	OUTFALL ASSESSMENT-2016 SC	CW	S3	02	-1,010	940	0	0	0	-70	0	-70	0	0	13	0	-83	0	0	0	0	-70
0 26	DISINFECTION SYSTEM CONSTRUCTION	CW	S6	02	0	40,000	45,000	45,000	40,000	170,000	15,500	185,500	0	0	14,930	0	170,570	0	0	0	0	185,500
0 27	DISINFECTION ENGINEERING-2016 SC	CW	S3	02	-2,210	-1,839	4,200	10	0	161	0	161	0	0	13	0	148	0	0	0	0	161
Sub-total					7,510	51,440	65,700	125,960	120,167	370,777	194,552	565,329	0	0	31,306	0	534,023	0	0	0	0	565,329
WAS907099 ASHBRIDGES BAY WWTP - LIQUID TREATME																						
0 1	FINE BUBBLE AERATION - TANK #2	CW	S2	03	2,370	0	0	0	0	2,370	0	2,370	0	0	192	0	2,178	0	0	0	0	2,370
0 2	ODOUR CONTROL - PRIMARY TANKS 7-9 UPGRADES	CW	S6	04	0	0	0	0	0	0	61,100	61,100	0	0	2,261	0	58,839	0	0	0	0	61,100
0 3	PRIMARY TREATMENT UPGRADE CONT #1	CW	S2	03	27,000	25,000	15,131	0	0	67,131	0	67,131	0	0	5,403	0	61,728	0	0	0	0	67,131
0 5	FINE BUBBLE AERATION UPGRADES	CW	S6	03	0	0	0	200	1,000	1,200	120,000	121,200	0	0	4,486	0	116,714	0	0	0	0	121,200
0 6	M & T PUMPING STATION CRITICAL REPAIRS	CW	S2	03	5,670	0	0	0	0	5,670	0	5,670	0	0	0	0	5,670	0	0	0	0	5,670
0 7	PRIMARY AND FINAL TANK UPGRADES	CW	S2	03	595	0	0	0	0	595	0	595	0	0	48	0	547	0	0	0	0	595
0 10	INTEGRATED PUMPING STATION (IPS) - ENGINEERING	CW	S2	03	10,117	8,437	10,000	6,000	6,000	40,554	14,000	54,554	0	0	0	0	54,554	0	0	0	0	54,554
0 12	WORK AREA 1 REHAB	CW	S2	03	2	0	0	0	0	2	0	2	0	0	0	0	2	0	0	0	0	2
0 39	INTEGRATED PUMPING STATION (IPS) - CONSTRUCTION	CW	S2	03	1,000	25,000	45,000	45,000	50,000	166,000	159,000	325,000	0	0	0	0	325,000	0	0	0	0	325,000

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAS907099 ASHBRIDGES BAY WWTP - LIQUID TREATMENT																								
0	64	INTEGRATED PUMPING STATION (IPS) - CONS-2016 SC	CW	S3	03	-1,000	-25,000	-35,000	0	-5,000	-66,000	66,000	0	0	0	0	0	0	0	0	0	0	0	
0	65	INTEGRATED PUMPING STATION (IPS) - ENG-2016 SC	CW	S3	03	-4,712	-2,476	-2,000	2,000	2,000	-5,188	5,750	562	0	0	0	562	0	0	0	0	0	562	
0	66	M & T PUMPING STATION CRITICAL REPAIRS-2016 SC	CW	S3	03	-2,521	2,250	0	0	0	-271	0	-271	0	0	0	-271	0	0	0	0	0	-271	
0	67	Primary and Final Tank Upgrades-2016 SC	CW	S3	03	106	0	0	0	0	106	0	106	0	0	9	97	0	0	0	0	0	106	
0	68	FINE BUBBLE AERATION - TANK #2-2016 SC	CW	S3	03	-259	500	0	0	0	241	0	241	0	0	20	221	0	0	0	0	0	241	
0	69	P BLDG HEADWORKS UPGRADE-2016 SC	CW	S3	03	8,605	10	-8,303	0	0	312	0	312	0	0	26	286	0	0	0	0	0	312	
0	70	WORK AREA 1 REHAB-2016 SC	CW	S3	03	4	3	0	0	0	7	0	7	0	0	0	7	0	0	0	0	0	7	
Sub-total						46,977	33,724	24,828	53,200	54,000	212,729	425,850	638,579	0	0	12,445	0	626,134	0	0	0	0	0	638,579
WAS907100 ASHBRIDGES BAY WWTP - SOLIDS & GAS HA																								
0	3	WASTE ACTIVATED SLUDGE UPGRADE - ENGINEERING	CW	S2	03	2,000	4,596	2,000	2,000	2,000	12,596	2,100	14,696	0	0	1,183	0	13,513	0	0	0	0	0	14,696
0	4	DIGESTERS 9-12 REFURBISHMENT	CW	S2	03	600	11,950	10,700	4,710	4,710	32,670	1,050	33,720	0	0	2,713	0	31,007	0	0	0	0	0	33,720
0	8	BIOSOLIDS PELLETIZER RETROFIT	CW	S2	03	400	0	0	0	0	400	0	400	0	0	0	400	0	0	0	0	0	400	
0	22	WASTE ACTIVATED SLUDGE UPGRADE - CONSTRUCTION	CW	S6	03	0	5,000	15,000	20,000	15,000	55,000	30,000	85,000	0	0	3,146	0	81,854	0	0	0	0	0	85,000
0	25	PELLETIZER TRUCK LOADING FACILITY UPGRADES	CW	S2	03	725	500	500	0	0	1,725	0	1,725	0	0	0	1,725	0	0	0	0	0	1,725	
0	40	PELLETIZER TRUCK LOADING FACILITY UPGRADES-2016 SC	CW	S3	03	-625	467	0	1,000	0	842	0	842	0	0	0	842	0	0	0	0	0	842	
0	41	BIOSOLIDS PELLETIZER RETROFIT-2016 SC	CW	S3	03	0	400	0	0	0	400	0	400	0	0	0	400	0	0	0	0	0	400	
0	43	WASTE ACTIVATED SLUDGE UPGRADE - ENG-2016 SC	CW	S3	03	37	-1,096	1,092	0	0	33	-498	-465	0	0	-38	0	-427	0	0	0	0	-465	
0	44	DIGESTERS 9-12 REFURBISH-2016 SC	CW	S3	03	2,400	-2,300	1,176	7,000	-4,000	4,276	-100	4,176	0	0	335	0	3,841	0	0	0	0	4,176	
Sub-total						5,537	19,517	30,468	34,710	17,710	107,942	32,552	140,494	0	0	7,339	0	133,155	0	0	0	0	0	140,494
WAS907101 ASHBRIDGES BAY WWTP - O&M UPGRADES																								
0	5	BOILER #4 DESIGN	CW	S2	03	57	0	0	0	0	57	0	57	0	0	0	57	0	0	0	0	0	57	
0	6	MESI UPGRADES	CW	S2	03	3,100	2,500	0	0	0	5,600	0	5,600	0	0	0	5,600	0	0	0	0	0	5,600	
0	7	MISC MECH REHAB	CW	S2	03	6,500	3,000	0	0	0	9,500	0	9,500	0	0	0	9,500	0	0	0	0	0	9,500	
0	21	MESI UPGRADES - FUTURE YEAR	CW	S6	03	0	0	0	0	3,200	3,200	16,000	19,200	0	0	0	19,200	0	0	0	0	0	19,200	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By								
					2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable	Total Financing
<u>WAS907101 ASHBRIDGES BAY WWTP - O&M UPGRADES</u>																						
0 29	MISC MECH REHAB-2016 SC	CW	S3	03	-1,901	3,500	1,900	0	0	3,499	0	3,499	0	0	0	0	3,499	0	0	0	0	3,499
0 30	MESI UPGRADES-2016 SC	CW	S3	03	-202	485	3,074	3,167	0	6,524	0	6,524	0	0	0	0	6,524	0	0	0	0	6,524
0 31	BOILER #4 DESIGN-2016 SC	CW	S3	03	-37	47	6	0	0	16	0	16	0	0	0	0	16	0	0	0	0	16
Sub-total					7,517	9,532	4,980	3,167	3,200	28,396	16,000	44,396	0	0	0	0	44,396	0	0	0	0	44,396
<u>WAS907102 ASHBRIDGES BAY WWTP - ODOUR CONTROL</u>																						
0 6	BIOFILTERS UPGRADE	CW	S2	03	11,542	8,400	122	0	0	20,064	0	20,064	0	0	1,615	0	18,449	0	0	0	0	20,064
0 13	D BUILDING TREATMENT & BIOFILTER	CW	S2	03	1,145	0	0	0	0	1,145	0	1,145	0	0	92	0	1,053	0	0	0	0	1,145
0 36	BIOFILTERS UPGRADE & REPLACEMENT-2016 SC	CW	S3	03	-2,478	-1,060	0	0	0	-3,538	0	-3,538	0	0	-285	0	-3,253	0	0	0	0	-3,538
0 37	D BUILDING TREATMENT & BIOFILTER-2016 SC	CW	S3	03	-1,045	894	0	0	0	-151	0	-151	0	0	-12	0	-139	0	0	0	0	-151
Sub-total					9,164	8,234	122	0	0	17,520	0	17,520	0	0	1,410	0	16,110	0	0	0	0	17,520
<u>WAS907104 HUMBER WWTP - LIQUID TREATMENT & HANI</u>																						
0 2	SECONDARY TREATMENT UPGRADES	CW	S2	03	6,134	4,025	3,600	3,582	2,000	19,341	1,875	21,216	0	0	1,708	0	19,508	0	0	0	0	21,216
0 17	SECONDARY TREATMENT UPGRADES - NORTH PLANT	CW	S6	03	0	0	0	0	150	150	55,350	55,500	0	0	2,054	0	53,446	0	0	0	0	55,500
0 19	SECONDARY TREATMENT UPGRADES - SOUTH - CONS	CW	S2	03	20,000	45,000	45,000	45,000	45,000	200,000	39,800	239,800	0	0	19,306	0	220,494	0	0	0	0	239,800
0 22	SECONDARY TREATMENT UPGRADES SOUTH CONS-2016 SC	CW	S3	03	-15,000	0	0	0	0	-15,000	5,200	-9,800	0	0	-788	0	-9,012	0	0	0	0	-9,800
0 23	SECONDARY TREATMENT UPGRADES - SOUTH - ENG-2016 SC	CW	S3	03	-1,551	-742	-250	-250	1,250	-1,543	862	-681	0	0	-54	0	-627	0	0	0	0	-681
Sub-total					9,583	48,283	48,350	48,332	48,400	202,948	103,087	306,035	0	0	22,226	0	283,809	0	0	0	0	306,035
<u>WAS907105 HUMBER WWTP - O&M UPGRADES</u>																						
0 1	GAS COMPRESSOR SYSTEM UPGRADES	CW	S2	03	5,877	4,850	0	0	0	10,727	0	10,727	0	0	0	0	10,727	0	0	0	0	10,727
0 29	GAS COMPRESSOR SYSTEM UPGRADES-2016 SC	CW	S3	03	779	-1,846	0	0	0	-1,067	0	-1,067	0	0	0	0	-1,067	0	0	0	0	-1,067
0 30	LIQUID STREAM UPGRADES-2016 SC	CW	S3	03	50	316	0	0	0	366	0	366	0	0	29	0	337	0	0	0	0	366
Sub-total					6,706	3,320	0	0	0	10,026	0	10,026	0	0	29	0	9,997	0	0	0	0	10,026
<u>WAS907106 HUMBER WWTP - ODOUR CONTROL</u>																						
0 1	ODOUR CONTROL IMPLEMENTATION - PHASE 1	CW	S2	02	11,750	3,385	0	0	0	15,135	0	15,135	0	0	1,218	0	13,917	0	0	0	0	15,135

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAS908143 Georgetown South City Infrastructure Upgrades</u>																									
0	6	GEORGETOWN SOUTH CITY INFRA UPGRADES - FUTURE	CW	S4	05	5,680	5,680	5,680	5,680	0	22,720	0	22,720	0	0	0	0	22,720	0	0	0	0	0	22,720	
Sub-total						5,680	5,680	5,680	5,680	0	22,720	0	22,720	0	0	0	0	22,720	0	0	0	0	0	22,720	
<u>WASWP003 EMERY CREEK POND</u>																									
0	1	EMERY CREEK POND	CW	S2	04	1,073	0	0	0	0	1,073	0	1,073	0	0	86	0	987	0	0	0	0	0	1,073	
0	14	EMERY CREEK POND-2016 SC	CW	S3	04	6,307	5,793	50	0	0	12,150	0	12,150	0	0	978	0	11,172	0	0	0	0	0	12,150	
Sub-total						7,380	5,793	50	0	0	13,223	0	13,223	0	0	1,064	0	12,159	0	0	0	0	0	13,223	
<u>WASWP050 EQUIPMENT REPLACEMENT & REHABILITATION</u>																									
0	35	MTI REAL TIME CONTROL	CW	S2	04	0	2,000	2,000	0	0	4,000	0	4,000	0	0	0	0	4,000	0	0	0	0	0	4,000	
1	78	North Primaries Pumping Equipment	CW	S2	03	4,670	3,220	1,890	20	30	9,830	0	9,830	0	0	0	0	9,830	0	0	0	0	0	9,830	
0	117	REHAB OF SOUTH PRIMARY CLARIFIERS	CW	S2	03	188	0	0	0	0	188	0	188	0	0	0	0	188	0	0	0	0	0	188	
0	129	EQUIPMENT REPLACEMENT-2016 SC	CW	S3	03	-3,900	2,360	2,668	3,632	-30	4,730	0	4,730	0	0	0	0	4,730	0	0	0	0	0	4,730	
0	130	REHAB OF SOUTH PRIMARY CLARIFIERS-2016 SC	CW	S3	03	-158	124	0	0	0	-34	0	-34	0	0	0	0	-34	0	0	0	0	0	-34	
0	131	MTI CHAMBER UPGRADES AND PCS-2016 SC	CW	S3	04	118	-2,000	-2,000	0	0	-3,882	0	-3,882	0	0	0	0	-3,882	0	0	0	0	0	-3,882	
Sub-total						918	5,704	4,558	3,652	0	14,832	0	14,832	0	0	0	0	14,832	0	0	0	0	0	14,832	
Total Program Expenditure						468,198	634,676	690,144	843,387	791,567	3,427,972	3,852,369	7,280,341	0	0	243,194	0	0	06,990,917	0	0	46,230	0	0	7,280,341

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2016 Recommended Capital Budget; 2017 to 2025 Recommended Capital Plan

Wastewater Program

Sub- Project No. Project Name Priority SubProj No. Sub-project Name Ward Stat. Cat.					Current and Future Year Cash Flow Commitments and Estimates						Current and Future Year Cash Flow Commitments and Estimates Financed By										
					2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserve Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt
Financed By:																					
Development Charges					17,255	26,235	23,490	27,458	21,781	116,219	126,975	243,194	0	0	243,194	0	0	0	0	0	243,194
Reserve Funds (Ind."XR" Ref.)					450,943	604,421	662,634	810,904	764,761	3,293,663	3,697,254	6,990,917	0	0	0	06,990,917	0	0	0	0	6,990,917
Other2 (External)					0	4,020	4,020	5,025	5,025	18,090	28,140	46,230	0	0	0	0	0	46,230	0	0	46,230
Total Program Financing					468,198	634,676	690,144	843,387	791,567	3,427,972	3,852,369	7,280,341	0	0	243,194	06,990,917	0	0	46,230	0	7,280,341

Status Code	Description
S2	S2 Prior Year (With 2016 and/or Future Year Cashflow)
S3	S3 Prior Year - Change of Scope 2016 and/or Future Year Cost(Cashflow)
S4	S4 New - Stand-Alone Project (Current Year Only)
S5	S5 New (On-going or Phased Projects)
S6	S6 New - Future Year (Commencing in 2017 & Beyond)

Category Code	Description
01	Health and Safety C01
02	Legislated C02
03	State of Good Repair C03
04	Service Improvement and Enhancement C04
05	Growth Related C05
06	Reserved Category 1 C06
07	Reserved Category 2 C07

Appendix 4

2016 Recommended Cash Flow and Future Year Commitments

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By													
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAT000004 HORGAN W.T.P. EXPANSION</u>																									
0	5	PLANT EXPANSION - CONSTRUCTION	CW	S2	05	472	0	0	0	0	472	0	472	0	0	151	0	170	0	0	151	0	0	472	
0	18	SUPERNATANT AND FORCEMAIN INSTALLATION	CW	S2	05	4,500	0	0	0	0	4,500	0	4,500	0	0	1,438	0	3,062	0	0	0	0	0	4,500	
0	35	PLANT EXPANSION - CONSTRUCTION-2016 SC	CW	S3	05	-413	0	0	0	0	-413	0	-413	0	0	-131	0	-150	0	0	-132	0	0	-413	
0	36	SUPERNATANT & FORCEMAIN-2016 SC	CW	S3	05	-4,500	0	0	0	0	-4,500	0	-4,500	0	0	-1,438	0	-3,062	0	0	0	0	0	-4,500	
0	37	PLANT EXPANSION - DESIGN & CONSTR ADMIN - 2016 SC	CW	S3	05	50	0	0	0	0	50	0	50	0	0	16	0	18	0	0	16	0	0	50	
Sub-total						109	0	0	0	0	109	0	109	0	0	36	0	38	0	0	35	0	0	109	
<u>WAT000014 WATER STORAGE EXPANSION</u>																									
0	50	MILLIKEN PS & RESERVOIR-DESIGN&CONT ADMIN-2016	CW	S3	05	130	0	0	0	0	130	0	130	0	0	52	0	31	0	0	47	0	0	130	
0	51	DUFFERIN RES.EXT-DESIGN AND CONT. ADMIN - 2016 SC	CW	S3	05	5	18	0	0	0	23	0	23	0	0	14	0	9	0	0	0	0	0	23	
Sub-total						135	18	0	0	0	153	0	153	0	0	66	0	40	0	0	47	0	0	153	
<u>WAT000018 CLARK RESIDUE MGMT. FACILITIES</u>																									
0	24	RESIDUALS RETROFITS & UPGRADES	CW	S2	02	950	0	0	0	0	950	0	950	0	0	0	0	950	0	0	0	0	0	950	
0	28	RESIDUALS RETROFITS AND UPGRADES-2016 SC	CW	S3	02	-750	994	425	0	0	669	0	669	0	0	0	0	669	0	0	0	0	0	669	
Sub-total						200	994	425	0	0	1,619	0	1,619	0	0	0	0	1,619	0	0	0	0	0	0	1,619
<u>WAT000021 WATER EFFICIENCY PROGRAM</u>																									
0	10	ICI INDOOR WATER AUDIT	CW	S2	05	300	300	0	0	0	600	0	600	0	0	600	0	0	0	0	0	0	0	600	
0	11	PUBLIC EDUCATION & PROMOTIONS	CW	S2	05	150	150	0	0	0	300	0	300	0	0	300	0	0	0	0	0	0	0	300	
0	12	ANCILLARY COSTS	CW	S2	05	70	70	0	0	0	140	0	140	0	0	140	0	0	0	0	0	0	0	140	
Sub-total						520	520	0	0	0	1,040	0	1,040	0	0	1,040	0	0	0	0	0	0	0	0	1,040
<u>WAT000340 ISLAND PLANT WINTERIZATION</u>																									
0	1	PLANT WINTERIZATION & SUMMERIZATION	CW	S2	04	515	0	0	0	0	515	0	515	0	0	0	0	515	0	0	0	0	0	515	
0	15	PLANT WINTERIZATION & SUMMERIZATION-2016 SC	CW	S3	04	-111	0	0	0	0	-111	0	-111	0	0	0	0	-111	0	0	0	0	0	-111	
Sub-total						404	0	0	0	0	404	0	404	0	0	0	0	404	0	0	0	0	0	0	404
<u>WAT000363 ENGINEERING STUDIES</u>																									
0	2	IMPROVED TREATMENT STUDIES	CW	S2	04	207	50	0	0	0	257	0	257	0	0	0	0	257	0	0	0	0	0	257	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAT000363 ENGINEERING STUDIES																							
0 18	CONTROLLED SUBSTANCES ID AND ABATEMENT	CW	S2	02	68	70	60	0	0	198	0	198	0	0	0	0	198	0	0	0	0	0	198
0 31	ENERGY EFFICIENCY IMPLEMENTATION	CW	S2	04	100	0	0	0	0	100	0	100	0	0	0	0	100	0	0	0	0	0	100
0 38	CORROSION CONTROL	CW	S2	02	404	0	0	0	0	404	0	404	0	0	25	0	379	0	0	0	0	0	404
0 64	IMPROVED TREATMENT STUDIES-2016 SC	CW	S3	04	160	210	0	0	0	370	0	370	0	0	0	0	182	0	0	188	0	0	370
0 65	SCRUBBER AND TONNER CONNECTION IMPROVEMENTS	CW	S4	04	100	915	730	105	5	1,855	0	1,855	0	0	0	0	1,855	0	0	0	0	0	1,855
0 68	CONTROLLED SUBSTANCES ID AND ABATEMENT-2016 SC	CW	S3	02	132	130	140	0	0	402	0	402	0	0	0	0	402	0	0	0	0	0	402
0 69	ENERGY EFFICIENCY IMPLEMENTATION-2016 SC	CW	S3	04	-95	105	125	0	0	135	0	135	0	0	0	0	135	0	0	0	0	0	135
0 71	CORROSION CONTROL-2016 SC	CW	S3	02	193	0	0	0	0	193	0	193	0	0	12	0	181	0	0	0	0	0	193
Sub-total					1,269	1,480	1,055	105	5	3,914	0	3,914	0	0	37	0	3,689	0	0	188	0	0	3,914
WAT906334 BUSINESS SYSTEM INFRASTRUCTURE - PW																							
0 7	NETWORK EQUIPMENT REPLACEMENT	CW	S2	03	38	0	0	0	0	38	0	38	0	0	0	0	38	0	0	0	0	0	38
0 8	NETWORK CABLE LIFECYCLE REPLACEMENT	CW	S2	03	1,834	2,050	1,500	0	0	5,384	0	5,384	0	0	0	0	5,384	0	0	0	0	0	5,384
0 9	TRUNK RADIO SYSTEM	CW	S2	04	200	100	250	750	250	1,550	280	1,830	0	0	0	0	1,830	0	0	0	0	0	1,830
0 12	PCS LEGACY ALARM IMPROVEMENT	CW	S2	04	600	0	0	0	0	600	0	600	0	0	0	0	600	0	0	0	0	0	600
0 23	RELIABILITY IMPROVEMENT PROGRAM	CW	S2	04	885	0	0	0	0	885	0	885	0	0	0	0	885	0	0	0	0	0	885
0 41	BUSINESS & TECH IMPROVEMENT - PHASE 2	CW	S2	04	3,493	4,405	5,710	6,715	3,900	24,223	3,660	27,883	0	0	0	0	27,883	0	0	0	0	0	27,883
0 42	PCS UPGRADES FOR WATER SUPPLY	CW	S2	04	1,284	219	0	0	0	1,503	0	1,503	0	0	0	0	1,503	0	0	0	0	0	1,503
0 67	SCADA UPGRADES FOR WWT - II	CW	S2	04	415	400	600	350	0	1,765	0	1,765	0	0	0	0	1,765	0	0	0	0	0	1,765
0 76	NETWORK EQUIPMENT LIFE CYCLE REPLACEMENT-2016 SC	CW	S3	03	3	0	0	0	0	3	0	3	0	0	0	0	3	0	0	0	0	0	3
0 77	SCADA UPGRADES FOR WWT-2016 SC	CW	S3	04	0	292	50	445	300	1,087	-3,500	-2,413	0	0	0	0	-2,413	0	0	0	0	0	-2,413
0 78	NETWORK CABLE LIFE CYCLE REPLACEMENT-2016 SC	CW	S3	03	-1,739	-2,050	-1,500	0	0	-5,289	0	-5,289	0	0	0	0	-5,289	0	0	0	0	0	-5,289
0 79	RELIABILITY IMPROVEMENT PROGRAM-2016 SC	CW	S3	04	-305	585	400	0	0	680	0	680	0	0	0	0	680	0	0	0	0	0	680
0 80	PCS LEGACY ALARM IMPROVEMENT -2016 SC	CW	S3	04	-200	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 81	PCS UPGRADES FOR WATER SUPPLY-2016 SC	CW	S3	04	188	-187	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By								
					2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable	Total Financing
WAT906334 BUSINESS SYSTEM INFRASTRUCTURE - PW																						
0 82	SCADA UPGRADES FOR WWT - II -2016 SC	CW	S3	04	1,222	1,126	0	100	400	2,848	0	2,848	0	0	0	0	2,848	0	0	0	0	2,848
0 84	TRUNK RADIO SYSTEM-2016 SC	CW	S3	04	-170	300	-250	-750	-250	-1,120	-280	-1,400	0	0	0	0	-1,400	0	0	0	0	-1,400
0 85	NETWORK IMPROVEMENTS	CW	S4	04	1,813	1,473	340	0	0	3,626	0	3,626	0	0	0	0	3,626	0	0	0	0	3,626
Sub-total					9,561	8,913	7,100	7,610	4,600	37,784	160	37,944	0	0	0	0	37,944	0	0	0	0	37,944
WAT906340 METERING & METER READING SYS																						
0 2	AUTOMATED METER READING SYSTEM	CW	S2	04	30,367	2,515	0	0	0	32,882	0	32,882	0	0	0	0	32,882	0	0	0	0	32,882
0 17	AUTOMATED METER READING SYSTEM-2016 SC	CW	S3	04	-22,068	4,465	2,000	915	545	-14,143	0	-14,143	0	0	0	0	-14,143	0	0	0	0	-14,143
Sub-total					8,299	6,980	2,000	915	545	18,739	0	18,739	0	0	0	0	18,739	0	0	0	0	18,739
WAT906467 AVENUE ROAD TRUNKMAIN REPLACEMENT																						
0 2	AVENUE RD WM CONSTRUCTION - HI LEVEL TO LAWRENCE	CW	S2	03	1,521	0	0	0	0	1,521	0	1,521	0	0	767	0	470	0	0	284	0	1,521
0 6	JOS-AVENUE RD WM ENG-HI LEVEL-LAWRENCE	CW	S2	03	90	0	0	0	0	90	0	90	0	0	45	0	28	0	0	17	0	90
0 27	JOS-AVENUEWM ENG - HI LEVEL TO LAWRENCE-2016 SC	CW	S3	03	35	0	0	0	0	35	0	35	0	0	18	0	10	0	0	7	0	35
0 28	AVENUE RD WM CONS - HI LEVEL TO LAWRENCE - 2016 SC	CW	S3	03	-521	0	0	0	0	-521	0	-521	0	0	-263	0	-161	0	0	-97	0	-521
Sub-total					1,125	0	0	0	0	1,125	0	1,125	0	0	567	0	347	0	0	211	0	1,125
WAT906468 HORGAN TRUNK MAIN EXPANSION																						
0 1	JOS - HORGAN TO ELLESMERE WM - ENGINEERING	CW	S2	05	1,100	900	600	50	50	2,700	0	2,700	0	0	1,025	0	799	0	0	876	0	2,700
0 3	JOS - HORGAN TO ELLESMERE WM - CONSTRUCTION	CW	S2	05	5,000	30,000	26,000	2,000	0	63,000	0	63,000	0	0	23,911	0	18,639	0	0	20,450	0	63,000
0 49	JOS - HORGAN TO ELLESMERE WM - ENG - 2016 SC	CW	S3	05	-1,100	-900	-600	-50	-50	-2,700	0	-2,700	0	0	-1,025	0	-799	0	0	-876	0	-2,700
0 50	JOS - HORGAN TO ELLESMERE WM - CONS-2016 SC	CW	S3	05	-5,000	-30,000	-26,000	-2,000	0	-63,000	0	-63,000	0	0	-23,911	0	-18,639	0	0	-20,450	0	-63,000
Sub-total					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WAT906470 ISLAND W.T.P. R&R																						
0 8	CHEMICAL & RESIDUALS MANAGMENT ENGINEERING	CW	S2	02	680	485	250	250	50	1,715	10	1,725	0	0	0	0	1,725	0	0	0	0	1,725
0 11	CHEMICAL & RESIDUALS MANAGMENT CONST	CW	S2	02	1,850	7,000	7,000	7,000	2,000	24,850	0	24,850	0	0	1,512	0	23,338	0	0	0	0	24,850
0 28	CHEMICAL & RESIDUALS MANAGMENT ENGINEERING-2016 SC	CW	S3	02	-410	209	90	150	350	389	90	479	0	0	0	0	479	0	0	0	0	479

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By													
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAT906470 ISLAND W.T.P. R&R</u>																									
0	29	CHEMICAL & RESIDUALS MANAGM CONST-2016 SC	CW	S3	02	150	1,000	400	-4,500	1,500	-1,450	1,500	50	0	0	3	0	47	0	0	0	0	0	50	
Sub-total						2,270	8,694	7,740	2,900	3,900	25,504	1,600	27,104	0	0	1,515	0	25,589	0	0	0	0	0	27,104	
<u>WAT906481 DISTRICT WATERMAINS - NEW</u>																									
0	1	DIST W/MAINS NEW	CW	S2	05	500	0	0	0	0	500	0	500	0	0	500	0	0	0	0	0	0	0	500	
0	14	NEW WM -2016 SC	CW	S3	05	-450	500	0	0	0	50	0	50	0	0	50	0	0	0	0	0	0	0	50	
Sub-total						50	500	0	0	0	550	0	550	0	0	550	0	0	0	0	0	0	0	550	
<u>WAT906483 PW ENGINEERING</u>																									
0	2	CAPITAL PRGGM & FACILITY ASSET PLANNING	CW	S2	03	1,669	1,800	500	0	0	3,969	0	3,969	0	0	0	0	3,969	0	0	0	0	0	3,969	
0	5	WATERMAIN ASSET PLANNING	CW	S2	03	985	685	135	0	0	1,805	0	1,805	0	0	451	0	1,354	0	0	0	0	0	1,805	
0	7	EASEMENT ACQUISITION	CW	S2	04	300	0	0	0	0	300	0	300	0	0	0	0	300	0	0	0	0	0	300	
0	22	WATER LOSS REDUCTION STRATEGY	CW	S2	03	570	1,300	1,000	1,000	0	3,870	0	3,870	0	0	0	0	3,870	0	0	0	0	0	3,870	
0	37	ASSET MGMT SYSTEM IMPLEMENTATION	CW	S4	04	100	1,000	1,000	1,000	1,000	4,100	3,500	7,600	0	0	1,900	0	5,700	0	0	0	0	0	7,600	
0	52	JOS UPDATE PHASE II	CW	S2	05	1,000	500	0	0	0	1,500	0	1,500	0	0	0	0	1,500	0	0	0	0	0	1,500	
0	59	WATERMAIN ASSET PLANNING-2016 SC	CW	S3	03	-175	313	456	145	0	739	0	739	0	0	184	0	-451	0	0	1,006	0	0	739	
0	60	JOS UPDATE PHASE II-2016 SC	CW	S3	05	-500	500	500	0	0	500	0	500	0	0	1,000	0	-1,500	0	0	1,000	0	0	500	
0	61	CAPITAL PROG& FACILITY ASSET PLANNING-2016 SC	CW	S3	03	-318	1,868	2,700	585	0	4,835	0	4,835	0	0	0	0	4,835	0	0	0	0	0	4,835	
0	62	WATER LOSS REDUCTION STRATEGY-2016 SC	CW	S3	03	-363	-800	338	0	1,000	175	0	175	0	0	0	0	175	0	0	0	0	0	175	
0	63	EASEMENT ACQUISITION-2016 SC	CW	S3	04	200	500	0	0	0	700	0	700	0	0	0	0	700	0	0	0	0	0	700	
Sub-total						3,468	7,666	6,629	2,730	2,000	22,493	3,500	25,993	0	0	3,535	0	20,452	0	0	2,006	0	0	25,993	
<u>WAT906749 DOWNTOWN W/M ENHANCEMENT</u>																									
0	1	JOS - GERRARD ST WM - ENGINEERING	CW	S2	03	15	7	0	0	0	22	0	22	0	0	4	0	2	0	0	16	0	0	22	
0	4	JOS - GERRARD ST WM - CONSTRUCTION	CW	S2	03	7,806	0	0	0	0	7,806	0	7,806	0	0	1,554	0	283	0	0	5,969	0	0	7,806	
0	42	JOS - GERRARD ST WM - CONSTRUCTION -2016 SC	CW	S3	03	-7,161	5,300	0	0	0	-1,861	0	-1,861	0	0	-371	0	-67	0	0	-1,423	0	0	-1,861	
0	43	JOS - GERRARD ST WM - ENGINEERING-2016 SC	CW	S3	03	55	5	0	0	0	60	0	60	0	0	11	0	3	0	0	46	0	0	60	
Sub-total						715	5,312	0	0	0	6,027	0	6,027	0	0	1,198	0	221	0	0	4,608	0	0	6,027	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAT906752 TRANSMISSION R&R</u>																							
0 49	TRUNK WATERMAIN REHAB	CW	S2	03	545	0	0	0	0	545	0	545	0	0	0	0	545	0	0	0	0	0	545
0 51	CAST IRON TRUNK REPLC - PHASE 2	CW	S2	03	13,574	2,420	113	30	0	16,137	0	16,137	0	0	0	0	16,137	0	0	0	0	0	16,137
0 52	CAST IRON TRUNK REPLC - PHASE 3 - ENGINEERING	CW	S2	03	1,703	1,000	125	75	0	2,903	0	2,903	0	0	0	0	2,903	0	0	0	0	0	2,903
0 58	CAST IRON TRUNK REPLC - PHASE 3 - CONSTRUCTION	CW	S4	03	2,000	3,500	2,650	0	0	8,150	0	8,150	0	0	0	0	8,150	0	0	0	0	0	8,150
0 71	TRUNK WATERMAIN REHAB-2016 SC	CW	S3	03	-295	250	250	0	0	205	0	205	0	0	0	0	205	0	0	0	0	0	205
0 72	CAST IRON TRUNK REPLC - PHASE 3 - ENG-2016 SC	CW	S3	03	0	47	-41	-61	0	-55	0	-55	0	0	0	0	-55	0	0	0	0	0	-55
0 73	CAST IRON TRUNK REPLC - PHASE 2-2016 SC	CW	S3	03	0	5,337	247	72	69	5,725	0	5,725	0	0	0	0	5,725	0	0	0	0	0	5,725
Sub-total					17,527	12,554	3,344	116	69	33,610	0	33,610	0	0	0	0	33,610	0	0	0	0	0	33,610
<u>WAT906900 TRANSMISSION R&R</u>																							
0 1	TRANS FACILITIES REHAB	CW	S2	03	475	135	25	0	0	635	0	635	0	0	0	0	635	0	0	0	0	0	635
0 6	ELLESMERE P.S. UPGRADE	CW	S2	05	25	525	0	0	0	550	0	550	0	0	127	0	75	0	0	348	0	0	550
0 26	SCARBOROUGH PS - PUMP REPLC	CW	S2	03	534	0	0	0	0	534	0	534	0	0	0	0	534	0	0	0	0	0	534
0 27	EGLINTON PS -PUMP REPLC	CW	S2	03	299	0	0	0	0	299	0	299	0	0	0	0	299	0	0	0	0	0	299
0 36	ST CLAIR RESERVOIR REHAB/WATER QUALITY PROTECTION	CW	S2	03	15,543	5,485	353	7	0	21,388	0	21,388	0	0	0	0	21,388	0	0	0	0	0	21,388
0 48	ROSEHILL RESERVOIR	CW	S2	03	8,000	7,500	500	0	0	16,000	0	16,000	0	0	0	0	16,000	0	0	0	0	0	16,000
0 49	DOWNSVIEW PS & CONNECTOR	CW	S2	05	150	60	0	0	0	210	0	210	0	0	0	0	210	0	0	0	0	0	210
0 50	PARKDALE PS REHABILITATION	CW	S2	03	1,500	1,000	0	0	0	2,500	0	2,500	0	0	0	0	2,500	0	0	0	0	0	2,500
0 51	ROSEHILL PS REHAB	CW	S2	03	975	100	0	0	0	1,075	0	1,075	0	0	0	0	1,075	0	0	0	0	0	1,075
0 62	DOWNSVIEW PS & CONNECTOR EA-2016 SC	CW	S3	05	200	170	0	0	0	370	0	370	0	0	0	0	370	0	0	0	0	0	370
0 63	PARKDALE PS REHABILITATION-2016 SC	CW	S3	03	-187	1,680	1,757	21	0	3,271	0	3,271	0	0	0	0	3,271	0	0	0	0	0	3,271
0 64	TRANS FACILITIES REHAB-2016 SC	CW	S3	03	275	615	725	0	0	1,615	0	1,615	0	0	0	0	1,615	0	0	0	0	0	1,615
0 65	ELLESMERE P.S. UPGRADE-2016 SC	CW	S3	05	-25	-525	0	0	0	-550	0	-550	0	0	-127	0	-75	0	0	-348	0	0	-550
0 66	ROSEHILL PS REHAB-2016 SC	CW	S3	03	-640	1,686	2,786	1,144	11	4,987	11	4,998	0	0	0	0	4,998	0	0	0	0	0	4,998
0 67	ARMOUR HEIGHTS PUMP#2 REPLC	CW	S4	03	100	900	900	100	0	2,000	0	2,000	0	0	0	0	2,000	0	0	0	0	0	2,000

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAT906900 TRANSMISSION R&R</u>																								
0	68	ST CLAIR RESERVOIR REHAB/QUALITY PROTECTION-2016SC	CW	S3	03	-11,193	8,375	7,560	0	0	4,742	0	4,742	0	0	0	0	4,742	0	0	0	0	4,742	
0	69	SCARBOROUGH PS - PUMP REPLC-2016 SC	CW	S3	03	-370	0	0	0	0	-370	0	-370	0	0	0	0	-370	0	0	0	0	-370	
0	71	EGLINTON PS - PUMP REPLC-2016 SC	CW	S3	03	8	0	0	0	0	8	0	8	0	0	0	0	8	0	0	0	0	8	
0	73	ROSEHILL RESERVOIR-2016 SC	CW	S3	03	-7,351	3,800	10,000	4,600	0	11,049	0	11,049	0	0	0	0	11,049	0	0	0	0	11,049	
Sub-total						8,318	31,506	24,606	5,872	11	70,313	11	70,324	0	0	0	0	70,324	0	0	0	0	70,324	
<u>WAT906902 HARRIS W.T.P. R&R</u>																								
0	2	BUILDING ENVELOPE REHAB	CW	S2	03	13	0	0	0	0	13	0	13	0	0	0	0	13	0	0	0	0	13	
0	3	FACILITY & PROCESS UPGRADES	CW	S2	03	500	500	0	0	0	1,000	0	1,000	0	0	0	0	1,000	0	0	0	0	1,000	
0	21	HVAC REHAB - CONSTRUCTION	CW	S2	03	1,220	1,000	580	0	0	2,800	0	2,800	0	0	0	0	2,800	0	0	0	0	2,800	
0	29	HARRIS FILTERS REHABILITATION - PILOT	CW	S2	03	3,600	775	25	0	0	4,400	0	4,400	0	0	0	0	4,400	0	0	0	0	4,400	
0	56	REHAB OF SETTLING BASIN ROOF & SLUICE GATES	CW	S2	03	12,609	8,110	2,103	7	0	22,829	0	22,829	0	0	0	0	22,829	0	0	0	0	22,829	
0	79	EXTERIOR SECURITY LIGHTING UPGRADES	CW	S2	03	950	50	0	0	0	1,000	0	1,000	0	0	0	0	1,000	0	0	0	0	1,000	
0	81	LIQUID CHEMICAL SYSTEM IMPROVEMENTS	CW	S2	04	320	200	0	0	0	520	0	520	0	0	0	0	520	0	0	0	0	520	
0	82	PD2 OPTIMIZATION	CW	S2	03	90	0	0	0	0	90	0	90	0	0	0	0	90	0	0	0	0	90	
0	92	HARRIS DISINFECTION MODIFICATIONS	CW	S2	04	250	1,500	3,500	3,500	0	8,750	0	8,750	0	0	532	0	8,218	0	0	0	0	8,750	
0	93	LIQUID CHEMICAL SYSTEM RELOCATION	CW	S2	04	20	0	0	0	0	20	0	20	0	0	0	0	20	0	0	0	0	20	
0	95	HARRIS FILTERS REHABILITATION - PILOT-2016 SC	CW	S3	03	-3,250	2,665	697	0	0	112	0	112	0	0	0	0	112	0	0	0	0	112	
0	96	LIQUID CHEMICAL SYSTEM IMPROVEMENTS-2016 SC	CW	S3	04	-113	1,201	1,148	7	0	2,243	0	2,243	0	0	0	0	2,243	0	0	0	0	2,243	
0	97	PD2 OPTIMIZATION-2016 SC	CW	S3	03	-90	0	0	0	0	-90	0	-90	0	0	0	0	-90	0	0	0	0	-90	
0	98	HERITAGE MASONRY AND ARCHITECTURAL RESTORATION	CW	S4	03	200	200	200	200	200	1,000	200	1,200	0	0	0	0	1,200	0	0	0	0	1,200	
0	99	CONTROL ROOM RELOCATION	CW	S4	04	75	525	0	0	0	600	0	600	0	0	0	0	600	0	0	0	0	600	
0	100	EMERGENCY STANDBY POWER	CW	S4	04	150	850	5	0	0	1,005	0	1,005	0	0	0	0	1,005	0	0	0	0	1,005	
0	102	PHONE SYSTEM UPGRADE	CW	S4	03	70	510	0	0	0	580	0	580	0	0	0	0	580	0	0	0	0	580	
0	103	REHAB OF SETTLING BASIN ROOF&SLUICE GATES-2016 SC	CW	S3	03	-2,209	1,290	3,281	16	0	2,378	0	2,378	0	0	0	0	2,378	0	0	0	0	2,378	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAT906902 HARRIS W.T.P. R&R</u>																								
0	104	EXTERIOR SECURITY LIGHTING UPGRADES-2016 SC	CW	S3	03	-950	-50	100	550	550	200	0	200	0	0	0	0	200	0	0	0	0	0	200
0	105	HARRIS DISINFECTION MODIFICATIONS-2016 SC	CW	S3	04	-250	-1,500	-3,500	-3,500	0	-8,750	0	-8,750	0	0	-532	0	-8,218	0	0	0	0	0	-8,750
0	106	BUILDING ENVELOPE REHAB-2016 SC	CW	S3	03	113	0	0	0	0	113	0	113	0	0	0	0	113	0	0	0	0	0	113
0	107	HVAC REHAB CONSTRUCTION-2016 SC	CW	S3	03	-738	1,467	267	0	0	996	0	996	0	0	0	0	996	0	0	0	0	0	996
0	108	TRAVELLING 3 & 5 UPGRADE	CW	S4	03	750	0	0	0	0	750	0	750	0	0	0	0	750	0	0	0	0	0	750
Sub-total						13,330	19,293	8,406	780	750	42,559	200	42,759	0	0	0	0	42,759	0	0	0	0	0	42,759
<u>WAT906903 FJ HORGAN W.T.P. R&R</u>																								
0	5	FACILITY & PROCESS UPGRADES	CW	S2	03	1,199	300	0	0	0	1,499	0	1,499	0	0	0	0	1,499	0	0	0	0	0	1,499
0	8	RAW WATER PUMP UPGRADES	CW	S2	03	600	0	0	0	0	600	0	600	0	0	0	0	600	0	0	0	0	0	600
0	15	REPLACEMENT OF MCCS	CW	S2	03	2,290	2,233	1,100	320	149	6,092	0	6,092	0	0	0	0	6,092	0	0	0	0	0	6,092
0	16	ZEBRA MUSSEL CONTROL SYSTEM REPLACEMENT	CW	S2	03	500	2,500	1,950	0	0	4,950	0	4,950	0	0	0	0	4,950	0	0	0	0	0	4,950
0	31	BUILDING FIRE, HVAC, LIGHTING UPGRADES	CW	S4	04	75	855	1,375	1,825	10	4,140	10	4,150	0	0	0	0	4,150	0	0	0	0	0	4,150
0	32	ELEC GROUNDING SYSTEM & BULK CHEM UNLOADING IMPRO	CW	S2	04	700	0	0	0	0	700	0	700	0	0	0	0	700	0	0	0	0	0	700
0	34	TREATED WATER PUMP UPGRADES	CW	S2	04	1,850	550	0	0	0	2,400	0	2,400	0	0	0	0	2,400	0	0	0	0	0	2,400
0	46	OFFSHORE CHLORINATION RELOCATION-2016 SC	CW	S3	03	-500	-2,500	-1,950	0	0	-4,950	0	-4,950	0	0	0	0	-4,950	0	0	0	0	0	-4,950
0	47	FACILITY & PROCESS UPGRADES-2016 SC	CW	S3	03	0	216	0	0	0	216	0	216	0	0	0	0	216	0	0	0	0	0	216
0	48	TREATED WATER PUMP UPGRADES-2016 SC	CW	S3	04	-550	1,340	0	0	0	790	0	790	0	0	0	0	790	0	0	0	0	0	790
0	49	ELEC GROUNDING SYSTEM&BULK CHEM UNLOADING-2016SC	CW	S3	04	-365	500	3	3	0	141	0	141	0	0	0	0	141	0	0	0	0	0	141
0	51	ACCESS ROAD REPAVING-2016 SC	CW	S3	03	200	0	0	0	0	200	0	200	0	0	0	0	200	0	0	0	0	0	200
0	52	REPLACEMENT OF MCCS-2016 SC	CW	S3	03	-1,230	32	1,300	-70	3	35	19	54	0	0	0	0	54	0	0	0	0	0	54
Sub-total						4,769	6,026	3,778	2,078	162	16,813	29	16,842	0	0	0	0	16,842	0	0	0	0	0	16,842
<u>WAT906906 TRUNK WATERMAIN EXPANSION</u>																								
0	25	JOS WM SCAR PS TO ST CLAIR AND MIDLAND - ENG	CW	S2	05	650	700	400	50	50	1,850	0	1,850	0	0	886	0	545	0	0	419	0	0	1,850

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By													
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAT906906 TRUNK WATERMAIN EXPANSION</u>																									
0	67	JOS -WM Scar PS to St. Clair&Midland (ENG)-2016 SC	CW	S3	05	0	-96	50	123	-29	48	0	48	0	0	23	0	14	0	0	11	0	0	48	
Sub-total						650	604	450	173	21	1,898	0	1,898	0	0	909	0	559	0	0	430	0	0	1,898	
<u>WAT906914 SWITCH GEAR TRANSFORMER</u>																									
0	13	INDOOR/OUTDOOR SWITCHGEAR (PHASE 3)	CW	S2	03	5,400	3,703	0	0	0	9,103	0	9,103	0	0	0	0	9,103	0	0	0	0	0	9,103	
0	28	INDOOR/OUTDOOR SWITCHGEAR (PHASE 3)-2016 SC	CW	S3	03	-1,100	-578	0	0	0	-1,678	0	-1,678	0	0	0	0	-1,678	0	0	0	0	0	-1,678	
Sub-total						4,300	3,125	0	0	0	7,425	0	7,425	0	0	0	0	7,425	0	0	0	0	0	7,425	
<u>WAT906917 TRANSMISSION OPERATIONS OPTIMIZER</u>																									
0	11	TRANSMISSION OPERATIONS OPTIMIZER - 2016 SC	CW	S3	04	2	0	0	0	0	2	0	2	0	0	0	0	1	0	0	1	0	0	2	
Sub-total						2	0	0	0	0	2	0	2	0	0	0	0	1	0	0	1	0	0	2	
<u>WAT906918 WATER SUSTAINABILITY PROGRAM</u>																									
0	1	WATER SUSTAINABILITY PROGRAM	CW	S2	04	13,307	7,205	20	2	0	20,534	0	20,534	0	0	1,248	0	19,286	0	0	0	0	0	20,534	
0	12	STANDBY POWER - ROSEHILL	CW	S2	04	4,850	4,800	0	0	0	9,650	0	9,650	0	0	0	0	9,650	0	0	0	0	0	9,650	
0	17	WATER SUSTAINABILITY PROG STANDBY POWER-2016 SC	CW	S3	04	-3,007	9,207	0	0	0	6,200	0	6,200	0	0	377	0	-2,225	0	0	8,048	0	0	6,200	
0	18	STANDBY POWER - ROSEHILL-2016 SC	CW	S3	04	-4,453	-1,456	4,344	5,167	1,815	5,417	15	5,432	0	0	906	0	1	0	0	4,525	0	0	5,432	
Sub-total						10,697	19,756	4,364	5,169	1,815	41,801	15	41,816	0	0	2,531	0	26,712	0	0	12,573	0	0	41,816	
<u>WAT906919 RL CLARK W.T.P. R&R</u>																									
0	1	FACILITY & PROCESS UPGRADES	CW	S2	03	215	150	0	0	0	365	0	365	0	0	0	0	365	0	0	0	0	0	365	
0	8	PROCESS EQUIPMENT UPGRADE ENGINEERING	CW	S2	03	1,275	1,037	1,225	25	0	3,562	0	3,562	0	0	217	0	3,345	0	0	0	0	0	3,562	
0	15	PROCESS EQUIPMENT UPGRADE CONSTRUCTION	CW	S2	03	7,800	21,000	12,215	0	0	41,015	0	41,015	0	0	2,495	0	38,520	0	0	0	0	0	41,015	
0	44	EVALUATION & COMMUNICATION SYSTEMS	CW	S2	03	1,544	25	5	0	0	1,574	0	1,574	0	0	0	0	1,574	0	0	0	0	0	1,574	
0	64	PROCESS EQUIPMENT UPGRADE CONSTRUCTION-2016 SC	CW	S3	03	0	0	0	82	0	82	0	82	0	0	4	0	78	0	0	0	0	0	82	
0	65	PROCESS EQUIPMENT UPGRADE ENGINEERING-2016 SC	CW	S3	03	-395	-25	-745	1,367	60	262	0	262	0	0	17	0	245	0	0	0	0	0	262	
0	66	EVACUATION AND COMMUNICATION SYSTEMS-2016 SC	CW	S3	03	0	283	0	0	0	283	0	283	0	0	0	0	283	0	0	0	0	0	283	
0	67	FACILITY & PROCESS UPGRADES-2016 SC	CW	S3	03	-65	0	150	0	0	85	0	85	0	0	0	0	85	0	0	0	0	0	85	
Sub-total						10,374	22,470	12,850	1,474	60	47,228	0	47,228	0	0	2,733	0	44,495	0	0	0	0	0	47,228	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAT906930 DIST W/M REPLACEMENT</u>																							
0 15	WM REPLC - STANDALONE	CW	S2	03	1,177	0	0	0	0	1,177	0	1,177	0	0	0	0	1,177	0	0	0	0	0	1,177
0 39	DIST W/M REPLACEMENT 2013	CW	S2	03	500	0	0	0	0	500	0	500	0	0	0	0	500	0	0	0	0	0	500
0 51	DIST W/M REPLACEMENT - 2014	CW	S2	03	6,764	0	0	0	0	6,764	0	6,764	0	0	0	0	6,764	0	0	0	0	0	6,764
0 52	WATERMAIN UPGRADES - 2014	CW	S2	05	2,087	0	0	0	0	2,087	0	2,087	0	0	0	0	2,087	0	0	0	0	0	2,087
0 55	WATERMAIN REPLACEMENT - METROLINX	CW	S2	03	50	1,000	1,000	1,000	0	3,050	0	3,050	0	0	0	0	3,050	0	0	0	0	0	3,050
0 63	DIST W/M REPLACEMENT - 2015	CW	S2	03	28,810	11,424	0	0	0	40,234	0	40,234	0	0	6,256	0	33,978	0	0	0	0	0	40,234
0 64	WATERMAIN UPGRADES - 2015	CW	S2	05	3,292	1,204	0	0	0	4,496	0	4,496	0	0	1,399	0	3,097	0	0	0	0	0	4,496
0 71	DIST W/M REPLACEMENT - 2014-2016 SC	CW	S3	03	-5,516	401	0	0	0	-5,115	0	-5,115	0	0	0	0	-5,115	0	0	0	0	0	-5,115
0 72	DIST W/M REPLACEMENT - 2015-2016 SC	CW	S3	03	0	-5,677	235	0	0	-5,442	0	-5,442	0	0	-844	0	-4,598	0	0	0	0	0	-5,442
0 73	DIST W/M REPLACEMENT - 2016	CW	S4	03	34,067	19,562	8,427	0	0	62,056	0	62,056	0	0	9,650	0	52,406	0	0	0	0	0	62,056
0 74	WATERMAIN UPGRADES - 2016	CW	S4	05	8,461	3,470	1,840	0	0	13,771	0	13,771	0	0	4,284	0	9,487	0	0	0	0	0	13,771
0 75	WATERMAIN UPGRADES - 2014-2016 SC	CW	S3	05	-1,729	400	0	0	0	-1,329	0	-1,329	0	0	0	0	-1,329	0	0	0	0	0	-1,329
0 76	WATERMAIN UPGRADES - 2015-2016 SC	CW	S3	05	-1,835	-867	0	0	0	-2,702	0	-2,702	0	0	-841	0	-1,861	0	0	0	0	0	-2,702
0 77	2013 WM REPLC - UPGRADES-2016 SC	CW	S3	05	106	0	0	0	0	106	0	106	0	0	33	0	73	0	0	0	0	0	106
0 78	WM REPLC - STANDALONE-2016 SC	CW	S3	03	-1,177	0	0	0	0	-1,177	0	-1,177	0	0	0	0	-1,177	0	0	0	0	0	-1,177
0 79	DIST W/M REPLC - 2012-2016 SC	CW	S3	03	148	0	0	0	0	148	0	148	0	0	0	0	148	0	0	0	0	0	148
0 80	2013 WM REPLC - SOGR-2016 SC	CW	S3	03	-480	0	0	0	0	-480	0	-480	0	0	0	0	-480	0	0	0	0	0	-480
0 81	2011 WM REPLC-2016 SC	CW	S3	03	4	0	0	0	0	4	0	4	0	0	0	0	4	0	0	0	0	0	4
Sub-total					74,729	30,917	11,502	1,000	0	118,148	0	118,148	0	0	19,937	0	98,211	0	0	0	0	0	118,148
<u>WAT906932 DIST W/M REHABILITATION</u>																							
0 4	HYDRANT & VALVE REPAIR	CW	S2	03	1,824	1,000	0	0	0	2,824	0	2,824	0	0	0	0	2,824	0	0	0	0	0	2,824
0 6	WATERMAIN STRUCTURAL LINING	CW	S2	03	54,415	61,658	20,717	5,400	0	142,190	0	142,190	0	0	0	0	142,190	0	0	0	0	0	142,190
0 7	CATHODIC PROTECTION	CW	S2	03	4,595	4,450	450	0	0	9,495	0	9,495	0	0	0	0	9,495	0	0	0	0	0	9,495
0 30	CUT REPAIRS	CW	S2	03	2,765	0	0	0	0	2,765	0	2,765	0	0	0	0	2,765	0	0	0	0	0	2,765

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other 2	Debt - Recoverable Debt	Total Financing	
<u>WAT906932 DIST W/M REHABILITATION</u>																							
0 46	WATERMAIN STRUCTURAL LINING-2016 SC	CW	S3	03	-10,957	-9,340	-6,088	-5,385	2	-31,768	0	-31,768	0	0	0	0	-31,768	0	0	0	0	0	-31,768
0 47	HYDRANT & VALVE REPAIR-2016 SC	CW	S3	03	1,845	500	0	0	0	2,345	0	2,345	0	0	0	0	2,345	0	0	0	0	0	2,345
0 49	CUT REPAIR-2016 SC	CW	S3	03	0	2,933	0	0	0	2,933	0	2,933	0	0	0	0	2,933	0	0	0	0	0	2,933
Sub-total					54,487	61,201	15,079	15	2	130,784	0	130,784	0	0	0	0	130,784	0	0	0	0	0	130,784
<u>WAT906934 DIST WATER SERVICE REPAIR</u>																							
0 12	ALL DISTRICT WSR - LEAD REPLACEMENT	CW	S2	02	9,250	9,250	0	0	0	18,500	0	18,500	0	0	0	0	18,500	0	0	0	0	0	18,500
0 32	WSR CUT REPAIRS	CW	S2	03	2,100	0	0	0	0	2,100	0	2,100	0	0	0	0	2,100	0	0	0	0	0	2,100
0 41	2013 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	1,253	0	0	0	0	1,253	0	1,253	0	0	0	0	1,253	0	0	0	0	0	1,253
0 52	2014 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	1,891	0	0	0	0	1,891	0	1,891	0	0	0	0	1,891	0	0	0	0	0	1,891
0 59	2015 WATER SERVICE REPLACEMENT - SOGR	CW	S2	02	9,000	4,500	0	0	0	13,500	0	13,500	0	0	0	0	13,500	0	0	0	0	0	13,500
0 67	WATER SERVICE REPAIR - LEAD PROGRAM-2016 SC	CW	S3	02	5,754	3,203	5,000	0	0	13,957	0	13,957	0	0	0	0	13,957	0	0	0	0	0	13,957
0 68	2016 WATER SERVICE REPLACEMENT - SOGR	CW	S4	02	10,001	12,000	5,000	0	0	27,001	0	27,001	0	0	0	0	27,001	0	0	0	0	0	27,001
0 69	2014 WATER SERVICE REPLACEMENT - SOGR-2016 SC	CW	S3	02	-672	276	0	0	0	-396	0	-396	0	0	0	0	-396	0	0	0	0	0	-396
0 70	2015 WATER SERVICE REPLACEMENT - SOGR-2016 SC	CW	S3	02	-3,773	-2,223	736	2	0	-5,258	0	-5,258	0	0	0	0	-5,258	0	0	0	0	0	-5,258
0 71	WATER SERVICE REPAIR - WM REHAB PROGRAM	CW	S4	02	12,000	6,000	0	0	0	18,000	0	18,000	0	0	0	0	18,000	0	0	0	0	0	18,000
0 74	REPLACEMENT OF FROZEN SERVICES	CW	S4	02	1,000	1,000	1,000	0	0	3,000	0	3,000	0	0	0	0	3,000	0	0	0	0	0	3,000
0 75	WSR CUT REPAIRS WITH WM SL	CW	S4	02	1,750	1,750	0	0	0	3,500	0	3,500	0	0	0	0	3,500	0	0	0	0	0	3,500
0 76	WSR CUT REPAIR-2016 SC	CW	S3	03	-350	1,750	0	0	0	1,400	0	1,400	0	0	0	0	1,400	0	0	0	0	0	1,400
0 77	2013 WSR-2016 SC	CW	S3	02	-1,004	0	0	0	0	-1,004	0	-1,004	0	0	0	0	-1,004	0	0	0	0	0	-1,004
0 78	2011 WSR	CW	S4	02	15	0	0	0	0	15	0	15	0	0	0	0	15	0	0	0	0	0	15
0 79	2012 WATER SERVICE REPLC - 2016 SC	CW	S3	02	35	0	0	0	0	35	0	35	0	0	0	0	35	0	0	0	0	0	35
Sub-total					48,250	37,506	11,736	2	0	97,494	0	97,494	0	0	0	0	97,494	0	0	0	0	0	97,494
<u>WAT906935 NEW SERVICE CONNECTIONS</u>																							
0 2	NEW SERVICE CONNECTIONS - CUT REPAIRS	CW	S2	05	4,080	0	0	0	0	4,080	0	4,080	0	0	0	0	4,080	0	0	0	0	0	4,080

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
Sub- Priority	Project No. SubProj No.	Project Name Sub-project Name	Ward	Stat.	Cat.																			
<u>WAT906935 NEW SERVICE CONNECTIONS</u>																								
0	7	NEW SERVICE CONNECTIONS - SITE SERVICING	CW	S2	05	22,100	13,500	2,500	0	0	38,100	0	38,100	0	0	0	0	38,100	0	0	0	0	0	38,100
0	20	NEW SERVICE CONNECTIONS - SITE SERVICING-2016 SC	CW	S3	05	0	8,500	5,000	0	0	13,500	0	13,500	0	0	0	0	13,500	0	0	0	0	0	13,500
0	21	NEW SERVICE CONNECTIONS - CUT REPAIRS-2016 SC	CW	S3	05	920	5,000	0	0	0	5,920	0	5,920	0	0	0	0	5,920	0	0	0	0	0	5,920
Sub-total						27,100	27,000	7,500	0	0	61,600	0	61,600	0	0	0	0	61,600	0	0	0	0	0	61,600
<u>WAT906951 ENGINEERING</u>																								
0	2	CONSULTING FEES	CW	S2	03	11,389	6,909	2,998	1,251	1,054	23,601	2,013	25,614	0	0	0	0	25,614	0	0	0	0	0	25,614
0	63	ROAD RESTORATION	CW	S2	03	5,830	0	0	0	0	5,830	0	5,830	0	0	0	0	5,830	0	0	0	0	0	5,830
0	64	LEGAL SERVICES SALARIES-2016 SC	CW	S3	03	199	0	0	0	0	199	0	199	0	0	0	0	199	0	0	0	0	0	199
0	65	PPFA SALARIES-2016 SC	CW	S3	03	2,292	0	0	0	0	2,292	0	2,292	0	0	0	0	2,292	0	0	0	0	0	2,292
0	66	ECS SALARIES-2016 SC	CW	S3	03	13,081	0	0	0	0	13,081	0	13,081	0	0	0	0	13,081	0	0	0	0	0	13,081
0	67	ROAD RESTORATION-2016 SC	CW	S3	03	150	6,005	0	0	0	6,155	0	6,155	0	0	0	0	6,155	0	0	0	0	0	6,155
0	68	CONSULTING FEES-2016 SC	CW	S3	03	-4,359	4,654	8,459	6,056	5,500	20,310	300	20,610	0	0	0	0	20,610	0	0	0	0	0	20,610
Sub-total						28,582	17,568	11,457	7,307	6,554	71,468	2,313	73,781	0	0	0	0	73,781	0	0	0	0	0	73,781
<u>WAT906977 ISLAND W.T.P. R&R</u>																								
0	1	FACILITY & PROCESS UPGRADES	CW	S2	03	757	375	0	0	0	1,132	0	1,132	0	0	0	0	1,132	0	0	0	0	0	1,132
0	12	FACILITY UPGRADE - FORMER MARINE YARD	CW	S2	03	2,345	0	0	0	0	2,345	0	2,345	0	0	0	0	2,345	0	0	0	0	0	2,345
0	32	TRAVELLING SCREEN REPLACEMENT	CW	S2	03	2,120	380	10	0	0	2,510	0	2,510	0	0	0	0	2,510	0	0	0	0	0	2,510
0	44	ISLAND ENWAVE/RETROFIT PROJECT	CW	S2	04	27	0	0	0	0	27	0	27	0	0	0	0	27	0	0	0	0	0	27
0	50	AMMONIA AND FLOURIDE SYSTEM UPGRADES	CW	S2	03	880	1,320	40	0	0	2,240	0	2,240	0	0	0	0	2,240	0	0	0	0	0	2,240
0	51	CHEMICAL SYSTEMS' ELECTRICAL FEED DISTRIBUTION	CW	S2	03	365	0	0	0	0	365	0	365	0	0	0	0	365	0	0	0	0	0	365
0	69	GENERATORS' DR3 PROGRAM	CW	S2	04	750	425	0	0	0	1,175	0	1,175	0	0	0	0	1,175	0	0	0	0	0	1,175
0	70	PLANTWIDE HVAC UPGRADES	CW	S2	04	90	490	45	0	0	625	0	625	0	0	0	0	625	0	0	0	0	0	625
0	78	Generators DR3 Program-2016 SC	CW	S3	04	-670	270	650	0	0	250	0	250	0	0	0	0	250	0	0	0	0	0	250
0	79	PLANTWIDE HVAC UPGRADES-2016 SC	CW	S3	04	-5	637	1,096	0	0	1,728	0	1,728	0	0	0	0	1,728	0	0	0	0	0	1,728

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
Sub-Project No.	Project Name	Ward	Stat.	Cat.	2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAT906977 ISLAND W.T.P. R&R</u>																								
0 80	FACILITY UPGRADE - FORMER MARINE YARD-2016 SC	CW	S3	03	0	1,370	0	0	0	1,370	0	1,370	0	0	0	0	1,370	0	0	0	0	0	1,370	
0 81	TRAVELLING SCREEN REPLACEMENT-2016 SC	CW	S3	03	-1,950	800	2,420	550	10	1,830	0	1,830	0	0	0	0	1,830	0	0	0	0	0	1,830	
0 83	RAW WATER INTAKE CLEANING	CW	S4	03	100	1,000	0	0	0	1,100	0	1,100	0	0	0	0	1,100	0	0	0	0	0	1,100	
0 84	CHEMICAL SYSTEMS' ELEC FEED DISTRIBUTION-2016 SC	CW	S3	03	-360	26	0	0	0	-334	0	-334	0	0	0	0	-334	0	0	0	0	0	-334	
0 85	AMMONIA AND FLOURIDE SYSTEM UPGRADES-2016 SC	CW	S3	03	-535	1,279	3,400	12	0	4,156	0	4,156	0	0	0	0	4,156	0	0	0	0	0	4,156	
0 86	ISLAND FILTER AIR SCOUR SYSTEM-2016 SC	CW	S3	04	100	0	0	0	0	100	0	100	0	0	6	0	94	0	0	0	0	0	100	
0 87	ISLAND ENWAVE/RETROFIT PROJECT-2016 SC	CW	S3	04	-27	0	0	0	0	-27	0	-27	0	0	0	0	-27	0	0	0	0	0	-27	
0 88	FACILITY & PROCESS UPGRADES-2016 SC	CW	S3	03	1,330	550	375	0	0	2,255	0	2,255	0	0	0	0	2,255	0	0	0	0	0	2,255	
Sub-total					5,317	8,922	8,036	562	10	22,847	0	22,847	0	0	6	0	22,841	0	0	0	0	0	22,847	
<u>WAT907353 LAWRENCE ALLAN REVITALIZATION PLAN</u>																								
0 1	LAWRENCE ALLAN REVITALIZATION PLAN - INTERNAL	CW	S2	05	3,821	12,641	2,127	3,531	0	22,120	0	22,120	0	0	22,120	0	0	0	0	0	0	0	22,120	
0 2	LAWRENCE ALLAN REVITALIZATION PLAN - EXTERNAL	CW	S2	05	2,633	5,437	0	0	0	8,070	0	8,070	0	0	8,070	0	0	0	0	0	0	0	8,070	
0 7	LAWRENCE ALLAN REVITALIZATION PLAN-INTERNAL-2016SC	CW	S3	05	0	-9,968	11,145	1,975	0	3,152	0	3,152	0	0	3,152	0	0	0	0	0	0	0	3,152	
0 8	LAWRENCE ALLAN REVITALIZATION PLAN-EXTERNAL-2016SC	CW	S3	05	1,459	-1,345	0	0	0	114	0	114	0	0	114	0	0	0	0	0	0	0	114	
Sub-total					7,913	6,765	13,272	5,506	0	33,456	0	33,456	0	0	33,456	0	0	0	0	0	0	0	0	33,456
<u>WAT907558 REGENT PARK CAPITAL CONTRIBUTION</u>																								
0 1	REGENT PARK CAPITAL CONTRIBUTION	CW	S2	05	1,803	475	1,090	632	37	4,037	85	4,122	0	0	0	0	4,122	0	0	0	0	0	4,122	
0 12	REGENT PARK CAPITAL CONTRIBUTION-2016 SC	CW	S3	05	553	121	301	180	7	1,162	26	1,188	0	0	5,310	0	-4,122	0	0	0	0	0	1,188	
Sub-total					2,356	596	1,391	812	44	5,199	111	5,310	0	0	5,310	0	0	0	0	0	0	0	0	5,310
<u>WAT907946 BUSINESS IT PROJECTS</u>																								
0 2	BACKFLOW INSPECTION PORTAL	CW	S2	04	200	200	0	0	0	400	0	400	0	0	0	0	400	0	0	0	0	0	400	
0 4	EDOCS	CW	S2	04	150	0	0	0	0	150	0	150	0	0	0	0	150	0	0	0	0	0	150	
0 7	ENTERPRISE WORK MANAGEMENT SYSTEM PROJECT	CW	S2	04	1,719	1,421	1,272	1,373	500	6,285	0	6,285	0	0	0	0	6,285	0	0	0	0	0	6,285	
0 13	BACKFLOW INSPECTION PUBLIC REPORTING PORTAL-2016SC	CW	S3	04	-200	-200	0	0	0	-400	0	-400	0	0	0	0	-400	0	0	0	0	0	-400	
0 14	ENTERPRISE WORK MANAGEMENT SYSTEM PROJECT-2016 SC	CW	S3	04	-800	300	150	-100	500	50	500	550	0	0	0	0	550	0	0	0	0	0	550	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
Sub-Project No.	Project Name	Ward	Stat.	Cat.		2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAT907946 BUSINESS IT PROJECTS																								
0 15	EDOCS-2016 SC	CW	S3	04		-150	0	0	0	0	-150	0	-150	0	0	0	0	-150	0	0	0	0	0	-150
	Sub-total					919	1,721	1,422	1,273	1,000	6,335	500	6,835	0	0	0	0	6,835	0	0	0	0	0	6,835
WAT908087 TRUNK WATERMAIN																								
0 1	TRANSMISSION SYSTEM AUTOMATION	CW	S2	04		1,750	1,750	10	0	0	3,510	0	3,510	0	0	0	0	3,510	0	0	0	0	0	3,510
0 4	JOS - REVENUE METER REPLACEMENT	CW	S4	03		50	3,500	2,950	0	0	6,500	0	6,500	0	0	0	0	3,250	0	0	3,250	0	0	6,500
0 6	3RD PARTY RELOCATIONS (METROLINX)	CW	S2	04		500	500	250	250	0	1,500	0	1,500	0	0	0	0	1,500	0	0	0	0	0	1,500
0 8	TRANSMISSION SYSTEM AUTOMATION-2016 SC	CW	S3	04		654	454	0	0	0	1,108	0	1,108	0	0	0	0	1,108	0	0	0	0	0	1,108
0 9	3RD PARTY RELOCATIONS (METROLINX)-2016 SC	CW	S3	04		-200	-200	0	0	200	-200	200	0	0	0	0	0	0	0	0	0	0	0	0
	Sub-total					2,754	6,004	3,210	250	200	12,418	200	12,618	0	0	0	0	9,368	0	0	3,250	0	0	12,618
WAT908248 WT&S PLANTWIDE																								
0 1	UV DISINFECTION - CONCEPTUAL DESIGN	CW	S4	04		1,500	500	0	0	0	2,000	0	2,000	0	0	0	0	2,000	0	0	0	0	0	2,000
0 6	STANDBY POWER - PHASE 2 - ENG	CW	S4	04		200	600	600	1,200	1,400	4,000	2,400	6,400	0	0	384	0	4,096	0	0	1,920	0	0	6,400
	Sub-total					1,700	1,100	600	1,200	1,400	6,000	2,400	8,400	0	0	384	0	6,096	0	0	1,920	0	0	8,400
Total Program Expenditure						352,199	355,711	167,952	47,849	23,148	946,859	11,039	957,898	0	0	73,810	0	858,819	0	0	25,269	0	0	957,898

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Water Program						Current and Future Year Cash Flow Commitments and Estimates						Current and Future Year Cash Flow Commitments and Estimates Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
Sub- Priority	Project No. SubProj No.	Project Name Sub-project Name	Ward	Stat.	Cat.																			
Financed By:																								
		Development Charges				26,678	18,919	18,966	7,311	714	72,588	1,222	73,810	0	0	73,810	0	0	0	0	0	0	73,810	
		Reserve Funds (Ind."XR" Ref.)				320,549	323,747	145,436	38,531	21,464	849,727	9,092	858,819	0	0	858,819	0	0	0	0	0	0	858,819	
		Other2 (External)				4,972	13,045	3,550	2,007	970	24,544	725	25,269	0	0	0	0	0	25,269	0	0	0	25,269	
Total Program Financing						352,199	355,711	167,952	47,849	23,148	946,859	11,039	957,898	0	0	73,810	0	858,819	0	0	25,269	0	0	957,898

Status Code	Description
S2	S2 Prior Year (With 2016 and/or Future Year Cashflow)
S3	S3 Prior Year - Change of Scope 2016 and/or Future Year Cost(Cashflow)
S4	S4 New - Stand-Alone Project (Current Year Only)
S5	S5 New (On-going or Phased Projects)

Category Code	Description
01	Health and Safety C01
02	Legislated C02
03	State of Good Repair C03
04	Service Improvement and Enhancement C04
05	Growth Related C05
06	Reserved Category 1 C06
07	Reserved Category 2 C07

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
WAS000259 TRUNK SEWER SYSTEM																							
0	45	TRUNK SEWER REHABILITATION - 2012-2016 SC	CW	S3	03	-912	-322	357	12	18	-847	0	-847	0	0	0	0	-847	0	0	0	0	-847
0	46	TRUNK SEWER REHABILITATION-2016 SC	CW	S3	03	-15	0	0	0	0	-15	0	-15	0	0	0	0	-15	0	0	0	0	-15
0	47	TRUNK SEWER REHABILITATION - 2016	CW	S4	03	1,000	3,275	19,175	11,770	240	35,460	10	35,470	0	0	0	0	35,470	0	0	0	0	35,470
0	48	BLACK CREEK STS EA-2016 SC	CW	S3	05	250	453	0	0	0	703	0	703	0	0	0	0	703	0	0	0	0	703
Sub-total						37,957	29,827	27,490	13,681	279	109,234	10	109,244	0	0	0	0	109,244	0	0	0	0	109,244
WAS000442 BASEMENT FLOODING RELIEF																							
0	1	BASEMENT FLOODING PROTECTION SUBSIDY PROGRAM	CW	S2	04	2,000	5,500	0	0	0	7,500	0	7,500	0	0	0	0	7,500	0	0	0	0	7,500
0	8	BASEMENT FLOODING STUDIES & EAS	CW	S2	04	2,023	280	100	100	0	2,503	0	2,503	0	0	0	0	2,503	0	0	0	0	2,503
0	9	BASEMENT FLOODING RELIEF - TUNNEL PROJECT	CW	S2	04	15,000	30,000	30,000	35,000	30,000	140,000	10,000	150,000	0	0	0	0	150,000	0	0	0	0	150,000
0	12	ROAD RESTORATION FOR BSMT FLDG	CW	S2	04	800	0	0	0	0	800	0	800	0	0	0	0	800	0	0	0	0	800
0	14	BASEMENT FLOODING DESIGN - GROUP 1	CW	S2	04	525	1,397	129	0	0	2,051	0	2,051	0	0	0	0	2,051	0	0	0	0	2,051
0	18	BASEMENT FLOODING DESIGN - GROUP 2	CW	S2	04	4,730	6,299	1,000	334	14	12,377	7	12,384	0	0	0	0	12,384	0	0	0	0	12,384
0	19	BASEMENT FLOODING RELIEF - GROUP 2	CW	S2	04	31,492	66,398	45,069	2,000	0	144,959	0	144,959	0	0	0	0	144,959	0	0	0	0	144,959
0	20	BASEMENT FLOODING DESIGN - GROUP 3	CW	S2	04	3,024	2,115	678	3,279	0	9,096	0	9,096	0	0	0	0	9,096	0	0	0	0	9,096
0	29	BASEMENT FLOODING RELIEF - GROUP 1	CW	S2	04	10,267	75	0	0	0	10,342	0	10,342	0	0	0	0	10,342	0	0	0	0	10,342
0	76	BASEMENT FLOODING FLOW MONITORING	CW	S4	04	1,000	1,500	1,500	1,500	1,500	7,000	500	7,500	0	0	0	0	7,500	0	0	0	0	7,500
0	77	BASEMENT FLOODING DESIGN - GROUP 4	CW	S2	04	4,412	6,030	10,000	13,270	15,190	48,902	60,670	109,572	0	0	0	0	109,572	0	0	0	0	109,572
0	81	BASEMENT FLOODING STUDIES & EAS-CW IMPLEMENTATION	CW	S2	04	7,000	9,500	5,000	0	0	21,500	0	21,500	0	0	0	0	21,500	0	0	0	0	21,500
0	86	BASEMENT FLOODING RELIEF - TUNNEL PROJECT-2016 SC	CW	S3	04	-12,985	-25,500	-23,000	0	5,000	-56,485	80,000	23,515	0	0	0	0	23,515	0	0	0	0	23,515
0	88	BASEMENT FLOODING DESIGN - GROUP 4 ENG-2016 SC	CW	S3	04	2,471	5,764	7,820	8,290	6,740	31,085	18,539	49,624	0	0	0	0	49,624	0	0	0	0	49,624
0	92	BMST STUDIES & EA'S -IMPLEMENTATION-2016 SC	CW	S3	04	-686	-1,568	500	0	0	-1,754	0	-1,754	0	0	0	0	-1,754	0	0	0	0	-1,754
0	94	BASEMENT FLOODING PROTECTION SUBSIDY PROG-2016 SC	CW	S3	04	3,500	0	5,500	0	0	9,000	0	9,000	0	0	0	0	9,000	0	0	0	0	9,000
0	95	ROAD RESTORATION FOR BSMT FLDG PRJS-2016 SC	CW	S3	04	-335	515	0	0	0	180	0	180	0	0	0	0	180	0	0	0	0	180
0	96	BASEMENT FLOODING DESIGN - GROUP 1-2016 SC	CW	S3	04	-126	-4	1,007	0	0	877	0	877	0	0	0	0	877	0	0	0	0	877

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Wastewater Program

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments									Current and Future Year Cash Flow Commitments Financed By									
					2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
WAS000442 BASEMENT FLOODING RELIEF																							
0 97	BASEMENT FLOODING DESIGN - GROUP 2-2016 SC	CW	S3	04	0	-3,489	1,456	-334	-14	-2,381	-7	-2,388	0	0	0	0	-2,388	0	0	0	0	-2,388	
0 98	BASEMENT FLOODING RELIEF - GROUP 1-2016 SC	CW	S3	04	-7,968	2,132	55	0	0	-5,781	0	-5,781	0	0	0	0	-5,781	0	0	0	0	-5,781	
0 99	BASEMENT FLOODING RELIEF - GROUP 2-2016 SC	CW	S3	04	6,370	-19,511	-7,317	24,004	6,243	9,789	1,000	10,789	0	0	0	0	10,789	0	0	0	0	10,789	
0 100	BASEMENT FLOODING DESIGN - GROUP 3-2016 SC	CW	S3	04	0	813	1,966	-3,011	20	-212	0	-212	0	0	0	0	-212	0	0	0	0	-212	
0 101	BASEMENT FLOODING STUDIES & EAS-2016 SC	CW	S3	04	-1,320	570	656	100	200	206	0	206	0	0	0	0	206	0	0	0	0	206	
Sub-total					71,194	88,816	82,119	84,532	64,893	391,554	170,709	562,263	0	0	0	0	562,263	0	0	0	0	0	562,263
WAS000521 HIGHLAND CREEK WWTP - BUILDING SERV &																							
0 3	HCTP BLDG REHAB & IMPROVEMENTS	CW	S2	03	3,500	4,000	4,000	2,800	0	14,300	0	14,300	0	0	0	0	14,300	0	0	0	0	14,300	
0 8	HCTP Bldg Rehab and Improvements-2016 SC	CW	S3	03	0	-500	0	-1,058	0	-1,558	0	-1,558	0	0	0	0	-1,558	0	0	0	0	-1,558	
Sub-total					3,500	3,500	4,000	1,742	0	12,742	0	12,742	0	0	0	0	12,742	0	0	0	0	0	12,742
WAS000951 NEW SEWER CONSTRUCTION																							
0 16	WESTERN BEACHES STORAGE TUNNEL	CW	S4	04	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	
Sub-total					1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1
WAS906322 W&WW LABORATORIES																							
0 9	LAB EQUIPMENT	CW	S2	03	120	150	210	0	0	480	0	480	0	0	0	0	480	0	0	0	0	480	
0 30	LAB EQUIPMENT-2016 SC	CW	S3	03	172	38	-3	0	0	207	0	207	0	0	0	0	207	0	0	0	0	207	
Sub-total					292	188	207	0	0	687	0	687	0	0	0	0	687	0	0	0	0	0	687
WAS906328 SWM END OF PIPE FACILITIES																							
0 9	NORTH TORONTO CSO CONSTR	CW	S2	04	2,973	0	0	0	0	2,973	0	2,973	0	0	239	0	2,734	0	0	0	0	2,973	
0 11	Bonar Creek Construction	CW	S2	04	450	5,400	7,200	2,570	150	15,770	0	15,770	0	0	1,269	0	14,501	0	0	0	0	15,770	
0 12	EARL BALES SWM FACILITY - PHASE 2	CW	S2	04	8,582	0	0	0	0	8,582	0	8,582	0	0	692	0	7,890	0	0	0	0	8,582	
0 56	Scarborough Waterfront Construction-2016 SC	CW	S3	04	0	-1,150	-4,000	-9,600	-11,600	-26,350	26,350	0	0	0	0	0	0	0	0	0	0	0	
0 57	Scarborough Waterfront Construction	CW	S2	04	0	1,150	4,000	9,600	11,600	26,350	21,600	47,950	0	0	3,860	0	44,090	0	0	0	0	47,950	
0 58	EARL BALES PARK SWM FACILITY - PHASE 2-2016 SC	CW	S3	04	0	1,250	0	0	0	1,250	0	1,250	0	0	102	0	1,148	0	0	0	0	1,250	
0 59	Bonar Creek SWMF Construction-2016 SC	CW	S3	04	0	-2,650	200	3,000	0	550	0	550	0	0	43	0	507	0	0	0	0	550	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Wastewater Program

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By										
					2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing
WAS906968 ENGINEERING																						
0 63	ROAD RESTORATION-2016 SC	CW	S3	03	20	1,838	0	0	0	1,858	0	1,858	0	0	0	0	1,858	0	0	0	0	1,858
Sub-total					20,107	10,344	9,453	6,307	5,554	51,765	1,313	53,078	0	0	0	0	53,078	0	0	0	0	53,078
WAS906973 SEWER REPLACEMENT PROGRAM																						
0 24	SEWAGE FORCEMAIN REPLACEMENT	CW	S2	03	1,505	5	0	0	0	1,510	0	1,510	0	0	0	0	1,510	0	0	0	0	1,510
0 25	SEWER REPLACEMENT 2012	CW	S2	03	1,279	0	0	0	0	1,279	0	1,279	0	0	0	0	1,279	0	0	0	0	1,279
0 35	SEWER REPLACEMENT - 2013 PROGRAM	CW	S2	03	517	0	0	0	0	517	0	517	0	0	42	0	475	0	0	0	0	517
0 36	SEWER REPLC - 2014 PROGRAM	CW	S2	03	2,104	0	0	0	0	2,104	0	2,104	0	0	0	0	2,104	0	0	0	0	2,104
0 44	COXWELL EMERGENCY TRUNK REPAIR	CW	S2	03	54	0	0	0	0	54	0	54	0	0	0	0	54	0	0	0	0	54
0 52	SEWER REPLACEMENT - METROLINX	CW	S2	03	57	1,900	1,900	1,786	0	5,643	0	5,643	0	0	0	0	5,643	0	0	0	0	5,643
0 62	SEWER REPLC - 2015 PROGRAM	CW	S2	03	7,331	5,491	0	0	0	12,822	0	12,822	0	0	1,032	0	11,790	0	0	0	0	12,822
0 70	FORCEMAIN REPLACEMENT-2016 SC	CW	S3	03	-1,500	0	0	0	0	-1,500	0	-1,500	0	0	0	0	-1,500	0	0	0	0	-1,500
0 71	SEWER REPLC - 2016 PROGRAM	CW	S4	03	7,447	9,083	4,610	0	0	21,140	0	21,140	0	0	1,702	0	19,438	0	0	0	0	21,140
0 72	COXWELL EMERGENCY TRUNK REPAIR-2016 SC	CW	S3	03	149	0	0	0	0	149	0	149	0	0	0	0	149	0	0	0	0	149
0 73	SEWER REPLC - 2014 PROGRAM-2016 SC	CW	S3	03	-1,898	607	0	0	0	-1,291	0	-1,291	0	0	0	0	-1,291	0	0	0	0	-1,291
0 74	SEWER REPLC - 2015 PROGRAM-2016 SC	CW	S3	03	2,554	-3,981	182	0	0	-1,245	0	-1,245	0	0	-99	0	-1,146	0	0	0	0	-1,245
0 75	FORCEMAIN REPLACEMENT - 2016	CW	S4	03	2,100	3,100	10,000	9,900	50	25,150	50	25,200	0	0	0	0	25,200	0	0	0	0	25,200
0 76	2012 SEWER REPLC-2016 SC	CW	S3	03	-1,278	415	0	0	0	-863	0	-863	0	0	0	0	-863	0	0	0	0	-863
0 77	2013 SEWER REPLC-2016 SC	CW	S3	03	-504	0	0	0	0	-504	0	-504	0	0	-41	0	-463	0	0	0	0	-504
Sub-total					19,917	16,620	16,692	11,686	50	64,965	50	65,015	0	0	2,636	0	62,379	0	0	0	0	65,015
WAS906980 ASHBRIDGES BAY T.P. YR2006																						
0 9	DEWATERING EQUIPMENT UPGRADES	CW	S2	03	510	1,049	0	0	0	1,559	0	1,559	0	0	125	0	1,434	0	0	0	0	1,559
0 40	DEWATERING EQUIPMENT UPGRADES-2016 SC	CW	S3	03	-213	199	0	0	0	-14	0	-14	0	0	-1	0	-13	0	0	0	0	-14
Sub-total					297	1,248	0	0	0	1,545	0	1,545	0	0	124	0	1,421	0	0	0	0	1,545
WAS906981 HIGHLAND CREEK WWTP UPGRADES																						
0 1	PROCESS & FACILITY UPGRADE	CW	S2	04	2,110	950	675	727	883	5,345	85	5,430	0	0	0	0	5,430	0	0	0	0	5,430

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By											
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing	
<u>WAS906981 HIGHLAND CREEK WWTP UPGRADES</u>																								
0	3	BIOSOLIDS TREATMENT UPGRADES	CW	S2	03	18,390	6,095	120	120	70	24,795	0	24,795	0	0	2,006	0	22,789	0	0	0	0	0	24,795
0	5	TRANSFORMERS AND SWITCHGEAR	CW	S2	05	500	500	500	2,000	8,000	11,500	6,000	17,500	0	0	1,408	0	16,092	0	0	0	0	0	17,500
0	7	MECH & ELECTRICAL UPGRADE ENGINEERING	CW	S2	03	1,578	45	0	0	0	1,623	0	1,623	0	0	0	0	1,623	0	0	0	0	0	1,623
0	8	DIGESTER GAS SYSTEM UPGRADES	CW	S2	03	4,661	4,600	10	0	0	9,271	0	9,271	0	0	0	0	9,271	0	0	0	0	0	9,271
0	16	MECH SYSTEM UPGRADES - CONSTR	CW	S2	03	762	0	0	0	0	762	0	762	0	0	0	0	762	0	0	0	0	0	762
0	23	ELECTRICAL UPGRADES - ECAR	CW	S2	03	3,599	590	2,720	4,800	0	11,709	0	11,709	0	0	0	0	11,709	0	0	0	0	0	11,709
0	31	ELEC SYSTEM UPGRADES - CONSTR	CW	S2	03	1,383	0	0	0	0	1,383	0	1,383	0	0	0	0	1,383	0	0	0	0	0	1,383
0	32	CEPA COMPLIANCE - CL NOTICE - HCTP	CW	S2	02	450	2,000	0	0	0	2,450	0	2,450	0	0	0	0	2,450	0	0	0	0	0	2,450
0	80	DIGESTER CLEANING, REHAB AND IMPROVEMENTS #4-7	CW	S2	03	1,500	1,300	0	0	0	2,800	0	2,800	0	0	0	0	2,800	0	0	0	0	0	2,800
0	83	PLANT FIRM CAPACITY - CONCEPT DESIGN	CW	S2	03	25	0	0	0	0	25	0	25	0	0	0	0	25	0	0	0	0	0	25
0	90	PROCESS IMPROVEMENTS (ROADMAP FOR RCM)	CW	S2	03	150	50	0	0	0	200	0	200	0	0	0	0	200	0	0	0	0	0	200
0	91	PROCESS, EQUIPMENT, FACILITY UPGRADES	CW	S2	03	735	125	0	0	0	860	0	860	0	0	0	0	860	0	0	0	0	0	860
0	92	LIQUID TRAIN REPAIRS - PHASE 1	CW	S2	03	2,650	4,150	3,600	1,400	0	11,800	0	11,800	0	0	0	0	11,800	0	0	0	0	0	11,800
0	101	AERATION SYSTEM AND ASSOCIATED BUILDING UPGRADES	CW	S4	04	100	10,000	12,000	12,000	10,900	45,000	10,000	55,000	0	0	0	0	55,000	0	0	0	0	0	55,000
0	102	LIQUID TRAIN - ENGINEERING	CW	S2	03	4,100	5,500	6,500	8,600	3,700	28,400	11,780	40,180	0	0	0	0	40,180	0	0	0	0	0	40,180
0	106	PROCESS & FACILITY UPGRADE-2016 SC	CW	S3	04	-462	962	45	-112	-35	398	590	988	0	0	0	0	988	0	0	0	0	0	988
0	107	MECH & ELECTRICAL UPGRADE ENGINEERING-2016 SC	CW	S3	03	-1,386	567	0	0	0	-819	0	-819	0	0	0	0	-819	0	0	0	0	0	-819
0	110	MECH SYSTEM UPGRADES - CONSTR-2016 SC	CW	S3	03	-762	0	0	0	0	-762	0	-762	0	0	0	0	-762	0	0	0	0	0	-762
0	111	ELEC SYSTEM UPGRADES - CONSTR-2016 SC	CW	S3	03	-1,375	390	0	0	0	-985	0	-985	0	0	0	0	-985	0	0	0	0	0	-985
0	112	DIGESTER CLEANING, REHAB&IMPROVEMENTS #4-7-2016 SC	CW	S3	03	-1,363	-1,050	124	81	85	-2,123	0	-2,123	0	0	0	0	-2,123	0	0	0	0	0	-2,123
0	113	PROCESS IMPROVEMENTS (ROADMAP FOR RCM)-2016 SC	CW	S3	03	-100	150	0	0	0	50	0	50	0	0	0	0	50	0	0	0	0	0	50
0	114	PROCESS, EQUIPMENT, FACILITY UPGRADES-2016 SC	CW	S3	03	-560	1,115	0	0	0	555	0	555	0	0	0	0	555	0	0	0	0	0	555
0	115	PLANT FIRM CAPACITY - CONCEPT DESIGN-2016 SC	CW	S3	03	-25	0	0	0	0	-25	0	-25	0	0	0	0	-25	0	0	0	0	0	-25
0	116	CEPA COMPLIANCE - CL NOTICE - HCTP-2016 SC	CW	S3	02	-425	-1,025	1,500	0	0	50	0	50	0	0	0	0	50	0	0	0	0	0	50

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAS906981 HIGHLAND CREEK WWTP UPGRADES</u>																									
0	117	LIQUID TRAIN REPAIRS - PHASE 1-2016 SC	CW	S3	03	-610	-110	1,056	0	0	336	0	336	0	0	0	0	336	0	0	0	0	0	336	
0	118	BIOSOLIDS TREATMENT UPGRADES -2016 SC	CW	S3	03	-7,938	5,865	0	0	0	-2,073	0	-2,073	0	0	-166	0	-1,907	0	0	0	0	0	-2,073	
0	119	DIGESTER GAS SYSTEM UPGRADES-2016 SC	CW	S3	03	0	-48	2,515	1,300	0	3,767	0	3,767	0	0	0	0	3,767	0	0	0	0	0	3,767	
0	120	TRANSFORMERS AND SWITCHGEAR-2016 SC	CW	S3	05	0	0	0	-2,000	-8,000	-10,000	-6,000	-16,000	0	0	-1,288	0	-14,712	0	0	0	0	0	-16,000	
0	121	ELECTRICAL UPGRADES - ECAR-2016 SC	CW	S3	03	-2,358	527	-2,070	2,430	1,210	-261	0	-261	0	0	0	0	-261	0	0	0	0	0	-261	
0	122	LIQUID TRAIN - ENGINEERING-2016 SC	CW	S3	03	2	500	0	0	0	502	10,000	10,502	0	0	0	0	10,502	0	0	0	0	0	10,502	
0	123	COMMUNICATION SYSTEM	CW	S4	04	200	300	650	1,900	400	3,450	50	3,500	0	0	0	0	3,500	0	0	0	0	0	3,500	
Sub-total						25,531	44,048	29,945	33,246	17,213	149,983	32,505	182,488	0	0	1,960	0	180,528	0	0	0	0	0	182,488	
<u>WAS906982 HUMBER WWTP UPGRADES</u>																									
0	2	CHLORINE FACILITY UPGRADE	CW	S2	01	1,732	34	0	0	0	1,766	0	1,766	0	0	0	0	1,766	0	0	0	0	0	1,766	
0	5	FLOOD PROTECTION	CW	S3	02	300	0	0	0	0	300	0	300	0	0	0	0	300	0	0	0	0	0	300	
0	6	NEW SUBSTATION	CW	S2	03	793	3	0	0	0	796	0	796	0	0	0	0	796	0	0	0	0	0	796	
0	7	ELECTRICAL CONDITION ASSESSMENT RECOMMENDATIONS	CW	S2	01	1,168	4,943	2,900	1,000	0	10,011	0	10,011	0	0	0	0	10,011	0	0	0	0	0	10,011	
0	8	NEW GROUNDSKEEPING BUILDING	CW	S2	01	227	0	0	0	0	227	0	227	0	0	0	0	227	0	0	0	0	0	227	
0	29	ADMIN BUILDING EXPANSION	CW	S2	04	250	300	100	260	260	1,170	50	1,220	0	0	0	0	1,220	0	0	0	0	0	1,220	
0	52	HVAC UPGRADES	CW	S2	03	4,684	3,357	18	3	0	8,062	0	8,062	0	0	0	0	8,062	0	0	0	0	0	8,062	
0	75	HYDRAULIC ASSESSMENT	CW	S2	03	200	0	0	0	0	200	0	200	0	0	0	0	200	0	0	0	0	0	200	
0	81	BLOWER REPLACEMENT	CW	S4	03	250	250	0	100	200	800	18,100	18,900	0	0	0	0	18,900	0	0	0	0	0	18,900	
0	86	BUILDING UPGRADES ENGINEERING	CW	S2	03	60	10	0	0	0	70	0	70	0	0	0	0	70	0	0	0	0	0	70	
0	90	ELEC CONDITION ASSESSMENT RECOMMENDATIONS-2016 SC	CW	S3	01	-318	-2,574	-700	100	23	-3,469	23	-3,446	0	0	0	0	-3,446	0	0	0	0	0	-3,446	
0	91	ADMIN BUILDING EXPANSION - ENGINEERING-2016 SC	CW	S3	04	50	100	310	-100	-235	125	-25	100	0	0	0	0	100	0	0	0	0	0	100	
0	92	BUILDING UPGRADES ENGINEERING-2016 SC	CW	S3	03	-51	-10	0	0	0	-61	0	-61	0	0	0	0	-61	0	0	0	0	0	-61	
0	93	NEW GROUNDSKEEPING BUILDING-2016 SC	CW	S3	01	-227	0	0	0	0	-227	0	-227	0	0	0	0	-227	0	0	0	0	0	-227	
0	94	CHLORINE FACILITY UPGRADE-2016 SC	CW	S3	01	-793	356	0	0	0	-437	0	-437	0	0	0	0	-437	0	0	0	0	0	-437	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAS907097 ASHBRIDGES BAY WWTP - BUILDING SERVIC</u>																									
0	60	BLOWER BLDG & OLD NORTH SUBSTATION IMPRO-2016 SC	CW	S3	04	-1,110	-1,550	855	2,445	30	670	30	700	0	0	0	0	700	0	0	0	0	0	700	
Sub-total						900	1,400	3,250	4,455	80	10,085	80	10,165	0	0	0	0	10,165	0	0	0	0	0	10,165	
<u>WAS907098 ASHBRIDGES BAY WWTP - EFFLUENT SYSTE</u>																									
0	1	DISINFECTION ENGINEERING	CW	S2	02	3,710	5,339	2,000	950	167	12,166	123	12,289	0	0	989	0	11,300	0	0	0	0	0	12,289	
0	13	ABTP OUTFALL ASSESSMENT	CW	S2	02	1,020	0	0	0	0	1,020	0	1,020	0	0	82	0	938	0	0	0	0	0	1,020	
0	14	OUTFALL ENGINEERING	CW	S2	02	7,000	7,000	1,400	5,000	4,000	24,400	8,800	33,200	0	0	2,671	0	30,529	0	0	0	0	0	33,200	
0	23	OUTFALL ENGINEERING-2016 SC	CW	S3	02	-1,000	0	3,100	0	1,000	3,100	3,129	6,229	0	0	501	0	5,728	0	0	0	0	0	6,229	
0	25	OUTFALL ASSESSMENT-2016 SC	CW	S3	02	-1,010	940	0	0	0	-70	0	-70	0	0	13	0	-83	0	0	0	0	0	-70	
0	27	DISINFECTION ENGINEERING-2016 SC	CW	S3	02	-2,210	-1,839	4,200	10	0	161	0	161	0	0	13	0	148	0	0	0	0	0	161	
Sub-total						7,510	11,440	10,700	5,960	5,167	40,777	12,052	52,829	0	0	4,269	0	48,560	0	0	0	0	0	52,829	
<u>WAS907099 ASHBRIDGES BAY WWTP - LIQUID TREATME</u>																									
0	1	FINE BUBBLE AERATION - TANK #2	CW	S2	03	2,370	0	0	0	0	2,370	0	2,370	0	0	192	0	2,178	0	0	0	0	0	2,370	
0	3	PRIMARY TREATMENT UPGRADE CONT #1	CW	S2	03	27,000	25,000	15,131	0	0	67,131	0	67,131	0	0	5,403	0	61,728	0	0	0	0	0	0	67,131
0	6	M & T PUMPING STATION CRITICAL REPAIRS	CW	S2	03	5,670	0	0	0	0	5,670	0	5,670	0	0	0	0	5,670	0	0	0	0	0	5,670	
0	7	PRIMARY AND FINAL TANK UPGRADES	CW	S2	03	595	0	0	0	0	595	0	595	0	0	48	0	547	0	0	0	0	0	595	
0	10	INTEGRATED PUMPING STATION (IPS) - ENGINEERING	CW	S2	03	10,117	8,437	10,000	6,000	6,000	40,554	14,000	54,554	0	0	0	0	54,554	0	0	0	0	0	54,554	
0	12	WORK AREA 1 REHAB	CW	S2	03	2	0	0	0	0	2	0	2	0	0	0	0	2	0	0	0	0	0	2	
0	39	INTEGRATED PUMPING STATION (IPS) - CONSTRUCTION	CW	S2	03	1,000	25,000	45,000	45,000	50,000	166,000	159,000	325,000	0	0	0	0	325,000	0	0	0	0	0	325,000	
0	64	INTEGRATED PUMPING STATION (IPS) - CONS-2016 SC	CW	S3	03	-1,000	-25,000	-35,000	0	-5,000	-66,000	66,000	0	0	0	0	0	0	0	0	0	0	0	0	
0	65	INTEGRATED PUMPING STATION (IPS) - ENG-2016 SC	CW	S3	03	-4,712	-2,476	-2,000	2,000	2,000	-5,188	5,750	562	0	0	0	0	562	0	0	0	0	0	562	
0	66	M & T PUMPING STATION CRITICAL REPAIRS-2016 SC	CW	S3	03	-2,521	2,250	0	0	0	-271	0	-271	0	0	0	0	-271	0	0	0	0	0	-271	
0	67	Primary and Final Tank Upgrades-2016 SC	CW	S3	03	106	0	0	0	0	106	0	106	0	0	9	0	97	0	0	0	0	0	106	
0	68	FINE BUBBLE AERATION - TANK #2-2016 SC	CW	S3	03	-259	500	0	0	0	241	0	241	0	0	20	0	221	0	0	0	0	0	241	
0	69	P BLDG HEADWORKS UPGRADE-2016 SC	CW	S3	03	8,605	10	-8,303	0	0	312	0	312	0	0	26	0	286	0	0	0	0	0	312	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Wastewater Program

Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.						Current and Future Year Cash Flow Commitments							Current and Future Year Cash Flow Commitments Financed By												
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing		
<u>WAS907099 ASHBRIDGES BAY WWTP - LIQUID TREATMENT</u>																									
0	70	WORK AREA 1 REHAB-2016 SC	CW	S3	03	4	3	0	0	0	7	0	7	0	0	0	0	7	0	0	0	0	0	7	
Sub-total						46,977	33,724	24,828	53,000	53,000	211,529	244,750	456,279	0	0	5,698	0	450,581	0	0	0	0	0	456,279	
<u>WAS907100 ASHBRIDGES BAY WWTP - SOLIDS & GAS HA</u>																									
0	3	WASTE ACTIVATED SLUDGE UPGRADE - ENGINEERING	CW	S2	03	2,863	4,596	2,000	2,000	2,000	13,459	2,100	15,559	0	0	1,252	0	14,307	0	0	0	0	0	15,559	
0	4	DIGESTERS 9-12 REFURBISHMENT	CW	S2	03	600	11,950	10,700	4,710	4,710	32,670	1,050	33,720	0	0	2,713	0	31,007	0	0	0	0	0	33,720	
0	8	BIOSOLIDS PELLETERIZER RETROFIT	CW	S2	03	400	0	0	0	0	400	0	400	0	0	0	0	400	0	0	0	0	0	400	
0	25	PELLETIZER TRUCK LOADING FACILITY UPGRADES	CW	S2	03	725	500	500	0	0	1,725	0	1,725	0	0	0	0	1,725	0	0	0	0	0	1,725	
0	40	PELLETIZER TRUCK LOADING FACILITY UPGRADES-2016 SC	CW	S3	03	-625	467	0	1,000	0	842	0	842	0	0	0	0	842	0	0	0	0	0	842	
0	41	BIOSOLIDS PELLETERIZER RETROFIT-2016 SC	CW	S3	03	0	400	0	0	0	400	0	400	0	0	0	0	400	0	0	0	0	0	400	
0	43	WASTE ACTIVATED SLUDGE UPGRADE - ENG-2016 SC	CW	S3	03	37	-1,096	1,092	0	0	33	-498	-465	0	0	-38	0	-427	0	0	0	0	0	-465	
0	44	DIGESTERS 9-12 REFURBISH-2016 SC	CW	S3	03	2,400	-2,300	1,176	7,000	-4,000	4,276	-100	4,176	0	0	335	0	3,841	0	0	0	0	0	4,176	
Sub-total						6,400	14,517	15,468	14,710	2,710	53,805	2,552	56,357	0	0	4,262	0	52,095	0	0	0	0	0	56,357	
<u>WAS907101 ASHBRIDGES BAY WWTP - O&M UPGRADES</u>																									
0	5	BOILER #4 DESIGN	CW	S2	03	57	0	0	0	0	57	0	57	0	0	0	0	57	0	0	0	0	0	57	
0	6	MESI UPGRADES	CW	S2	03	3,100	2,500	0	0	0	5,600	0	5,600	0	0	0	0	5,600	0	0	0	0	0	5,600	
0	7	MISC MECH REHAB	CW	S2	03	8,401	3,000	0	0	0	11,401	0	11,401	0	0	0	0	11,401	0	0	0	0	0	11,401	
0	29	MISC MECH REHAB-2016 SC	CW	S3	03	-1,901	3,500	1,900	0	0	3,499	0	3,499	0	0	0	0	3,499	0	0	0	0	0	3,499	
0	30	MESI UPGRADES-2016 SC	CW	S3	03	-202	485	3,074	3,167	0	6,524	0	6,524	0	0	0	0	6,524	0	0	0	0	0	6,524	
0	31	BOILER #4 DESIGN-2016 SC	CW	S3	03	-37	47	6	0	0	16	0	16	0	0	0	0	16	0	0	0	0	0	16	
Sub-total						9,418	9,532	4,980	3,167	0	27,097	0	27,097	0	0	0	0	27,097	0	0	0	0	0	27,097	
<u>WAS907102 ASHBRIDGES BAY WWTP - ODOUR CONTROL</u>																									
0	6	BIOFILTERS UPGRADE	CW	S2	03	11,542	8,400	122	0	0	20,064	0	20,064	0	0	1,615	0	18,449	0	0	0	0	0	20,064	
0	13	D BUILDING TREATMENT & BIOFILTER	CW	S2	03	1,145	0	0	0	0	1,145	0	1,145	0	0	92	0	1,053	0	0	0	0	0	1,145	
0	36	BIOFILTERS UPGRADE & REPLACEMENT-2016 SC	CW	S3	03	-2,478	-1,060	0	0	0	-3,538	0	-3,538	0	0	-285	0	-3,253	0	0	0	0	0	-3,538	

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Wastewater Program

Sub-Project No.	Project Name	Ward	Stat.	Cat.	Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By											
					2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable	Total Financing
WAS907102 ASHBRIDGES BAY WWTP - ODOUR CONTROL																						
0 37	D BUILDING TREATMENT & BIOFILTER-2016 SC	CW	S3	03	-1,045	894	0	0	0	-151	0	-151	0	0	-12	0	-139	0	0	0	0	-151
	Sub-total				9,164	8,234	122	0	0	17,520	0	17,520	0	0	1,410	0	16,110	0	0	0	0	17,520
WAS907104 HUMBER WWTP - LIQUID TREATMENT & HANI																						
0 2	SECONDARY TREATMENT UPGRADES	CW	S2	03	6,134	4,025	3,600	3,582	2,000	19,341	1,875	21,216	0	0	1,708	0	19,508	0	0	0	0	21,216
0 19	SECONDARY TREATMENT UPGRADES - SOUTH - CONS	CW	S2	03	20,000	45,000	45,000	45,000	45,000	200,000	39,800	239,800	0	0	19,306	0	220,494	0	0	0	0	239,800
0 22	SECONDARY TREATMENT UPGRADES SOUTH CONS-2016 SC	CW	S3	03	-15,000	0	0	0	0	-15,000	5,200	-9,800	0	0	-788	0	-9,012	0	0	0	0	-9,800
0 23	SECONDARY TREATMENT UPGRADES - SOUTH - ENG-2016 SC	CW	S3	03	-1,551	-742	-250	-250	1,250	-1,543	862	-681	0	0	-54	0	-627	0	0	0	0	-681
	Sub-total				9,583	48,283	48,350	48,332	48,250	202,798	47,737	250,535	0	0	20,172	0	230,363	0	0	0	0	250,535
WAS907105 HUMBER WWTP - O&M UPGRADES																						
0 1	GAS COMPRESSOR SYSTEM UPGRADES	CW	S2	03	7,184	4,850	0	0	0	12,034	0	12,034	0	0	0	0	12,034	0	0	0	0	12,034
0 29	GAS COMPRESSOR SYSTEM UPGRADES-2016 SC	CW	S3	03	779	-1,846	0	0	0	-1,067	0	-1,067	0	0	0	0	-1,067	0	0	0	0	-1,067
0 30	LIQUID STREAM UPGRADES-2016 SC	CW	S3	03	50	316	0	0	0	366	0	366	0	0	29	0	337	0	0	0	0	366
	Sub-total				8,013	3,320	0	0	0	11,333	0	11,333	0	0	29	0	11,304	0	0	0	0	11,333
WAS907106 HUMBER WWTP - ODOUR CONTROL																						
0 1	ODOUR CONTROL IMPLEMENTATION - PHASE 1	CW	S2	02	13,508	3,385	0	0	0	16,893	0	16,893	0	0	1,359	0	15,534	0	0	0	0	16,893
0 12	ODOUR CONTROL IMPLEMENTATION - PHASE 1 - 2016 SC	CW	S3	02	-1,758	0	0	0	0	-1,758	0	-1,758	0	0	-141	0	-1,617	0	0	0	0	-1,758
	Sub-total				11,750	3,385	0	0	0	15,135	0	15,135	0	0	1,218	0	13,917	0	0	0	0	15,135
WAS907224 SEWAGE PUMPING STATION UPGRADES																						
0 1	SPS UPGRADES	CW	S2	02	3,729	0	0	0	0	3,729	0	3,729	0	0	300	0	3,429	0	0	0	0	3,729
0 2	SCOTT STREET PS UPGRADES	CW	S2	05	64	0	0	0	0	64	0	64	0	0	5	0	59	0	0	0	0	64
0 4	SUNNYSIDE AND MARYPORT SPS UPGRADES	CW	S2	03	1,479	3	0	0	0	1,482	0	1,482	0	0	0	0	1,482	0	0	0	0	1,482
0 18	SPS UPGRADES - GROUP 6 & 7	CW	S4	02	190	540	3,250	6,300	5,300	15,580	7,400	22,980	0	0	1,850	0	21,130	0	0	0	0	22,980
0 25	SUNNYSIDE SPS REHAB-2016 SC	CW	S3	03	0	-3	0	0	0	-3	0	-3	0	0	0	0	-3	0	0	0	0	-3
0 27	SCOTT ST PS -2016 SC	CW	S3	05	-62	0	0	0	0	-62	0	-62	0	0	-5	0	-57	0	0	0	0	-62

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Wastewater Program						Current and Future Year Cash Flow Commitments						Current and Future Year Cash Flow Commitments Financed By									
						2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserve Reserves	Reserve Funds	Capital from Current	Other 1	Other2
Sub- Priority	Project No. SubProj No.	Project Name Sub-project Name	Ward	Stat.	Cat.																
WASWP050 EQUIPMENT REPLACEMENT & REHABILITATI																					
0	131	MTI CHAMBER UPGRADES AND PCS-2016 SC	CW	S3	04	118	-2,000	-2,000	0	0	-3,882	0	-3,882	0	0	0	0	0	-3,882		
Sub-total						918	5,704	4,558	3,652	0	14,832	0	14,832	0	0	0	0	0	0	14,832	
Total Program Expenditure						496,882	517,393	431,478	398,157	258,704	2,102,614	709,844	2,812,458	0	107,714	0	0	0	0	0	2,812,458

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2016 Recommended Cash Flow and Future Year Commitments

Wastewater Program

		Current and Future Year Cash Flow Commitments and Estimates									Current and Future Year Cash Flow Commitments and Estimates Financed By												
		2016	2017	2018	2019	2020	Total 2016-2020	Total 2021-2025	Total 2016-2025	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserve Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverable Debt	Total Financing				
Sub- Priority	Project No. SubProj No.	Project Name Sub-project Name	Ward	Stat.	Cat.																		
Financed By:																							
		Development Charges				18,456	21,003	15,938	14,328	6,000	75,725	31,989	107,714	0	0	107,714	0	0	0	0	0	0	107,714
		Reserve Funds (Ind."XR" Ref.)				478,426	496,390	415,540	383,829	252,704	2,026,889	677,855	2,704,744	0	0	0	0	0	0	0	0	0	2,704,744
Total Program Financing						496,882	517,393	431,478	398,157	258,704	2,102,614	709,844	2,812,458	0	0	107,714	0	0	0	0	0	0	2,812,458

- Status Code Description**
 S2 S2 Prior Year (With 2016 and/or Future Year Cashflow)
 S3 S3 Prior Year - Change of Scope 2016 and/or Future Year Cost\Cashflow
 S4 S4 New - Stand-Alone Project (Current Year Only)
 S5 S5 New (On-going or Phased Projects)

- Category Code Description**
 01 Health and Safety C01
 02 Legislated C02
 03 State of Good Repair C03
 04 Service Improvement and Enhancement C04
 05 Growth Related C05
 06 Reserved Category 1 C06
 07 Reserved Category 2 C07

Appendix 5

2016 Recommended Capital Budget with Financing Detail

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail
Water Program
Sub-Project Summary

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2016	Financing									
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	<u>WAT000004 HORGAN W.T.P. EXPANSION</u>													
0	5 PLANT EXPANSION - CONSTRUCTION	01/01/2008	12/31/2016	472	0	0	151	0	170	0	0	151	0	0
0	18 SUPERNATANT AND FORCEMAIN INSTALLATION	01/01/2012	12/31/2016	4,500	0	0	1,438	0	3,062	0	0	0	0	0
0	35 PLANT EXPANSION - CONSTRUCTION-2016 SC	01/01/2016	12/31/2016	-413	0	0	-131	0	-150	0	0	-132	0	0
0	36 SUPERNATANT & FORCEMAIN-2016 SC	01/01/2016	12/31/2016	-4,500	0	0	-1,438	0	-3,062	0	0	0	0	0
0	37 PLANT EXPANSION - DESIGN & CONSTR ADMIN - 2016 SC	01/01/2016	12/31/2016	50	0	0	16	0	18	0	0	16	0	0
	Project Sub-total:			109	0	0	36	0	38	0	0	35	0	0
0	<u>WAT000014 WATER STORAGE EXPANSION</u>													
0	50 MILLIKEN PS & RESERVOIR-DESIGN&CONT ADMIN-2016 S	01/01/2016	12/31/2016	130	0	0	52	0	31	0	0	47	0	0
0	51 DUFFERIN RES.EXT-DESIGN AND CONT. ADMIN - 2016 SC	01/01/2016	12/31/2017	5	0	0	3	0	2	0	0	0	0	0
	Project Sub-total:			135	0	0	55	0	33	0	0	47	0	0
0	<u>WAT000018 CLARK RESIDUE MGMT. FACILITIES</u>													
0	24 RESIDUALS RETROFITS & UPGRADES	01/01/2013	12/31/2016	950	0	0	0	0	950	0	0	0	0	0
0	28 RESIDUALS RETROFITS AND UPGRADES-2016 SC	01/01/2016	12/31/2018	-750	0	0	0	0	-750	0	0	0	0	0
	Project Sub-total:			200	0	0	0	0	200	0	0	0	0	0
0	<u>WAT000021 WATER EFFICIENCY PROGRAM</u>													
0	10 ICI INDOOR WATER AUDIT	01/01/2005	12/31/2017	300	0	0	300	0	0	0	0	0	0	0
0	11 PUBLIC EDUCATION & PROMOTIONS	01/01/2005	12/31/2017	150	0	0	150	0	0	0	0	0	0	0
0	12 ANCILLARY COSTS	01/01/2005	12/31/2017	70	0	0	70	0	0	0	0	0	0	0
	Project Sub-total:			520	0	0	520	0	0	0	0	0	0	0
0	<u>WAT000340 ISLAND PLANT WINTERIZATION</u>													
0	1 PLANT WINTERIZATION & SUMMERIZATION	01/01/2005	12/31/2016	515	0	0	0	0	515	0	0	0	0	0
0	15 PLANT WINTERIZATION & SUMMERIZATION-2016 SC	01/01/2016	12/31/2016	-111	0	0	0	0	-111	0	0	0	0	0
	Project Sub-total:			404	0	0	0	0	404	0	0	0	0	0
0	<u>WAT000363 ENGINEERING STUDIES</u>													
0	2 IMPROVED TREATMENT STUDIES	01/01/2005	12/31/2017	207	0	0	0	0	207	0	0	0	0	0
0	18 CONTROLLED SUBSTANCES ID AND ABATEMENT	01/01/2007	12/31/2018	68	0	0	0	0	68	0	0	0	0	0
0	31 ENERGY EFFICIENCY IMPLEMENTATION	01/01/2008	12/31/2016	100	0	0	0	0	100	0	0	0	0	0
0	38 CORROSION CONTROL	01/01/2011	12/31/2016	404	0	0	25	0	379	0	0	0	0	0
0	64 IMPROVED TREATMENT STUDIES-2016 SC	01/01/2016	12/31/2017	160	0	0	0	0	50	0	0	110	0	0
0	65 SCRUBBER AND TONNER CONNECTION IMPROVEMENTS	01/01/2016	12/31/2020	100	0	0	0	0	100	0	0	0	0	0
0	68 CONTROLLED SUBSTANCES ID AND ABATEMENT-2016 SC	01/01/2016	12/31/2018	132	0	0	0	0	132	0	0	0	0	0
0	69 ENERGY EFFICIENCY IMPLEMENTATION-2016 SC	01/01/2016	12/31/2018	-95	0	0	0	0	-95	0	0	0	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail

**Water Program
Sub-Project Summary**

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2016	Financing											
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable		
0	<u>WAT000363</u>	<u>ENGINEERING STUDIES</u>														
0	71 CORROSION CONTROL-2016 SC	01/01/2016	12/31/2016	193	0	0	12	0	181	0	0	0	0	0	0	0
	Project Sub-total:			1,269	0	0	37	0	1,122	0	0	110	0	0	0	0
0	<u>WAT906334</u>	<u>BUSINESS SYSTEM INFRASTRUCTURE - PW</u>														
0	7 NETWORK EQUIPMENT REPLACEMENT	01/01/2008	12/31/2016	38	0	0	0	0	38	0	0	0	0	0	0	0
0	8 NETWORK CABLE LIFECYCLE REPLACEMENT	01/01/2008	12/31/2018	1,834	0	0	0	0	1,834	0	0	0	0	0	0	0
0	9 TRUNK RADIO SYSTEM	01/01/2015	12/31/2021	200	0	0	0	0	200	0	0	0	0	0	0	0
0	12 PCS LEGACY ALARM IMPROVEMENT	01/01/2011	12/31/2016	600	0	0	0	0	600	0	0	0	0	0	0	0
0	23 RELIABILITY IMPROVEMENT PROGRAM	01/01/2013	12/31/2016	885	0	0	0	0	885	0	0	0	0	0	0	0
0	41 BUSINESS & TECH IMPROVEMENT - PHASE 2	01/01/2012	12/31/2024	3,493	0	0	0	0	3,493	0	0	0	0	0	0	0
0	42 PCS UPGRADES FOR WATER SUPPLY	01/01/2012	12/31/2017	1,284	0	0	0	0	1,284	0	0	0	0	0	0	0
0	67 SCADA UPGRADES FOR WWT - II	01/01/2012	12/31/2019	415	0	0	0	0	415	0	0	0	0	0	0	0
0	76 NETWORK EQUIPMENT LIFE CYCLE REPLACEMENT-2016	01/01/2016	12/31/2016	3	0	0	0	0	3	0	0	0	0	0	0	0
0	78 NETWORK CABLE LIFE CYCLE REPLACEMENT-2016 SC	01/01/2016	12/31/2018	-1,739	0	0	0	0	-1,739	0	0	0	0	0	0	0
0	79 RELIABILITY IMPROVEMENT PROGRAM-2016 SC	01/01/2016	12/31/2018	-305	0	0	0	0	-305	0	0	0	0	0	0	0
0	80 PCS LEGACY ALARM IMPROVEMENT -2016 SC	01/01/2016	12/31/2017	-200	0	0	0	0	-200	0	0	0	0	0	0	0
0	81 PCS UPGRADES FOR WATER SUPPLY-2016 SC	01/01/2016	12/31/2017	188	0	0	0	0	188	0	0	0	0	0	0	0
0	82 SCADA UPGRADES FOR WWT - II -2016 SC	01/01/2016	12/31/2020	1,222	0	0	0	0	1,222	0	0	0	0	0	0	0
0	84 TRUNK RADIO SYSTEM-2016 SC	01/01/2016	12/31/2021	-170	0	0	0	0	-170	0	0	0	0	0	0	0
0	85 NETWORK IMPROVEMENTS	01/01/2016	12/31/2018	1,813	0	0	0	0	1,813	0	0	0	0	0	0	0
	Project Sub-total:			9,561	0	0	0	0	9,561	0	0	0	0	0	0	0
0	<u>WAT906340</u>	<u>METERING & METER READING SYS</u>														
0	2 AUTOMATED METER READING SYSTEM	01/01/2005	12/31/2017	30,367	0	0	0	0	30,367	0	0	0	0	0	0	0
0	17 AUTOMATED METER READING SYSTEM-2016 SC	01/01/2016	12/31/2020	-22,068	0	0	0	0	-22,068	0	0	0	0	0	0	0
	Project Sub-total:			8,299	0	0	0	0	8,299	0	0	0	0	0	0	0
0	<u>WAT906467</u>	<u>AVENUE ROAD TRUNKMAIN REPLACEMENT</u>														
0	2 AVENUE RD WM CONSTRUCTION - HI LEVEL TO LAWRENCE	01/01/2008	12/31/2016	1,521	0	0	767	0	470	0	0	284	0	0	0	0
0	6 JOS-AVENUE RD WM ENG-HI LEVEL-LAWRENCE	01/01/2005	12/31/2016	90	0	0	45	0	28	0	0	17	0	0	0	0
0	27 JOS-AVENUE WM ENG - HI LEVEL TO LAWRENCE-2016 SC	01/01/2016	12/31/2016	35	0	0	18	0	10	0	0	7	0	0	0	0
0	28 AVENUE RD WM CONS - HI LEVEL TO LAWRENCE - 2016 S	01/01/2016	12/31/2016	-521	0	0	-263	0	-161	0	0	-97	0	0	0	0
	Project Sub-total:			1,125	0	0	567	0	347	0	0	211	0	0	0	0
0	<u>WAT906468</u>	<u>HORGAN TRUNK MAIN EXPANSION</u>														
0	1 JOS - HORGAN TO ELLESMERE WM - ENGINEERING	01/01/2005	12/31/2020	1,100	0	0	417	0	326	0	0	357	0	0	0	0
0	3 JOS - HORGAN TO ELLESMERE WM - CONSTRUCTION	01/01/2009	12/31/2019	5,000	0	0	1,898	0	1,479	0	0	1,623	0	0	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail

**Water Program
Sub-Project Summary**

Project/Financing				2016	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	WAT906468	HORGAN TRUNK MAIN EXPANSION													
0	49	JOS - HORGAN TO ELLESMERE WM - ENG - 2016 SC	01/01/2016	12/31/2020	-1,100	0	0	-417	0	-326	0	0	-357	0	0
0	50	JOS - HORGAN TO ELLESMERE WM - CONS-2016 SC	01/01/2016	12/31/2019	-5,000	0	0	-1,898	0	-1,479	0	0	-1,623	0	0
		Project Sub-total:			0	0	0	0	0	0	0	0	0	0	0
0	WAT906470	ISLAND W.T.P. R&R													
0	8	CHEMICAL & RESIDUALS MANAGMENT ENGINEERING	01/01/2013	12/31/2021	680	0	0	0	0	680	0	0	0	0	0
0	11	CHEMICAL & RESIDUALS MANAGMENT CONST	01/01/2015	12/31/2020	1,850	0	0	112	0	1,738	0	0	0	0	0
0	28	CHEMICAL & RESIDUALS MANAGMENT ENGINEERING-20	01/01/2016	12/31/2023	-410	0	0	0	0	-410	0	0	0	0	0
0	29	CHEMICAL & RESIDUALS MANAGMENT CONST-2016 SC	01/01/2016	12/31/2021	150	0	0	10	0	140	0	0	0	0	0
		Project Sub-total:			2,270	0	0	122	0	2,148	0	0	0	0	0
0	WAT906481	DISTRICT WATERMAINS - NEW													
0	1	DIST W/MAINS NEW	01/01/2005	12/31/2016	500	0	0	500	0	0	0	0	0	0	0
0	14	NEW WM -2016 SC	01/01/2016	12/31/2017	-450	0	0	-450	0	0	0	0	0	0	0
		Project Sub-total:			50	0	0	50	0	0	0	0	0	0	0
0	WAT906483	PW ENGINEERING													
0	2	CAPITAL PRGMG & FACILITY ASSET PLANNING	01/01/2005	12/31/2018	1,669	0	0	0	0	1,669	0	0	0	0	0
0	5	WATERMAIN ASSET PLANNING	01/01/2007	12/31/2018	985	0	0	246	0	739	0	0	0	0	0
0	7	EASEMENT ACQUISITION	01/01/2007	12/31/2016	300	0	0	0	0	300	0	0	0	0	0
0	22	WATER LOSS REDUCTION STRATEGY	01/01/2012	12/31/2019	570	0	0	0	0	570	0	0	0	0	0
0	37	ASSET MGMT SYSTEM IMPLEMENTATION	01/01/2016	12/31/2025	100	0	0	25	0	75	0	0	0	0	0
0	52	JOS UPDATE PHASE II	01/01/2015	12/31/2017	1,000	0	0	0	0	1,000	0	0	0	0	0
0	59	WATERMAIN ASSET PLANNING-2016 SC	01/01/2016	12/31/2019	-175	0	0	-44	0	-451	0	0	320	0	0
0	60	JOS UPDATE PHASE II-2016 SC	01/01/2016	12/31/2018	-500	0	0	250	0	-1,000	0	0	250	0	0
0	61	CAPITAL PROG& FACILITY ASSET PLANNING-2016 SC	01/01/2016	12/31/2019	-318	0	0	0	0	-318	0	0	0	0	0
0	62	WATER LOSS REDUCTION STRATEGY-2016 SC	01/01/2016	12/31/2020	-363	0	0	0	0	-363	0	0	0	0	0
0	63	EASEMENT ACQUISITION-2016 SC	01/01/2016	12/31/2017	200	0	0	0	0	200	0	0	0	0	0
		Project Sub-total:			3,468	0	0	477	0	2,421	0	0	570	0	0
0	WAT906749	DOWNTOWN W/M ENHANCEMENT													
0	1	JOS - GERRARD ST WM - ENGINEERING	01/01/2006	12/31/2017	15	0	0	3	0	1	0	0	11	0	0
0	4	JOS - GERRARD ST WM - CONSTRUCTION	01/01/2010	12/31/2016	7,806	0	0	1,554	0	283	0	0	5,969	0	0
0	42	JOS - GERRARD ST WM - CONSTRUCTION -2016 SC	01/01/2016	12/31/2017	-7,161	0	0	-1,426	0	-259	0	0	-5,476	0	0
0	43	JOS - GERRARD ST WM - ENGINEERING-2016 SC	01/01/2016	12/31/2017	55	0	0	10	0	3	0	0	42	0	0
		Project Sub-total:			715	0	0	141	0	28	0	0	546	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail

Water Program
Sub-Project Summary

Project/Financing				2016	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	<u>WAT906752</u>	<u>TRANSMISSION R&R</u>													
0	49	TRUNK WATERMAIN REHAB	01/01/2013	12/31/2016	545	0	0	0	0	545	0	0	0	0	0
0	51	CAST IRON TRUNK REPLC - PHASE 2	01/01/2013	12/31/2019	13,574	0	0	0	0	13,574	0	0	0	0	0
0	52	CAST IRON TRUNK REPLC - PHASE 3 - ENGINEERING	01/01/2014	12/31/2019	1,703	0	0	0	0	1,703	0	0	0	0	0
0	58	CAST IRON TRUNK REPLC - PHASE 3 - CONSTRUCTION	01/01/2016	12/31/2018	2,000	0	0	0	0	2,000	0	0	0	0	0
0	71	TRUNK WATERMAIN REHAB-2016 SC	01/01/2016	12/31/2018	-295	0	0	0	0	-295	0	0	0	0	0
		Project Sub-total:			17,527	0	0	0	0	17,527	0	0	0	0	0
0	<u>WAT906900</u>	<u>TRANSMISSION R&R</u>													
0	1	TRANS FACILITIES REHAB	01/01/2006	12/31/2018	475	0	0	0	0	475	0	0	0	0	0
0	6	ELLESMERE P.S. UPGRADE	01/01/2015	12/31/2017	25	0	0	6	0	3	0	0	16	0	0
0	26	SCARBOROUGH PS - PUMP REPLC	01/01/2013	12/31/2016	534	0	0	0	0	534	0	0	0	0	0
0	27	EGLINTON PS -PUMP REPLC	01/01/2013	12/31/2016	299	0	0	0	0	299	0	0	0	0	0
0	36	ST CLAIR RESERVOIR REHAB/WATER QUALITY PROTECT	01/01/2014	12/31/2019	15,543	0	0	0	0	15,543	0	0	0	0	0
0	48	ROSEHILL RESERVOIR	01/01/2015	12/31/2018	8,000	0	0	0	0	8,000	0	0	0	0	0
0	49	DOWNSVIEW PS & CONNECTOR	01/01/2015	12/31/2017	150	0	0	0	0	150	0	0	0	0	0
0	50	PARKDALE PS REHABILITATION	01/01/2015	12/31/2017	1,500	0	0	0	0	1,500	0	0	0	0	0
0	51	ROSEHILL PS REHAB	01/01/2015	12/31/2017	975	0	0	0	0	975	0	0	0	0	0
0	62	DOWNSVIEW PS & CONNECTOR EA-2016 SC	01/01/2016	12/31/2017	200	0	0	0	0	200	0	0	0	0	0
0	63	PARKDALE PS REHABILITATION-2016 SC	01/01/2016	12/31/2019	-187	0	0	0	0	-187	0	0	0	0	0
0	64	TRANS FACILITIES REHAB-2016 SC	01/01/2016	12/31/2018	275	0	0	0	0	275	0	0	0	0	0
0	65	ELLESMERE P.S. UPGRADE-2016 SC	01/01/2016	12/31/2017	-25	0	0	-6	0	-3	0	0	-16	0	0
0	66	ROSEHILL PS REHAB-2016 SC	01/01/2016	12/31/2021	-640	0	0	0	0	-640	0	0	0	0	0
0	67	ARMOUR HEIGHTS PUMP#2 REPLC	01/01/2016	12/31/2019	100	0	0	0	0	100	0	0	0	0	0
0	68	ST CLAIR RESERVOIR REHAB/QUALITY PROTECTION-201	01/01/2016	12/31/2018	-11,193	0	0	0	0	-11,193	0	0	0	0	0
0	69	SCARBOROUGH PS - PUMP REPLC-2016 SC	01/01/2016	12/31/2016	-370	0	0	0	0	-370	0	0	0	0	0
0	71	EGLINTON PS - PUMP REPLC-2016 SC	01/01/2016	12/31/2016	8	0	0	0	0	8	0	0	0	0	0
0	73	ROSEHILL RESERVOIR-2016 SC	01/01/2016	12/31/2019	-7,351	0	0	0	0	-7,351	0	0	0	0	0
		Project Sub-total:			8,318	0	0	0	0	8,318	0	0	0	0	0
0	<u>WAT906902</u>	<u>HARRIS W.T.P. R&R</u>													
0	2	BUILDING ENVELOPE REHAB	01/01/2006	12/31/2016	13	0	0	0	0	13	0	0	0	0	0
0	3	FACILITY & PROCESS UPGRADES	01/01/2006	12/31/2017	500	0	0	0	0	500	0	0	0	0	0
0	21	HVAC REHAB - CONSTRUCTION	01/01/2010	12/31/2018	1,220	0	0	0	0	1,220	0	0	0	0	0
0	29	HARRIS FILTERS REHABILITATION - PILOT	01/01/2015	12/31/2018	3,600	0	0	0	0	3,600	0	0	0	0	0
0	56	REHAB OF SETTLING BASIN ROOF & SLUICE GATES	01/01/2014	12/31/2019	12,609	0	0	0	0	12,609	0	0	0	0	0
0	79	EXTERIOR SECURITY LIGHTING UPGRADES	01/01/2015	12/31/2017	950	0	0	0	0	950	0	0	0	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail

Water Program
Sub-Project Summary

Project/Financing				2016	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	<u>WAT906906</u>	<u>TRUNK WATERMAIN EXPANSION</u>													
0	25	JOS WM SCAR PS TO ST CLAIR AND MIDLAND - ENG	01/01/2009	12/31/2020	650	0	0	311	0	192	0	0	147	0	0
		Project Sub-total:			650	0	0	311	0	192	0	0	147	0	0
0	<u>WAT906914</u>	<u>SWITCH GEAR TRANSFORMER</u>													
0	13	INDOOR/OUTDOOR SWITCHGEAR (PHASE 3)	01/01/2012	12/31/2017	5,400	0	0	0	0	5,400	0	0	0	0	0
0	28	INDOOR/OUTDOOR SWITCHGEAR (PHASE 3)-2016 SC	01/01/2016	12/31/2017	-1,100	0	0	0	0	-1,100	0	0	0	0	0
		Project Sub-total:			4,300	0	0	0	0	4,300	0	0	0	0	0
0	<u>WAT906917</u>	<u>TRANSMISSION OPERATIONS OPTIMIZER</u>													
0	11	TRANSMISSION OPERATIONS OPTIMIZER - 2016 SC	01/01/2016	12/31/2016	2	0	0	0	0	1	0	0	1	0	0
		Project Sub-total:			2	0	0	0	0	1	0	0	1	0	0
0	<u>WAT906918</u>	<u>WATER SUSTAINABILITY PROGRAM</u>													
0	1	WATER SUSTAINABILITY PROGRAM	01/01/2013	12/31/2019	13,307	0	0	809	0	12,498	0	0	0	0	0
0	12	STANDBY POWER - ROSEHILL	01/01/2015	12/31/2017	4,850	0	0	0	0	4,850	0	0	0	0	0
0	17	WATER SUSTAINABILITY PROG STANDBY POWER-2016 SC	01/01/2016	12/31/2017	-3,007	0	0	-183	0	-5,925	0	0	3,101	0	0
0	18	STANDBY POWER - ROSEHILL-2016 SC	01/01/2016	12/31/2021	-4,453	0	0	24	0	-4,596	0	0	119	0	0
		Project Sub-total:			10,697	0	0	650	0	6,827	0	0	3,220	0	0
0	<u>WAT906919</u>	<u>RL CLARK W.T.P. R&R</u>													
0	1	FACILITY & PROCESS UPGRADES	01/01/2006	12/31/2017	215	0	0	0	0	215	0	0	0	0	0
0	8	PROCESS EQUIPMENT UPGRADE ENGINEERING	01/01/2008	12/31/2019	1,275	0	0	78	0	1,197	0	0	0	0	0
0	15	PROCESS EQUIPMENT UPGRADE CONSTRUCTION	01/01/2010	12/31/2018	7,800	0	0	475	0	7,325	0	0	0	0	0
0	44	EVALUATION & COMMUNICATION SYSTEMS	01/01/2013	12/31/2018	1,544	0	0	0	0	1,544	0	0	0	0	0
0	64	PROCESS EQUIPMENT UPGRADE CONSTRUCTION-2016 SC	01/01/2019	12/31/2019	0	0	0	-1	0	1	0	0	0	0	0
0	65	PROCESS EQUIPMENT UPGRADE ENGINEERING-2016 SC	01/01/2016	12/31/2020	-395	0	0	-24	0	-371	0	0	0	0	0
0	67	FACILITY & PROCESS UPGRADES-2016 SC	01/01/2016	12/31/2018	-65	0	0	0	0	-65	0	0	0	0	0
		Project Sub-total:			10,374	0	0	528	0	9,846	0	0	0	0	0
0	<u>WAT906930</u>	<u>DIST W/M REPLACEMENT</u>													
0	15	WM REPLC - STANDALONE	01/01/2010	12/31/2016	1,177	0	0	0	0	1,177	0	0	0	0	0
0	39	DIST W/M REPLACEMENT 2013	01/01/2013	12/31/2016	500	0	0	0	0	500	0	0	0	0	0
0	51	DIST W/M REPLACEMENT - 2014	01/01/2014	12/31/2016	6,764	0	0	0	0	6,764	0	0	0	0	0
0	52	WATERMAIN UPGRADES - 2014	01/01/2014	12/31/2016	2,087	0	0	0	0	2,087	0	0	0	0	0
0	55	WATERMAIN REPLACEMENT - METROLINX	01/01/2014	12/31/2019	50	0	0	0	0	50	0	0	0	0	0
0	63	DIST W/M REPLACEMENT - 2015	01/01/2015	12/31/2017	28,810	0	0	4,480	0	24,330	0	0	0	0	0
0	64	WATERMAIN UPGRADES - 2015	01/01/2015	12/31/2017	3,292	0	0	1,024	0	2,268	0	0	0	0	0
0	71	DIST W/M REPLACEMENT - 2014-2016 SC	01/01/2016	12/31/2017	-5,516	0	0	0	0	-5,516	0	0	0	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO
Appendix 5: 2016 Recommended Capital Budget with Financing Detail
Water Program
Sub-Project Summary

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2016	Financing									
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	<u>WAT906930</u>													
	<u>DIST W/M REPLACEMENT</u>													
0	72 DIST W/M REPLACEMENT - 2015-2016 SC	01/01/2017	12/31/2018	0	0	0	1	0	-1	0	0	0	0	0
0	73 DIST W/M REPLACEMENT - 2016	01/01/2016	12/31/2018	34,067	0	0	5,298	0	28,769	0	0	0	0	0
0	74 WATERMAIN UPGRADES - 2016	01/01/2016	12/31/2018	8,461	0	0	2,632	0	5,829	0	0	0	0	0
0	75 WATERMAIN UPGRADES - 2014-2016 SC	01/01/2016	12/31/2017	-1,729	0	0	0	0	-1,729	0	0	0	0	0
0	76 WATERMAIN UPGRADES - 2015-2016 SC	01/01/2016	12/31/2017	-1,835	0	0	-571	0	-1,264	0	0	0	0	0
0	77 2013 WM REPLC - UPGRADES-2016 SC	01/01/2016	12/31/2016	106	0	0	33	0	73	0	0	0	0	0
0	78 WM REPLC - STANDALONE-2016 SC	01/01/2016	12/31/2016	-1,177	0	0	0	0	-1,177	0	0	0	0	0
0	79 DIST W/M REPLC - 2012-2016 SC	01/01/2016	12/31/2016	148	0	0	0	0	148	0	0	0	0	0
0	80 2013 WM REPLC - SOGR-2016 SC	01/01/2016	12/31/2016	-480	0	0	0	0	-480	0	0	0	0	0
0	81 2011 WM REPLC-2016 SC	01/01/2016	12/31/2016	4	0	0	0	0	4	0	0	0	0	0
	Project Sub-total:			74,729	0	0	12,897	0	61,832	0	0	0	0	0
0	<u>WAT906932</u>													
	<u>DIST W/M REHABILITATION</u>													
0	4 HYDRANT & VALVE REPAIR	01/01/2007	12/31/2017	1,824	0	0	0	0	1,824	0	0	0	0	0
0	6 WATERMAIN STRUCTURAL LINING	01/01/2007	12/31/2019	54,415	0	0	0	0	54,415	0	0	0	0	0
0	7 CATHODIC PROTECTION	01/01/2007	12/31/2018	4,595	0	0	0	0	4,595	0	0	0	0	0
0	30 CUT REPAIRS	01/01/2007	12/31/2016	2,765	0	0	0	0	2,765	0	0	0	0	0
0	46 WATERMAIN STRUCTURAL LINING-2016 SC	01/01/2016	12/31/2020	-10,957	0	0	0	0	-10,957	0	0	0	0	0
0	47 HYDRANT & VALVE REPAIR-2016 SC	01/01/2016	12/31/2017	1,845	0	0	0	0	1,845	0	0	0	0	0
	Project Sub-total:			54,487	0	0	0	0	54,487	0	0	0	0	0
0	<u>WAT906934</u>													
	<u>DIST WATER SERVICE REPAIR</u>													
0	12 ALL DISTRICT WSR - LEAD REPLACEMENT	01/01/2008	12/31/2017	9,250	0	0	0	0	9,250	0	0	0	0	0
0	32 WSR CUT REPAIRS	01/01/2012	12/31/2016	2,100	0	0	0	0	2,100	0	0	0	0	0
0	41 2013 WATER SERVICE REPLACMENT -SOGR	01/01/2013	12/31/2016	1,253	0	0	0	0	1,253	0	0	0	0	0
0	52 2014 WATER SERVICE REPLACEMENT - SOGR	01/01/2014	12/31/2016	1,891	0	0	0	0	1,891	0	0	0	0	0
0	59 2015 WATER SERVICE REPLACEMENT - SOGR	01/01/2015	12/31/2017	9,000	0	0	0	0	9,000	0	0	0	0	0
0	67 WATER SERVICE REPAIR - LEAD PROGRAM-2016 SC	01/01/2016	12/31/2018	5,754	0	0	0	0	5,754	0	0	0	0	0
0	68 2016 WATER SERVICE REPLACEMENT - SOGR	01/01/2016	12/31/2018	10,001	0	0	0	0	10,001	0	0	0	0	0
0	69 2014 WATER SERVICE REPLACEMENT - SOGR-2016 SC	01/01/2016	12/31/2017	-672	0	0	0	0	-672	0	0	0	0	0
0	70 2015 WATER SERVICE REPLACEMENT - SOGR-2016 SC	01/01/2016	12/31/2019	-3,773	0	0	0	0	-3,773	0	0	0	0	0
0	71 WATER SERVICE REPAIR - WM REHAB PROGRAM	01/01/2016	12/31/2017	12,000	0	0	0	0	12,000	0	0	0	0	0
0	74 REPLACEMENT OF FROZEN SERVICES	01/01/2016	12/31/2018	1,000	0	0	0	0	1,000	0	0	0	0	0
0	75 WSR CUT REPAIRS WITH WM SL	01/01/2016	12/31/2017	1,750	0	0	0	0	1,750	0	0	0	0	0
0	76 WSR CUT REPAIR-2016 SC	01/01/2016	12/31/2017	-350	0	0	0	0	-350	0	0	0	0	0
0	77 2013 WSR-2016 SC	01/01/2016	12/31/2016	-1,004	0	0	0	0	-1,004	0	0	0	0	0



CITY OF TORONTO
Appendix 5: 2016 Recommended Capital Budget with Financing Detail
Water Program
Sub-Project Summary

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2016	Financing									
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	<u>WAT906934</u>	<u>DIST WATER SERVICE REPAIR</u>												
0	78 2011 WSR	01/01/2016	12/31/2016	15	0	0	0	0	15	0	0	0	0	0
0	79 2012 WATER SERVICE REPLC - 2016 SC	01/01/2016	12/31/2016	35	0	0	0	0	35	0	0	0	0	0
	Project Sub-total:			48,250	0	0	0	0	48,250	0	0	0	0	0
0	<u>WAT906935</u>	<u>NEW SERVICE CONNECTIONS</u>												
0	2 NEW SERVICE CONNECTIONS - CUT REPAIRS	01/01/2008	12/31/2016	4,080	0	0	0	0	4,080	0	0	0	0	0
0	7 NEW SERVICE CONNECTIONS - SITE SERVICING	01/01/2010	12/31/2018	22,100	0	0	0	0	22,100	0	0	0	0	0
0	21 NEW SERVICE CONNECTIONS - CUT REPAIRS-2016 SC	01/01/2016	12/31/2017	920	0	0	0	0	920	0	0	0	0	0
	Project Sub-total:			27,100	0	0	0	0	27,100	0	0	0	0	0
0	<u>WAT906951</u>	<u>ENGINEERING</u>												
0	2 CONSULTING FEES	01/01/2006	12/31/2021	11,389	0	0	0	0	11,389	0	0	0	0	0
0	63 ROAD RESTORATION	01/01/2006	12/31/2016	5,830	0	0	0	0	5,830	0	0	0	0	0
0	64 LEGAL SERVICES SALARIES-2016 SC	01/01/2016	12/31/2016	199	0	0	0	0	199	0	0	0	0	0
0	65 PPFA SALARIES-2016 SC	01/01/2016	12/31/2016	2,292	0	0	0	0	2,292	0	0	0	0	0
0	66 ECS SALARIES-2016 SC	01/01/2016	12/31/2016	13,081	0	0	0	0	13,081	0	0	0	0	0
0	67 ROAD RESTORATION-2016 SC	01/01/2016	12/31/2017	150	0	0	0	0	150	0	0	0	0	0
0	68 CONSULTING FEES-2016 SC	01/01/2016	12/31/2021	-4,359	0	0	0	0	-4,359	0	0	0	0	0
	Project Sub-total:			28,582	0	0	0	0	28,582	0	0	0	0	0
0	<u>WAT906977</u>	<u>ISLAND W.T.P. R&R</u>												
0	1 FACILITY & PROCESS UPGRADES	01/01/2006	12/31/2017	757	0	0	0	0	757	0	0	0	0	0
0	12 FACILITY UPGRADE - FORMER MARINE YARD	01/01/2011	12/31/2016	2,345	0	0	0	0	2,345	0	0	0	0	0
0	32 TRAVELLING SCREEN REPLACEMENT	01/01/2015	12/31/2018	2,120	0	0	0	0	2,120	0	0	0	0	0
0	44 ISLAND ENWAVE/RETROFIT PROJECT	01/01/2013	12/31/2016	27	0	0	0	0	27	0	0	0	0	0
0	50 AMMONIA AND FLOURIDE SYSTEM UPGRADES	01/01/2014	12/31/2018	880	0	0	0	0	880	0	0	0	0	0
0	51 CHEMICAL SYSTEMS` ELECTRICAL FEED DISTRIBUTION	01/01/2014	12/31/2016	365	0	0	0	0	365	0	0	0	0	0
0	69 GENERATORS` DR3 PROGRAM	01/01/2015	12/31/2017	750	0	0	0	0	750	0	0	0	0	0
0	70 PLANTWIDE HVAC UPGRADES	01/01/2015	12/31/2018	90	0	0	0	0	90	0	0	0	0	0
0	78 Generators DR3 Program-2016 SC	01/01/2016	12/31/2018	-670	0	0	0	0	-670	0	0	0	0	0
0	79 PLANTWIDE HVAC UPGRADES-2016 SC	01/01/2016	12/31/2018	-5	0	0	0	0	-5	0	0	0	0	0
0	81 TRAVELLING SCREEN REPLACEMENT-2016 SC	01/01/2016	12/31/2020	-1,950	0	0	0	0	-1,950	0	0	0	0	0
0	83 RAW WATER INTAKE CLEANING	01/01/2016	12/31/2017	100	0	0	0	0	100	0	0	0	0	0
0	84 CHEMICAL SYSTEMS` ELEC FEED DISTRIBUTION-2016 SC	01/01/2016	12/31/2017	-360	0	0	0	0	-360	0	0	0	0	0
0	85 AMMONIA AND FLOURIDE SYSTEM UPGRADES-2016 SC	01/01/2016	12/31/2019	-535	0	0	0	0	-535	0	0	0	0	0
0	86 ISLAND FILTER AIR SCOUR SYSTEM-2016 SC	01/01/2016	12/31/2016	100	0	0	6	0	94	0	0	0	0	0

(Phase 2) 10-Water Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail

Water Program
Sub-Project Summary

Project/Financing		Start Date	Completion Date	2016 Cash Flow	Financing								
Priority	Project Name				Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt
0	<u>WAT906977 ISLAND W.T.P. R&R</u>												
0	87 ISLAND ENWAVE/RETROFIT PROJECT-2016 SC	01/01/2016	12/31/2016	-27	0	0	0	0	-27	0	0	0	0
0	88 FACILITY & PROCESS UPGRADES-2016 SC	01/01/2016	12/31/2018	1,330	0	0	0	0	1,330	0	0	0	0
	Project Sub-total:			5,317	0	0	6	0	5,311	0	0	0	0
0	<u>WAT907353 LAWRENCE ALLAN REVITALIZATION PLAN</u>												
0	1 LAWRENCE ALLAN REVITALIZATION PLAN - INTERNAL	01/01/2013	12/31/2019	3,821	0	0	3,821	0	0	0	0	0	0
0	2 LAWRENCE ALLAN REVITALIZATION PLAN - EXTERNAL	01/01/2013	12/31/2017	2,633	0	0	2,633	0	0	0	0	0	0
0	8 LAWRENCE ALLAN REVITALIZATION PLAN-EXTERNAL-2010	01/01/2016	12/31/2017	1,459	0	0	1,459	0	0	0	0	0	0
	Project Sub-total:			7,913	0	0	7,913	0	0	0	0	0	0
0	<u>WAT907558 REGENT PARK CAPITAL CONTRIBUTION</u>												
0	1 REGENT PARK CAPITAL CONTRIBUTION	01/01/2011	12/31/2022	1,803	0	0	0	0	1,803	0	0	0	0
0	12 REGENT PARK CAPITAL CONTRIBUTION-2016 SC	01/01/2016	12/31/2022	553	0	0	2,356	0	-1,803	0	0	0	0
	Project Sub-total:			2,356	0	0	2,356	0	0	0	0	0	0
0	<u>WAT907946 BUSINESS IT PROJECTS</u>												
0	2 BACKFLOW INSPECTION PORTAL	01/01/2013	12/31/2017	200	0	0	0	0	200	0	0	0	0
0	4 EDOCS	01/01/2013	12/31/2016	150	0	0	0	0	150	0	0	0	0
0	7 ENTERPRISE WORK MANAGEMENT SYSTEM PROJECT	01/01/2014	12/31/2020	1,719	0	0	0	0	1,719	0	0	0	0
0	13 BACKFLOW INSPECTION PUBLIC REPORTING PORTAL-2001	01/01/2016	12/31/2017	-200	0	0	0	0	-200	0	0	0	0
0	14 ENTERPRISE WORK MANAGEMENT SYSTEM PROJECT-2010	01/01/2016	12/31/2021	-800	0	0	0	0	-800	0	0	0	0
0	15 EDOCS-2016 SC	01/01/2016	12/31/2016	-150	0	0	0	0	-150	0	0	0	0
	Project Sub-total:			919	0	0	0	0	919	0	0	0	0
0	<u>WAT908087 TRUNK WATERMAIN</u>												
0	1 TRANSMISSION SYSTEM AUTOMATION	01/01/2015	12/31/2018	1,750	0	0	0	0	1,750	0	0	0	0
0	4 JOS - REVENUE METER REPLACEMENT	01/01/2016	12/31/2018	50	0	0	0	0	25	0	0	25	0
0	6 3RD PARTY RELOCATIONS (METROLINX)	01/01/2015	12/31/2019	500	0	0	0	0	500	0	0	0	0
0	8 TRANSMISSION SYSTEM AUTOMATION-2016 SC	01/01/2016	12/31/2017	654	0	0	0	0	654	0	0	0	0
0	9 3RD PARTY RELOCATIONS (METROLINX)-2016 SC	01/01/2016	12/31/2021	-200	0	0	0	0	-200	0	0	0	0
	Project Sub-total:			2,754	0	0	0	0	2,729	0	0	25	0
0	<u>WAT908248 WT&S PLANTWIDE</u>												
0	1 UV DISINFECTION - CONCEPTUAL DESIGN	01/01/2016	12/31/2017	1,500	0	0	0	0	1,500	0	0	0	0

(Phase 2) 10-Water Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO
Appendix 5: 2016 Recommended Capital Budget with Financing Detail
Water Program
Sub-Project Summary

Project/Financing		Start Date	Completion Date	2016 Cash Flow	Financing									
Priority	Project Name				Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<u>0</u>	<u>WAT908248</u> <u>WT&S PLANTWIDE</u>													
0	6 STANDBY POWER - PHASE 2 - ENG	01/01/2016	12/31/2024	200	0	0	12	0	128	0	0	60	0	0
	Project Sub-total:			1,700	0	0	12	0	1,628	0	0	60	0	0
Program Total:				352,199	0	0	26,678	0	320,549	0	0	4,972	0	0

Status Code Description
 S2 S2 Prior Year (With 2016 and/or Future Year Cashflow)
 S3 S3 Prior Year - Change of Scope 2016 and/or Future Year Cost(Cashflow)
 S4 S4 New - Stand-Alone Project (Current Year Only)
 S5 S5 New (On-going or Phased Projects)

Category Code Description
 01 Health and Safety C01
 02 Legislated C02
 03 State of Good Repair C03
 04 Service Improvement and Enhancement C04
 05 Growth Related C05
 06 Reserved Category 1 C06
 07 Reserved Category 2 C07

(Phase 2) 11-Wastewater Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO
Appendix 5: 2016 Recommended Capital Budget with Financing Detail
Wastewater Program
Sub-Project Summary

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2016	Financing									
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	WAS000007 ASHBRIDGES BAY WWTP REHAB													
0	17 STANDBY POWER GENERATION	01/01/2005	12/31/2017	405	0	0	33	0	372	0	0	0	0	0
0	19 FERROUS UPGRADES	01/01/2013	12/31/2019	4,335	0	0	351	0	3,984	0	0	0	0	0
0	30 ELECTRICAL REHAB	01/01/2005	12/31/2018	9,818	0	0	0	0	9,818	0	0	0	0	0
0	41 POLYMER UPGRADE	01/01/2014	12/31/2023	700	0	0	0	0	700	0	0	0	0	0
0	47 P BLDG HEADWORKS ENG DESIGN&CONTRACT ADMIN	01/01/2005	12/31/2020	1,800	0	0	145	0	1,655	0	0	0	0	0
0	49 PROCESS UPGRADES & ODOUR CONTROL ENGINEERIN	01/01/2005	12/31/2017	555	0	0	45	0	510	0	0	0	0	0
0	189 PROCESS AND EQUIPMENT	01/01/2013	12/31/2017	4,633	0	0	0	0	4,633	0	0	0	0	0
0	190 FACILITY AND GROUNDS	01/01/2013	12/31/2016	771	0	0	0	0	771	0	0	0	0	0
0	215 DIGESTERS CLEANING REHAB - TANKS 14, 16, 13	01/01/2014	12/31/2019	3,725	0	0	0	0	3,725	0	0	0	0	0
0	216 OPERATIONS CENTRE - ENGINEERING	01/01/2016	12/31/2016	350	0	0	0	0	350	0	0	0	0	0
0	224 BRIDGE UPGRADES (D/P BUILDING)	01/01/2015	12/31/2019	1,100	0	0	0	0	1,100	0	0	0	0	0
0	226 ABTP - ENVIRONMENTAL ASSESSMENT	01/01/2015	12/31/2018	250	0	0	0	0	250	0	0	0	0	0
0	227 AIR HEADER REHAB	01/01/2015	12/31/2017	700	0	0	0	0	700	0	0	0	0	0
0	228 BLOWER BUILDING MAINTENANCE SHOP	01/01/2015	12/31/2017	100	0	0	0	0	100	0	0	0	0	0
0	229 D BUILDING PHASE 2	01/01/2015	12/31/2019	700	0	0	0	0	700	0	0	0	0	0
0	231 HOT WATER LOOP MODIFICATIONS	01/01/2015	12/31/2016	500	0	0	0	0	500	0	0	0	0	0
0	238 SECURITY UPGRADES	01/01/2015	12/31/2017	1,200	0	0	0	0	1,200	0	0	0	0	0
0	243 ELECTRICAL REHAB - ECAP-2016 SC	01/01/2016	12/31/2019	-5,392	0	0	0	0	-5,392	0	0	0	0	0
0	244 BRIDGE UPGRADES (D/P BUILDING)-2016 SC	01/01/2016	12/31/2019	-1,100	0	0	0	0	-1,100	0	0	0	0	0
0	245 D BUILDING PHASE 2-2016 SC	01/01/2016	12/31/2024	-200	0	0	0	0	-200	0	0	0	0	0
0	246 NEW FLEET PURCHASES	01/01/2016	12/31/2016	130	0	0	0	0	130	0	0	0	0	0
0	247 HEATING & AIR SYSTEMS ASSESSMENT	01/01/2016	12/31/2018	250	0	0	0	0	250	0	0	0	0	0
0	248 SOILS MANAGEMENT PLAN	01/01/2016	12/31/2018	100	0	0	0	0	100	0	0	0	0	0
0	249 P BLDG HEADWORKS - ENG DESIGN & CONT ADMIN-2016	01/01/2016	12/31/2018	260	0	0	21	0	239	0	0	0	0	0
0	250 PROCESS UPGRADES & ODOUR CONTROL ENG-2016 SC	01/01/2016	12/31/2017	-214	0	0	-17	0	-197	0	0	0	0	0
0	251 DIGESTERS CLEANING REHAB - TANKS 14,16,13-2016 SC	01/01/2016	12/31/2023	-95	0	0	0	0	-95	0	0	0	0	0
0	252 BLOWER BUILDING MAINTENANCE SHOP-2016 SC	01/01/2016	12/31/2017	-100	0	0	0	0	-100	0	0	0	0	0
0	257 STANDBY POWER GENERATION-2016 SC	01/01/2016	12/31/2017	-73	0	0	-6	0	-67	0	0	0	0	0
0	258 PROCESS AND EQUIPMENT-2016 SC	01/01/2016	12/31/2019	-2,328	0	0	0	0	-2,328	0	0	0	0	0
0	260 SECURITY UPGRADES-2016 SC	01/01/2016	12/31/2017	-1,200	0	0	0	0	-1,200	0	0	0	0	0
0	261 FERROUS UPGRADES-2016 SC	01/01/2016	12/31/2019	-2,620	0	0	-212	0	-2,408	0	0	0	0	0
0	262 AIR HEADER REHAB-2016 SC	01/01/2016	12/31/2018	-600	0	0	0	0	-600	0	0	0	0	0
0	263 POLYMER UPGRADE-2016 SC	01/01/2016	12/31/2023	-100	0	0	0	0	-100	0	0	0	0	0



CITY OF TORONTO
Appendix 5: 2016 Recommended Capital Budget with Financing Detail
Wastewater Program
Sub-Project Summary

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2016	Financing											
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable		
0	<u>WAS00007</u>	<u>ASHBRIDGES BAY WWTP REHAB</u>														
0	264 HVAC CONVERSION Z-BLDG	01/01/2016	12/31/2018	500	0	0	0	0	500	0	0	0	0	0	0	0
	Project Sub-total:			18,860	0	0	360	0	18,500	0	0	0	0	0	0	0
0	<u>WAS000115</u>	<u>HUMBER T.P.</u>														
0	9 CO-GENERATION	01/01/2005	12/31/2017	200	0	0	0	0	200	0	0	0	0	0	0	0
	Project Sub-total:			200	0	0	0	0	200	0	0	0	0	0	0	0
0	<u>WAS000259</u>	<u>TRUNK SEWER SYSTEM</u>														
0	15 TRUNK SEWER REHABILITATION - 2012	01/01/2012	12/31/2020	6,281	0	0	0	0	6,281	0	0	0	0	0	0	0
0	23 TRUNK SEWER REHABILITATION	01/01/2009	12/31/2016	15	0	0	0	0	15	0	0	0	0	0	0	0
0	27 TRUNK SEWER REHABILITATION - 2014	01/01/2014	12/31/2019	27,325	0	0	0	0	27,325	0	0	0	0	0	0	0
0	34 BLACK CREEK STS EA	01/01/2008	12/31/2017	600	0	0	0	0	600	0	0	0	0	0	0	0
0	44 TRUNK SEWER REHABILITATION - 2014-2016 SC	01/01/2016	12/31/2020	3,413	0	0	0	0	3,413	0	0	0	0	0	0	0
0	45 TRUNK SEWER REHABILITATION - 2012-2016 SC	01/01/2016	12/31/2020	-912	0	0	0	0	-912	0	0	0	0	0	0	0
0	46 TRUNK SEWER REHABILITATION-2016 SC	01/01/2016	12/31/2016	-15	0	0	0	0	-15	0	0	0	0	0	0	0
0	47 TRUNK SEWER REHABILITATION - 2016	01/01/2016	12/31/2021	1,000	0	0	0	0	1,000	0	0	0	0	0	0	0
0	48 BLACK CREEK STS EA-2016 SC	01/01/2016	12/31/2017	250	0	0	0	0	250	0	0	0	0	0	0	0
	Project Sub-total:			37,957	0	0	0	0	37,957	0	0	0	0	0	0	0
0	<u>WAS000442</u>	<u>BASEMENT FLOODING RELIEF</u>														
0	1 BASEMENT FLOODING PROTECTION SUBSIDY PROGRAM	01/01/2005	12/31/2017	2,000	0	0	0	0	2,000	0	0	0	0	0	0	0
0	8 BASEMENT FLOODING STUDIES & EAS	01/01/2006	12/31/2019	2,023	0	0	0	0	2,023	0	0	0	0	0	0	0
0	9 BASEMENT FLOODING RELIEF - TUNNEL PROJECT	01/01/2013	12/31/2021	15,000	0	0	0	0	15,000	0	0	0	0	0	0	0
0	12 ROAD RESTORATION FOR BSMT FLDG	01/01/2012	12/31/2016	800	0	0	0	0	800	0	0	0	0	0	0	0
0	14 BASEMENT FLOODING DESIGN - GROUP 1	01/01/2008	12/31/2018	525	0	0	0	0	525	0	0	0	0	0	0	0
0	18 BASEMENT FLOODING DESIGN - GROUP 2	01/01/2011	12/31/2021	4,730	0	0	0	0	4,730	0	0	0	0	0	0	0
0	19 BASEMENT FLOODING RELIEF - GROUP 2	01/01/2014	12/31/2019	31,492	0	0	0	0	31,492	0	0	0	0	0	0	0
0	20 BASEMENT FLOODING DESIGN - GROUP 3	01/01/2014	12/31/2019	3,024	0	0	0	0	3,024	0	0	0	0	0	0	0
0	29 BASEMENT FLOODING RELIEF - GROUP 1	01/01/2010	12/31/2017	10,267	0	0	0	0	10,267	0	0	0	0	0	0	0
0	76 BASEMENT FLOODING FLOW MONITORING	01/01/2016	12/31/2021	1,000	0	0	0	0	1,000	0	0	0	0	0	0	0
0	77 BASEMENT FLOODING DESIGN - GROUP 4	01/01/2015	12/31/2024	4,412	0	0	0	0	4,412	0	0	0	0	0	0	0
0	81 BASEMENT FLOODING STUDIES & EAS-CW IMPLEMENTA	01/01/2014	12/31/2018	7,000	0	0	0	0	7,000	0	0	0	0	0	0	0
0	86 BASEMENT FLOODING RELIEF - TUNNEL PROJECT-2016	01/01/2016	12/31/2024	-12,985	0	0	0	0	-12,985	0	0	0	0	0	0	0
0	88 BASEMENT FLOODING DESIGN - GROUP 4 ENG-2016 SC	01/01/2016	12/31/2025	2,471	0	0	0	0	2,471	0	0	0	0	0	0	0
0	92 BMST STUDIES & EA'S -IMPLEMENTATION-2016 SC	01/01/2016	12/31/2018	-686	0	0	0	0	-686	0	0	0	0	0	0	0
0	94 BASEMENT FLOODING PROTECTION SUBSIDY PROG-201	01/01/2016	12/31/2018	3,500	0	0	0	0	3,500	0	0	0	0	0	0	0

(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail

Wastewater Program

Sub-Project Summary

Project/Financing				2016	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	<u>WAS000442</u>	<u>BASEMENT FLOODING RELIEF</u>													
0	95 ROAD RESTORATION FOR BSMT FLDG PRJS-2016 SC		01/01/2016	12/31/2017	-335	0	0	0	0	-335	0	0	0	0	0
0	96 BASEMENT FLOODING DESIGN - GROUP 1-2016 SC		01/01/2016	12/31/2018	-126	0	0	0	0	-126	0	0	0	0	0
0	98 BASEMENT FLOODING RELIEF - GROUP 1-2016 SC		01/01/2016	12/31/2018	-7,968	0	0	0	0	-7,968	0	0	0	0	0
0	99 BASEMENT FLOODING RELIEF - GROUP 2-2016 SC		01/01/2016	12/31/2021	6,370	0	0	0	0	6,370	0	0	0	0	0
0	101 BASEMENT FLOODING STUDIES & EAS-2016 SC		01/01/2016	12/31/2020	-1,320	0	0	0	0	-1,320	0	0	0	0	0
		Project Sub-total:			71,194	0	0	0	0	71,194	0	0	0	0	0
0	<u>WAS000521</u>	<u>HIGHLAND CREEK WWTP - BUILDING SERV & SITE DEV</u>													
0	3 HCTP BLDG REHAB & IMPROVEMENTS		01/01/2012	12/31/2019	3,500	0	0	0	0	3,500	0	0	0	0	0
		Project Sub-total:			3,500	0	0	0	0	3,500	0	0	0	0	0
0	<u>WAS000951</u>	<u>NEW SEWER CONSTRUCTION</u>													
0	16 WESTERN BEACHES STORAGE TUNNEL		01/01/2016	12/31/2016	1	0	0	0	0	1	0	0	0	0	0
		Project Sub-total:			1	0	0	0	0	1	0	0	0	0	0
0	<u>WAS906322</u>	<u>W&WW LABORATORIES</u>													
0	9 LAB EQUIPMENT		01/01/2008	12/31/2018	120	0	0	0	0	120	0	0	0	0	0
0	30 LAB EQUIPMENT-2016 SC		01/01/2016	12/31/2018	172	0	0	0	0	172	0	0	0	0	0
		Project Sub-total:			292	0	0	0	0	292	0	0	0	0	0
0	<u>WAS906328</u>	<u>SWM END OF PIPE FACILITIES</u>													
0	9 NORTH TORONTO CSO CONSTR		01/01/2013	12/31/2016	2,973	0	0	239	0	2,734	0	0	0	0	0
0	11 Bonar Creek Construction		01/01/2014	12/31/2020	450	0	0	36	0	414	0	0	0	0	0
0	12 EARL BALES SWM FACILITY - PHASE 2		01/01/2012	12/31/2016	8,582	0	0	692	0	7,890	0	0	0	0	0
0	58 EARL BALES PARK SWM FACILITY - PHASE 2-2016 SC		01/01/2017	12/31/2017	0	0	0	1	0	-1	0	0	0	0	0
0	60 NORTH TORONTO CSO CONSTR-2016 SC		01/01/2016	12/31/2016	2	0	0	0	0	2	0	0	0	0	0
0	61 YR03 D1 END OF PIPE		01/01/2016	12/31/2016	1	0	0	0	0	1	0	0	0	0	0
		Project Sub-total:			12,008	0	0	968	0	11,040	0	0	0	0	0
0	<u>WAS906331</u>	<u>SWM SOURCE CONTROL PROG</u>													
0	9 DOWNSPOUT DISCONNECTION PROGRAM		01/01/2005	12/31/2018	150	0	0	0	0	150	0	0	0	0	0
		Project Sub-total:			150	0	0	0	0	150	0	0	0	0	0
0	<u>WAS906380</u>	<u>HIGHLAND CREEK WWTP - ODOUR CONTROL</u>													
0	1 ODOUR CONTROL UPGRADES - PHASE 1 ENG		01/01/2008	12/31/2019	605	0	0	49	0	556	0	0	0	0	0
0	2 ODOUR CONTROL UPGRADES PHASE 1 CONST		01/01/2013	12/31/2019	19,000	0	0	1,529	0	17,471	0	0	0	0	0
0	18 ODOUR CONTROL UPGRADES - PHASE 1 CONSTR-2016 S		01/01/2016	12/31/2019	-1,000	0	0	-80	0	-920	0	0	0	0	0

(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail

Wastewater Program

Sub-Project Summary

Project/Financing				2016	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	<u>WAS906495</u>	<u>SEWER ASSET PLANNING</u>													
0	5	SEWER ASSET PLANNING	01/01/2007	12/31/2019	3,966	0	0	319	0	3,647	0	0	0	0	0
0	7	SEWER SYSTEM INSPECTION	01/01/2010	12/31/2021	13,213	0	0	0	0	13,213	0	0	0	0	0
0	21	PPD - INFRASTRUCTURE PLANNING STUDIES	01/01/2014	12/31/2016	150	0	0	0	0	150	0	0	0	0	0
0	28	PPD - INFRASTRUCTURE PLANNING STUDIES-2016 SC	01/01/2016	12/31/2017	213	0	0	0	0	213	0	0	0	0	0
0	29	SEWER SYSTEM INSPECTION-2016 SC	01/01/2016	12/31/2018	-4,764	0	0	0	0	-4,764	0	0	0	0	0
0	30	SEWER ASSET PLANNING-2016 SC	01/01/2016	12/31/2020	355	0	0	29	0	326	0	0	0	0	0
		Project Sub-total:			13,133	0	0	348	0	12,785	0	0	0	0	0
0	<u>WAS906500</u>	<u>NEW SEWER CONSTRUCTION</u>													
0	5	NEW SEWERS	01/01/2008	12/31/2016	1,000	0	0	622	0	378	0	0	0	0	0
0	25	DOWNSVIEW LANDS EXTERNAL UPGRADES	01/01/2015	12/31/2017	4,000	0	0	4,000	0	0	0	0	0	0	0
0	29	DOWNSVIEW LANDS EXTERNAL UPGRADES-2016 SC	01/01/2016	12/31/2019	-3,950	0	0	-3,950	0	0	0	0	0	0	0
0	30	NEW SEWERS-2016 SC	01/01/2016	12/31/2017	-990	0	0	-616	0	-374	0	0	0	0	0
		Project Sub-total:			60	0	0	56	0	4	0	0	0	0	0
0	<u>WAS906501</u>	<u>YARD & BUILDING RENOVATION</u>													
0	11	YARDS & BUILDING RENOVATION	01/01/2016	12/31/2018	2	0	0	0	0	2	0	0	0	0	0
		Project Sub-total:			2	0	0	0	0	2	0	0	0	0	0
0	<u>WAS906735</u>	<u>DIST SEWER REHAB OPS YR2005</u>													
0	10	GROUP 1 SEWAGE PUMPING STATION UPGRADES	01/01/2005	12/31/2016	12	0	0	1	0	11	0	0	0	0	0
0	17	GROUP 1 SEWAGE PUMPING STATION UPGRADES -2016 SC	01/01/2016	12/31/2017	-8	0	0	-1	0	-7	0	0	0	0	0
		Project Sub-total:			4	0	0	0	0	4	0	0	0	0	0
0	<u>WAS906741</u>	<u>HIGHLAND CREEK TP YR2005</u>													
0	1	WAS THICKENING AND DEWATERING - ENG	01/01/2005	12/31/2017	115	0	0	9	0	106	0	0	0	0	0
0	18	WAS THICKENING AND DEWATERING - ENG-2016 SC	01/01/2016	12/31/2018	-108	0	0	-8	0	-100	0	0	0	0	0
		Project Sub-total:			7	0	0	1	0	6	0	0	0	0	0
0	<u>WAS906742</u>	<u>HUMBER TP YR2005</u>													
0	8	ODOUR CONTROL ENGINEERING	01/01/2008	12/31/2019	1,750	0	0	0	0	1,750	0	0	0	0	0
0	55	ODOUR CONTROL ENGINEERING-2016 SC	01/01/2016	12/31/2019	-511	0	0	0	0	-511	0	0	0	0	0
		Project Sub-total:			1,239	0	0	0	0	1,239	0	0	0	0	0
0	<u>WAS906743</u>	<u>ASHRIDGES BAY TP YR2005</u>													
0	1	MISC MECH ENGINEERING	01/01/2005	12/31/2018	905	0	0	73	0	832	0	0	0	0	0
0	4	M & T RETROFIT	01/01/2005	12/31/2016	409	0	0	0	0	409	0	0	0	0	0
0	7	SERVICE AIR UPGRADES	01/01/2006	12/31/2018	2,400	0	0	0	0	2,400	0	0	0	0	0

(Phase 2) 11-Wastewater Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO
Appendix 5: 2016 Recommended Capital Budget with Financing Detail
Wastewater Program
Sub-Project Summary

Project/Financing				2016	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	<u>WAS906743</u>	<u>ASHRIDGES BAY TP YR2005</u>													
0	56 M & T RETROFIT-2016 SC		01/01/2016	12/31/2016	-406	0	0	0	0	-406	0	0	0	0	0
0	57 MISC MECH ENGINEERING-2016 SC		01/01/2016	12/31/2019	-545	0	0	-44	0	-501	0	0	0	0	0
0	58 SERVICE AIR UPGRADES-2016 SC		01/01/2016	12/31/2019	-845	0	0	0	0	-845	0	0	0	0	0
		Project Sub-total:			1,918	0	0	29	0	1,889	0	0	0	0	0
0	<u>WAS906755</u>	<u>WESTERN BEACHES RETROFIT</u>													
0	1 WESTERN BEACHES RETROFIT		01/01/2005	12/31/2017	4,100	0	0	330	0	3,770	0	0	0	0	0
0	13 WESTERN BEACHES RETROFIT-2016 SC		01/01/2016	12/31/2021	-3,180	0	0	-256	0	-2,924	0	0	0	0	0
		Project Sub-total:			920	0	0	74	0	846	0	0	0	0	0
0	<u>WAS906926</u>	<u>OPERATIONAL SUPPORT</u>													
0	6 FACILITY RENOVATION		01/01/2006	12/31/2016	1,431	0	0	0	0	1,431	0	0	0	0	0
0	23 EMP MONITORING NEEDS		01/01/2010	12/31/2017	50	0	0	0	0	50	0	0	0	0	0
0	40 WWTP PLC PLATFORM UPGRADE		01/01/2013	12/31/2021	3,180	0	0	0	0	3,180	0	0	0	0	0
0	98 DESIGNATED SUBSTANCE ABATEMENT		01/01/2007	12/31/2016	100	0	0	0	0	100	0	0	0	0	0
0	100 DIVISIONAL SECURITY-2016 SC		01/01/2016	12/31/2017	925	0	0	0	0	925	0	0	0	0	0
0	101 FACILITY RENOVATION-2016 SC		01/01/2016	12/31/2018	69	0	0	0	0	69	0	0	0	0	0
0	102 PCS UPGRADES FOR WASTEWATER TREATMENT-2016 SC		01/01/2016	12/31/2021	-1,536	0	0	0	0	-1,536	0	0	0	0	0
0	103 NORTHLINE: BUILDING DEMO AND PAVING-2016 SC		01/01/2016	12/31/2016	300	0	0	0	0	300	0	0	0	0	0
		Project Sub-total:			4,519	0	0	0	0	4,519	0	0	0	0	0
0	<u>WAS906958</u>	<u>SEWER SYSTEM REHABILITATION</u>													
0	5 CCTV INSPECTION		01/01/2007	12/31/2016	1,200	0	0	0	0	1,200	0	0	0	0	0
0	8 SPS SCADA UPGRADES - ENGINEERING		01/01/2008	12/31/2017	713	0	0	57	0	656	0	0	0	0	0
0	9 SEWER REHABILITATION		01/01/2008	12/31/2018	31,120	0	0	0	0	31,120	0	0	0	0	0
0	23 SEWAGE PUMPING STATION STANDBY POWER		01/01/2009	12/31/2016	252	0	0	20	0	232	0	0	0	0	0
0	24 GROUP 5 SEWAGE PUMPING STATION UPGRADES		01/01/2013	12/31/2021	4,250	0	0	342	0	3,908	0	0	0	0	0
0	74 GROUPS 2, 3 & 4 SEWAGE PS UPGRADES-2016 SC		01/01/2016	12/31/2016	6	0	0	1	0	5	0	0	0	0	0
0	75 GROUP 5 SEWAGE PUMPING STATION UPGRADES-2016 SC		01/01/2016	12/31/2020	-1,637	0	0	-132	0	-1,505	0	0	0	0	0
0	76 SEWAGE PUMPING STATION STANDBY POWER-2016 SC		01/01/2016	12/31/2017	-199	0	0	-16	0	-183	0	0	0	0	0
0	78 SEWER REHABILITATION-2016 SC		01/01/2016	12/31/2018	4,518	0	0	0	0	4,518	0	0	0	0	0
0	79 SEWER REHABILITATION - CWD		01/01/2016	12/31/2018	20,250	0	0	1,607	0	18,643	0	0	0	0	0
0	80 CCTV INSPECTION-2016 SC		01/01/2016	12/31/2016	75	0	0	0	0	75	0	0	0	0	0
		Project Sub-total:			60,548	0	0	1,879	0	58,669	0	0	0	0	0
0	<u>WAS906960</u>	<u>STREAM RESTORATION & EROSION CONTROL</u>													
0	7 STREAM RESTORATION		01/01/2008	12/31/2020	10,895	0	0	877	0	10,018	0	0	0	0	0

(Phase 2) 11-Wastewater Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO
Appendix 5: 2016 Recommended Capital Budget with Financing Detail
Wastewater Program
Sub-Project Summary

Project/Financing		Start Date	Completion Date	2016	Financing									
Priority	Project			Project Name	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt
0		<u>WAS906960</u> STREAM RESTORATION & EROSION CONTROL												
0		38 HIGHLAND CREEK STREAM RESTORATION-2016 SC	01/01/2016	12/31/2017	20	0	0	2	0	18	0	0	0	0
0		39 STREAM RESTORATION - PHASE 2	01/01/2016	12/31/2025	950	0	0	76	0	874	0	0	0	0
0		40 STREAM RESTORATION -2016 SC	01/01/2016	12/31/2021	-5,421	0	0	-437	0	-4,984	0	0	0	0
Project Sub-total:					6,444	0	0	518	0	5,926	0	0	0	0
0		<u>WAS906966</u> SWM TRCA FUNDING												
0		22 TORONTO WATER TRANSFER TO TRCA CAPITAL-2016 SC	01/01/2016	12/31/2016	4,171	0	0	336	0	3,835	0	0	0	0
Project Sub-total:					4,171	0	0	336	0	3,835	0	0	0	0
0		<u>WAS906968</u> ENGINEERING												
0		2 CONSULTING FEES	01/01/2006	12/31/2021	8,056	0	0	0	0	8,056	0	0	0	0
0		59 ROAD RESTORATION	01/01/2006	12/31/2016	1,249	0	0	0	0	1,249	0	0	0	0
0		61 CONSULTING FEES-2016 SC	01/01/2016	12/31/2021	-2,299	0	0	0	0	-2,299	0	0	0	0
0		62 ECS SALARIES-2016 SC	01/01/2016	12/31/2016	13,081	0	0	0	0	13,081	0	0	0	0
0		63 ROAD RESTORATION-2016 SC	01/01/2016	12/31/2017	20	0	0	0	0	20	0	0	0	0
Project Sub-total:					20,107	0	0	0	0	20,107	0	0	0	0
0		<u>WAS906973</u> SEWER REPLACEMENT PROGRAM												
0		24 SEWAGE FORCEMAIN REPLACEMENT	01/01/2012	12/31/2017	1,505	0	0	0	0	1,505	0	0	0	0
0		25 SEWER REPLACEMENT 2012	01/01/2012	12/31/2016	1,279	0	0	0	0	1,279	0	0	0	0
0		35 SEWER REPLACEMENT - 2013 PROGRAM	01/01/2013	12/31/2016	517	0	0	42	0	475	0	0	0	0
0		36 SEWER REPLC - 2014 PROGRAM	01/01/2014	12/31/2016	2,104	0	0	0	0	2,104	0	0	0	0
0		44 COXWELL EMERGENCY TRUNK REPAIR	01/01/2009	12/31/2016	54	0	0	0	0	54	0	0	0	0
0		52 SEWER REPLACEMENT - METROLINX	01/01/2014	12/31/2019	57	0	0	0	0	57	0	0	0	0
0		62 SEWER REPLC - 2015 PROGRAM	01/01/2015	12/31/2017	7,331	0	0	590	0	6,741	0	0	0	0
0		70 FORCEMAIN REPLACEMENT-2016 SC	01/01/2016	12/31/2016	-1,500	0	0	0	0	-1,500	0	0	0	0
0		71 SEWER REPLC - 2016 PROGRAM	01/01/2016	12/31/2018	7,447	0	0	600	0	6,847	0	0	0	0
0		72 COXWELL EMERGENCY TRUNK REPAIR-2016 SC	01/01/2016	12/31/2016	149	0	0	0	0	149	0	0	0	0
0		73 SEWER REPLC - 2014 PROGRAM-2016 SC	01/01/2016	12/31/2017	-1,898	0	0	0	0	-1,898	0	0	0	0
0		74 SEWER REPLC - 2015 PROGRAM-2016 SC	01/01/2016	12/31/2018	2,554	0	0	206	0	2,348	0	0	0	0
0		75 FORCEMAIN REPLACEMENT - 2016	01/01/2016	12/31/2021	2,100	0	0	0	0	2,100	0	0	0	0
0		76 2012 SEWER REPLC-2016 SC	01/01/2016	12/31/2017	-1,278	0	0	0	0	-1,278	0	0	0	0
0		77 2013 SEWER REPLC-2016 SC	01/01/2016	12/31/2016	-504	0	0	-41	0	-463	0	0	0	0
Project Sub-total:					19,917	0	0	1,397	0	18,520	0	0	0	0
0		<u>WAS906980</u> ASHBRIDGES BAY T.P. YR2006												
0		9 DEWATERING EQUIPMENT UPGRADES	01/01/2006	12/31/2017	510	0	0	41	0	469	0	0	0	0

(Phase 2) 11-Wastewater Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO
Appendix 5: 2016 Recommended Capital Budget with Financing Detail
Wastewater Program
Sub-Project Summary

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2016	Financing											
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable		
0	<u>WAS906980</u>	<u>ASHBRIDGES BAY T.P. YR2006</u>														
0	40 DEWATERING EQUIPMENT UPGRADES-2016 SC	01/01/2016	12/31/2017	-213	0	0	-17	0	-196	0	0	0	0	0	0	0
	Project Sub-total:			297	0	0	24	0	273	0	0	0	0	0	0	0
0	<u>WAS906981</u>	<u>HIGHLAND CREEK WWTP UPGRADES</u>														
0	1 PROCESS & FACILITY UPGRADE	01/01/2006	12/31/2022	2,110	0	0	0	0	2,110	0	0	0	0	0	0	0
0	3 BIOSOLIDS TREATMENT UPGRADES	01/01/2006	12/31/2020	18,390	0	0	1,487	0	16,903	0	0	0	0	0	0	0
0	5 TRANSFORMERS AND SWITCHGEAR	01/01/2006	12/31/2021	500	0	0	40	0	460	0	0	0	0	0	0	0
0	7 MECH & ELECTRICAL UPGRADE ENGINEERING	01/01/2006	12/31/2017	1,578	0	0	0	0	1,578	0	0	0	0	0	0	0
0	8 DIGESTER GAS SYSTEM UPGRADES	01/01/2011	12/31/2018	4,661	0	0	0	0	4,661	0	0	0	0	0	0	0
0	16 MECH SYSTEM UPGRADES - CONSTR	01/01/2008	12/31/2016	762	0	0	0	0	762	0	0	0	0	0	0	0
0	23 ELECTRICAL UPGRADES - ECAR	01/01/2012	12/31/2019	3,599	0	0	0	0	3,599	0	0	0	0	0	0	0
0	31 ELEC SYSTEM UPGRADES - CONSTR	01/01/2009	12/31/2016	1,383	0	0	0	0	1,383	0	0	0	0	0	0	0
0	32 CEPA COMPLIANCE - CL NOTICE - HCTP	01/01/2009	12/31/2017	450	0	0	0	0	450	0	0	0	0	0	0	0
0	80 DIGESTER CLEANING, REHAB AND IMPROVEMENTS #4-7	01/01/2014	12/31/2017	1,500	0	0	0	0	1,500	0	0	0	0	0	0	0
0	83 PLANT FIRM CAPACITY - CONCEPT DESIGN	01/01/2014	12/31/2016	25	0	0	0	0	25	0	0	0	0	0	0	0
0	90 PROCESS IMPROVEMENTS (ROADMAP FOR RCM)	01/01/2015	12/31/2017	150	0	0	0	0	150	0	0	0	0	0	0	0
0	91 PROCESS, EQUIPMENT, FACILITY UPGRADES	01/01/2015	12/31/2017	735	0	0	0	0	735	0	0	0	0	0	0	0
0	92 LIQUID TRAIN REPAIRS - PHASE 1	01/01/2015	12/31/2019	2,650	0	0	0	0	2,650	0	0	0	0	0	0	0
0	101 AERATION SYSTEM AND ASSOCIATED BUILDING UPGRAD	01/01/2016	12/31/2021	100	0	0	0	0	100	0	0	0	0	0	0	0
0	102 LIQUID TRAIN - ENGINEERING	01/01/2015	12/31/2024	4,100	0	0	0	0	4,100	0	0	0	0	0	0	0
0	106 PROCESS & FACILITY UPGRADE-2016 SC	01/01/2016	12/31/2021	-462	0	0	0	0	-462	0	0	0	0	0	0	0
0	107 MECH & ELECTRICAL UPGRADE ENGINEERING-2016 SC	01/01/2016	12/31/2017	-1,386	0	0	0	0	-1,386	0	0	0	0	0	0	0
0	110 MECH SYSTEM UPGRADES - CONSTR-2016 SC	01/01/2016	12/31/2016	-762	0	0	0	0	-762	0	0	0	0	0	0	0
0	111 ELEC SYSTEM UPGRADES - CONSTR-2016 SC	01/01/2016	12/31/2017	-1,375	0	0	0	0	-1,375	0	0	0	0	0	0	0
0	112 DIGESTER CLEANING, REHAB&IMPROVEMENTS #4-7-2011	01/01/2016	12/31/2020	-1,363	0	0	0	0	-1,363	0	0	0	0	0	0	0
0	113 PROCESS IMPROVEMENTS (ROADMAP FOR RCM)-2016 S	01/01/2016	12/31/2017	-100	0	0	0	0	-100	0	0	0	0	0	0	0
0	114 PROCESS, EQUIPMENT, FACILITY UPGRADES-2016 SC	01/01/2016	12/31/2017	-560	0	0	0	0	-560	0	0	0	0	0	0	0
0	115 PLANT FIRM CAPACITY - CONCEPT DESIGN-2016 SC	01/01/2016	12/31/2016	-25	0	0	0	0	-25	0	0	0	0	0	0	0
0	116 CEPA COMPLIANCE - CL NOTICE - HCTP-2016 SC	01/01/2016	12/31/2018	-425	0	0	0	0	-425	0	0	0	0	0	0	0
0	117 LIQUID TRAIN REPAIRS - PHASE 1-2016 SC	01/01/2016	12/31/2018	-610	0	0	0	0	-610	0	0	0	0	0	0	0
0	118 BIOSOLIDS TREATMENT UPGRADES -2016 SC	01/01/2016	12/31/2017	-7,938	0	0	-641	0	-7,297	0	0	0	0	0	0	0
0	121 ELECTRICAL UPGRADES - ECAR-2016 SC	01/01/2016	12/31/2020	-2,358	0	0	0	0	-2,358	0	0	0	0	0	0	0
0	122 LIQUID TRAIN - ENGINEERING-2016 SC	01/01/2016	12/31/2025	2	0	0	0	0	2	0	0	0	0	0	0	0
0	123 COMMUNICATION SYSTEM	01/01/2016	12/31/2021	200	0	0	0	0	200	0	0	0	0	0	0	0
	Project Sub-total:			25,531	0	0	886	0	24,645	0	0	0	0	0	0	0



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail

Wastewater Program

Sub-Project Summary

Project/Financing				2016	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	<u>WAS906982</u>	<u>HUMBER WWTP UPGRADES</u>													
0		2 CHLORINE FACILITY UPGRADE	01/01/2006	12/31/2017	1,732	0	0	0	0	1,732	0	0	0	0	0
0		5 FLOOD PROTECTION	01/01/2016	12/31/2016	300	0	0	0	0	300	0	0	0	0	0
0		6 NEW SUBSTATION	01/01/2006	12/31/2017	793	0	0	0	0	793	0	0	0	0	0
0		7 ELECTRICAL CONDITION ASSESSMENT RECOMMENDATI	01/01/2006	12/31/2019	1,168	0	0	0	0	1,168	0	0	0	0	0
0		8 NEW GROUNDSKEEPING BUILDING	01/01/2009	12/31/2016	227	0	0	0	0	227	0	0	0	0	0
0		29 ADMIN BUILDING EXPANSION	01/01/2010	12/31/2022	250	0	0	0	0	250	0	0	0	0	0
0		52 HVAC UPGRADES	01/01/2013	12/31/2019	4,684	0	0	0	0	4,684	0	0	0	0	0
0		75 HYDRAULIC ASSESSMENT	01/01/2016	12/31/2016	200	0	0	0	0	200	0	0	0	0	0
0		81 BLOWER REPLACEMENT	01/01/2016	12/31/2024	250	0	0	0	0	250	0	0	0	0	0
0		86 BUILDING UPGRADES ENGINEERING	01/01/2006	12/31/2017	60	0	0	0	0	60	0	0	0	0	0
0		90 ELEC CONDITION ASSESSMENT RECOMMENDATIONS-20	01/01/2016	12/31/2021	-318	0	0	0	0	-318	0	0	0	0	0
0		91 ADMIN BUILDING EXPANSION - ENGINEERING-2016 SC	01/01/2016	12/31/2022	50	0	0	0	0	50	0	0	0	0	0
0		92 BUILDING UPGRADES ENGINEERING-2016 SC	01/01/2016	12/31/2017	-51	0	0	0	0	-51	0	0	0	0	0
0		93 NEW GROUNDSKEEPING BUILDING-2016 SC	01/01/2016	12/31/2016	-227	0	0	0	0	-227	0	0	0	0	0
0		94 CHLORINE FACILITY UPGRADE-2016 SC	01/01/2016	12/31/2017	-793	0	0	0	0	-793	0	0	0	0	0
0		95 REPLACEMENT OF WASTE GAS BURNERS	01/01/2016	12/31/2018	6,200	0	0	0	0	6,200	0	0	0	0	0
0		96 HYDRAULIC ASSESSMENT-2016 SC	01/01/2016	12/31/2016	-200	0	0	0	0	-200	0	0	0	0	0
0		98 HVAC UPGRADES-2016 SC	01/01/2016	12/31/2019	-3,740	0	0	0	0	-3,740	0	0	0	0	0
0		99 WET WEATHER FLOW	01/01/2016	12/31/2019	400	0	0	0	0	400	0	0	0	0	0
0		100 FIELD OFFICE	01/01/2016	12/31/2016	375	0	0	0	0	375	0	0	0	0	0
		Project Sub-total:			11,360	0	0	0	0	11,360	0	0	0	0	0
0	<u>WAS906994</u>	<u>HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING</u>													
0		1 HIGHLAND CREEK WWTP - BMP IMPLEMENTATION	01/01/2012	12/31/2023	3,100	0	0	249	0	2,851	0	0	0	0	0
0		3 WAS THICKENING AND DEWATERING CONSTR	01/01/2010	12/31/2016	2,245	0	0	181	0	2,064	0	0	0	0	0
0		15 HIGHLAND CREEK WWTP - BMP IMPLEMENTATION-2016 S	01/01/2016	12/31/2020	-2,975	0	0	-239	0	-2,736	0	0	0	0	0
0		16 WAS THICKENING - CONSTR-2016 SC	01/01/2016	12/31/2017	-1,245	0	0	-100	0	-1,145	0	0	0	0	0
		Project Sub-total:			1,125	0	0	91	0	1,034	0	0	0	0	0
0	<u>WAS907038</u>	<u>Land Acquisition for Source Water Protect</u>													
0		14 TRCA - SCARBOROUGH WATERFRONT TRAIL EA	01/01/2016	12/31/2016	1,605	0	0	129	0	1,476	0	0	0	0	0
0		19 TRCA - CRITICAL EROSION SITES-2016 SC	01/01/2016	12/31/2016	7,000	0	0	563	0	6,437	0	0	0	0	0
		Project Sub-total:			8,605	0	0	692	0	7,913	0	0	0	0	0
0	<u>WAS907097</u>	<u>ASHBRIDGES BAY WWTP - BUILDING SERVICES & SITE DEI</u>													
0		7 CONTROLLED SUBSTANCE IDENTIFICATION AND ABATEM	01/01/2007	12/31/2016	100	0	0	0	0	100	0	0	0	0	0

(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail

Wastewater Program

Sub-Project Summary

Project/Financing				2016	Financing										
Priority	Project	Project Name	Start Date	Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0	WAS907100	ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING													
0	25	PELLETIZER TRUCK LOADING FACILITY UPGRADES	01/01/2014	12/31/2018	725	0	0	0	0	725	0	0	0	0	0
0	40	PELLETIZER TRUCK LOADING FACILITY UPGRADES-2016	01/01/2016	12/31/2019	-625	0	0	0	0	-625	0	0	0	0	0
0	43	WASTE ACTIVATED SLUDGE UPGRADE - ENG-2016 SC	01/01/2016	12/31/2023	37	0	0	3	0	34	0	0	0	0	0
0	44	DIGESTERS 9-12 REFURBISH-2016 SC	01/01/2016	12/31/2021	2,400	0	0	193	0	2,207	0	0	0	0	0
		Project Sub-total:			6,400	0	0	474	0	5,926	0	0	0	0	0
0	WAS907101	ASHBRIDGES BAY WWTP - O&M UPGRADES													
0	5	BOILER #4 DESIGN	01/01/2010	12/31/2016	57	0	0	0	0	57	0	0	0	0	0
0	6	MESI UPGRADES	01/01/2012	12/31/2017	3,100	0	0	0	0	3,100	0	0	0	0	0
0	7	MISC MECH REHAB	01/01/2010	12/31/2017	8,401	0	0	0	0	8,401	0	0	0	0	0
0	29	MISC MECH REHAB-2016 SC	01/01/2016	12/31/2018	-1,901	0	0	0	0	-1,901	0	0	0	0	0
0	30	MESI UPGRADES-2016 SC	01/01/2016	12/31/2019	-202	0	0	0	0	-202	0	0	0	0	0
0	31	BOILER #4 DESIGN-2016 SC	01/01/2016	12/31/2018	-37	0	0	0	0	-37	0	0	0	0	0
		Project Sub-total:			9,418	0	0	0	0	9,418	0	0	0	0	0
0	WAS907102	ASHBRIDGES BAY WWTP - ODOUR CONTROL													
0	6	BIOFILTERS UPGRADE	01/01/2012	12/31/2018	11,542	0	0	929	0	10,613	0	0	0	0	0
0	13	D BUILDING TREATMENT & BIOFILTER	01/01/2009	12/31/2016	1,145	0	0	92	0	1,053	0	0	0	0	0
0	36	BIOFILTERS UPGRADE & REPLACEMENT-2016 SC	01/01/2016	12/31/2017	-2,478	0	0	-200	0	-2,278	0	0	0	0	0
0	37	D BUILDING TREATMENT & BIOFILTER-2016 SC	01/01/2016	12/31/2017	-1,045	0	0	-84	0	-961	0	0	0	0	0
		Project Sub-total:			9,164	0	0	737	0	8,427	0	0	0	0	0
0	WAS907104	HUMBER WWTP - LIQUID TREATMENT & HANDLING													
0	2	SECONDARY TREATMENT UPGRADES	01/01/2009	12/31/2023	6,134	0	0	494	0	5,640	0	0	0	0	0
0	19	SECONDARY TREATMENT UPGRADES - SOUTH - CONS	01/01/2015	12/31/2021	20,000	0	0	1,610	0	18,390	0	0	0	0	0
0	22	SECONDARY TREATMENT UPGRADES SOUTH CONS-2016	01/01/2016	12/31/2021	-15,000	0	0	-1,207	0	-13,793	0	0	0	0	0
0	23	SECONDARY TREATMENT UPGRADES - SOUTH - ENG-2016	01/01/2016	12/31/2023	-1,551	0	0	-125	0	-1,426	0	0	0	0	0
		Project Sub-total:			9,583	0	0	772	0	8,811	0	0	0	0	0
0	WAS907105	HUMBER WWTP - O&M UPGRADES													
0	1	GAS COMPRESSOR SYSTEM UPGRADES	01/01/2008	12/31/2017	7,184	0	0	0	0	7,184	0	0	0	0	0
0	29	GAS COMPRESSOR SYSTEM UPGRADES-2016 SC	01/01/2016	12/31/2017	779	0	0	0	0	779	0	0	0	0	0
0	30	LIQUID STREAM UPGRADES-2016 SC	01/01/2016	12/31/2017	50	0	0	4	0	46	0	0	0	0	0
		Project Sub-total:			8,013	0	0	4	0	8,009	0	0	0	0	0
0	WAS907106	HUMBER WWTP - ODOUR CONTROL													
0	1	ODOUR CONTROL IMPLEMENTATION - PHASE 1	01/01/2013	12/31/2017	13,508	0	0	1,087	0	12,421	0	0	0	0	0

(Phase 2) 11-Wastewater Program

Sub-Project Category: 01,02,03,04,05,06,07

Type: B Sub-Project Status: S2

Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO

Appendix 5: 2016 Recommended Capital Budget with Financing Detail

Wastewater Program

Sub-Project Summary

Project/Financing Priority Project	Project Name	Start Date	Completion Date	2016	Financing										
				Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable	
0	<u>WAS907106 HUMBER WWTP - ODOUR CONTROL</u>														
0	12 ODOUR CONTROL IMPLEMENTATION - PHASE 1 - 2016 SC	01/01/2016	12/31/2016	-1,758	0	0	-141	0	-1,617	0	0	0	0	0	0
	Project Sub-total:			11,750	0	0	946	0	10,804	0	0	0	0	0	0
0	<u>WAS907224 SEWAGE PUMPING STATION UPGRADES</u>														
0	1 SPS UPGRADES	01/01/2011	12/31/2016	3,729	0	0	300	0	3,429	0	0	0	0	0	0
0	2 SCOTT STREET PS UPGRADES	01/01/2010	12/31/2016	64	0	0	5	0	59	0	0	0	0	0	0
0	4 SUNNYSIDE AND MARYPORT SPS UPGRADES	01/01/2012	12/31/2017	1,479	0	0	0	0	1,479	0	0	0	0	0	0
0	18 SPS UPGRADES - GROUP 6 & 7	01/01/2016	12/31/2024	190	0	0	15	0	175	0	0	0	0	0	0
0	27 SCOTT ST PS -2016 SC	01/01/2016	12/31/2016	-62	0	0	-5	0	-57	0	0	0	0	0	0
0	28 SPS UPGRADES-2016 SC	01/01/2016	12/31/2017	-449	0	0	-36	0	-413	0	0	0	0	0	0
	Project Sub-total:			4,951	0	0	279	0	4,672	0	0	0	0	0	0
0	<u>WAS907559 DON & WATERFRONT TRUNK CSO</u>														
0	1 DON & WATERFRONT TRUNK/CSO PKG 1 - DESIGN	01/01/2013	12/31/2024	12,601	0	0	1,014	0	11,587	0	0	0	0	0	0
0	13 Don&Waterfront Trunk/CSO Design PH1-2016 SC	01/01/2016	12/31/2024	-2,915	0	0	-235	0	-2,680	0	0	0	0	0	0
	Project Sub-total:			9,686	0	0	779	0	8,907	0	0	0	0	0	0
0	<u>WAS907700 NORTH TORONTO WTP UPGRADES</u>														
0	2 NTPP-ELECTRICAL UPGRADES	01/01/2012	12/31/2018	752	0	0	0	0	752	0	0	0	0	0	0
0	9 NTPP - ELECTRICAL UPGRADES - ECAR-2016 SC	01/01/2016	12/31/2019	-545	0	0	0	0	-545	0	0	0	0	0	0
	Project Sub-total:			207	0	0	0	0	207	0	0	0	0	0	0
0	<u>WAS908143 Georgetown South City Infrastructure Upgrades</u>														
0	6 GEORGETOWN SOUTH CITY INFRA UPGRADES - FUTURE	01/01/2016	12/31/2019	5,680	0	0	0	0	5,680	0	0	0	0	0	0
	Project Sub-total:			5,680	0	0	0	0	5,680	0	0	0	0	0	0
0	<u>WASWP003 EMERY CREEK POND</u>														
0	1 EMERY CREEK POND	01/01/2005	12/31/2016	4,910	0	0	395	0	4,515	0	0	0	0	0	0
0	14 EMERY CREEK POND-2016 SC	01/01/2016	12/31/2018	6,307	0	0	508	0	5,799	0	0	0	0	0	0
	Project Sub-total:			11,217	0	0	903	0	10,314	0	0	0	0	0	0
0	<u>WASWP050 EQUIPMENT REPLACEMENT & REHABILITATION</u>														
0	117 REHAB OF SOUTH PRIMARY CLARIFIERS	01/01/2005	12/31/2016	188	0	0	0	0	188	0	0	0	0	0	0
0	129 EQUIPMENT REPLACEMENT-2016 SC	01/01/2016	12/31/2020	-3,900	0	0	0	0	-3,900	0	0	0	0	0	0
0	130 REHAB OF SOUTH PRIMARY CLARIFIERS-2016 SC	01/01/2016	12/31/2017	-158	0	0	0	0	-158	0	0	0	0	0	0
0	131 MTI CHAMBER UPGRADES AND PCS-2016 SC	01/01/2016	12/31/2018	118	0	0	0	0	118	0	0	0	0	0	0

(Phase 2) 11-Wastewater Program Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



CITY OF TORONTO
Appendix 5: 2016 Recommended Capital Budget with Financing Detail
Wastewater Program
Sub-Project Summary

Project/Financing		Start Date	Completion Date	2016 Cash Flow	Financing								
Priority	Project Name				Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt
0	WASWP050 EQUIPMENT REPLACEMENT & REHABILITATION												
1	78 North Primaries Pumping Equipment	01/01/2012	12/31/2020	4,670	0	0	0	0	4,670	0	0	0	0
	Project Sub-total:			918	0	0	0	0	918	0	0	0	0
Program Total:				496,882	0	0	18,456	0	478,426	0	0	0	0

Status Code Description
 S2 S2 Prior Year (With 2016 and/or Future Year Cashflow)
 S3 S3 Prior Year - Change of Scope 2016 and/or Future Year Cost(Cashflow)
 S4 S4 New - Stand-Alone Project (Current Year Only)
 S5 S5 New (On-going or Phased Projects)

Category Code Description
 01 Health and Safety C01
 02 Legislated C02
 03 State of Good Repair C03
 04 Service Improvement and Enhancement C04
 05 Growth Related C05
 06 Reserved Category 1 C06
 07 Reserved Category 2 C07

Appendix 6

Reserve / Reserve Fund Review

Table 11: Reserve / Reserve Fund – Program Specific (\$000s)

Table 1		Projected Balance as at Dec. 31, 2015*	Proposed Withdrawals										2016 - 2025 Total Contributions / Withdrawals
Reserve / Reserve Fund Name	Project / SubProject Name and Number		2016 Budget	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	
Water DC Reserve Fund XR2111 DC - Water (2009)	Beginning Balance	\$69,332	\$79,772	\$85,368	\$86,430	\$84,134	\$82,499	\$84,958	\$82,971	\$78,764	\$73,447	\$69,972	
	HORGAN W.T.P. EXPANSION		(\$36)										(\$36)
	WATER EFFICIENCY PROGRAM		(\$520)	(\$520)	(\$520)	(\$520)	(\$520)	(\$520)	(\$520)	(\$520)	(\$520)	(\$520)	(\$5,200)
	ENGINEERING STUDIES		(\$37)										(\$37)
	WATER STORAGE EXPANSION		(\$55)	(\$11)									(\$66)
	AVENUE ROAD TRUNK MAIN REPLACEMENT		(\$567)										(\$567)
	HORGAN TRUNK MAIN EXPANSION			(\$19)	(\$228)	(\$266)	(\$551)	(\$4,031)	(\$4,024)	(\$721)	(\$236)	(\$8)	(\$10,084)
	ISLAND W.T.P. R&R		(\$122)	(\$487)	(\$450)	(\$152)	(\$213)	(\$91)					(\$1,515)
	DOWNTOWN W/M ENHANCEMENT		(\$141)	(\$1,057)									(\$1,198)
	TRANSMISSION R&R												
	HARRIS W.T.P. R&R												
	RL CLARK W.T.P. R&R		(\$528)	(\$1,339)	(\$772)	(\$90)	(\$4)						(\$2,733)
	ISLAND W.T.P. R&R		(\$6)										(\$6)
	D2/D4 TRUNK WATERMAIN UPGRADES						(\$144)	(\$289)	(\$2,694)	(\$9,908)	(\$8,465)	(\$5,915)	(\$27,415)
	TRUNK WATERMAIN EXPANSION		(\$311)	(\$1,726)	(\$5,965)	(\$5,832)	(\$1,447)						(\$15,281)
	WATER SUSTAINABILITY PROGRAM		(\$650)	(\$1,199)	(\$262)	(\$310)	(\$109)	(\$1)					(\$2,531)
	BAYVIEW TRUNK WATERMAIN - PH2				(\$249)	(\$62)	(\$249)	(\$2,489)	(\$2,489)				(\$5,538)
	WT&S PLANTWIDE		(\$12)	(\$36)	(\$276)	(\$492)	(\$300)	(\$318)	(\$390)	(\$720)	(\$1,356)	(\$1,854)	(\$5,754)
	DISTRICT WATERMANS - NEW		(\$50)	(\$500)	(\$500)	(\$500)	(\$500)	(\$500)	(\$500)	(\$500)	(\$500)	(\$500)	(\$4,550)
	PW ENGINEERING		(\$477)	(\$999)	(\$648)	(\$411)	(\$450)	(\$375)	(\$350)	(\$225)	(\$225)	(\$225)	(\$4,385)
DIST W/M REPLACEMENT		(\$12,897)	(\$16,028)	(\$17,038)	(\$18,541)	(\$19,537)	(\$20,097)	(\$20,159)	(\$20,221)	(\$20,221)	(\$20,532)		
REGENT PARK CAPITAL CONTRIBUTION		(\$2,356)	(\$596)	(\$1,391)	(\$812)	(\$44)	(\$71)	(\$40)				(\$5,310)	
Total Proposed Withdrawals		(\$9,810)	(\$18,765)	(\$24,517)	(\$28,299)	(\$27,988)	(\$24,068)	(\$28,782)	(\$31,166)	(\$32,815)	(\$31,523)	(\$29,554)	(\$277,477)
Projected Contributions		\$20,250	\$24,361	\$25,579	\$26,003	\$26,353	\$26,527	\$26,795	\$26,959	\$27,498	\$28,048	\$28,048	\$266,171
TOTAL RESERVE FUND BALANCE AT YEAR-END		\$79,772	\$85,368	\$86,430	\$84,134	\$82,499	\$84,958	\$82,971	\$78,764	\$73,447	\$69,972	\$68,466	

* Based on 3rd Quarter Variance Report

Table 11: Reserve / Reserve Fund – Program Specific -Continued (\$000s)

Table 2		Projected Balance as at Dec. 31, 2014*	Proposed Withdrawals										2016 - 2025 Total Contributions / Withdrawals	
Reserve / Reserve Fund Name	Project / SubProject Name and Number		2016 Budget	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan		
Sanitary Sewer DC Reserve Fund	Beginning Balance	\$65,766	\$56,501	\$52,646	\$42,506	\$28,831	\$18,871	\$19,315	\$16,686	\$20,379	\$24,468	\$25,837		
	ASHBRIDGES BAY T.P. - III YR2004		(\$13)	(\$2)									(\$15)	
XR2026 DC - Sewer (2004)	ASHBRIDGES BAY T.P. YR2006		(\$24)	(\$100)									(\$124)	
	ASHBRIDGES BAY WWTP - EFFLUENT SYSTEM		(\$605)	(\$4,158)	(\$4,853)	(\$6,878)	(\$6,411)	(\$4,437)	(\$2,623)	(\$1,319)	(\$22)		(\$31,306)	
XR2112 DC - Sewer (2009)	ASHBRIDGES BAY WWTP - LIQUID TREATMENT & HANDLING		(\$3,094)	(\$2,054)	(\$550)	(\$7)	(\$37)	(\$370)	(\$744)	(\$777)	(\$2,036)	(\$2,776)	(\$12,445)	
	ASHBRIDGES BAY WWTP - ODOUR CONTROL		(\$737)	(\$663)	(\$10)								(\$1,410)	
	ASHBRIDGES BAY WWTP - SOLIDS & GAS HANDLING		(\$474)	(\$1,243)	(\$1,760)	(\$1,844)	(\$773)	(\$728)	(\$564)	(\$22)			(\$7,408)	
	ASHBRIDGES BAY WWTP REHAB		(\$360)	(\$539)	(\$543)	(\$502)	(\$4)						(\$1,948)	
	ASHBRIDGES BAY TP YR2005		(\$29)	(\$49)	(\$67)	(\$7)							(\$152)	
	DIST SEWER REHAB OPS YR2005													
	CSO		(\$779)	(\$571)	(\$430)	(\$1,268)	(\$2,120)	(\$2,120)	(\$2,426)	(\$4,249)	(\$3,020)	(\$4,462)	(\$21,445)	
	HIGHLAND CREEK T.P. - IV YR2004													
	HIGHLAND CREEK TP YR2005		(\$1)	(\$2)										(\$3)
	ODOUR CONTROL		(\$1,530)	(\$1,288)	(\$1,289)	(\$493)	(\$23)	(\$37)	(\$241)	(\$419)	(\$391)	(\$198)	(\$5,909)	
HIGHLAND CREEK WWTP - SOLIDS & GAS HANDLING		(\$91)	(\$304)	(\$386)	(\$1,610)	(\$1,904)	(\$1,753)	(\$20)	(\$20)			(\$6,088)		
HIGHLAND CREEK WWTP UPGRADES		(\$886)	(\$1,008)	(\$50)	(\$10)	(\$6)						(\$1,960)		
HUMBER T.P. - II YR2004		(\$1)											(\$1)	
HUMBER WWTP - LIQUID TREATMENT & HANDLING		(\$772)	(\$3,887)	(\$3,893)	(\$3,891)	(\$3,891)	(\$3,837)	(\$62)	(\$217)	(\$481)	(\$1,295)	(\$22,226)		
HUMBER WWTP - O&M UPGRADES		(\$4)	(\$25)										(\$29)	
HUMBER WWTP - ODOUR CONTROL		(\$946)	(\$272)										(\$1,218)	
LAWRENCE ALLAN REVITALIZATION PLAN		(\$7,913)	(\$6,765)	(\$13,272)	(\$5,506)								(\$33,456)	
NEW SEWER CONSTRUCTION		(\$56)	(\$1,761)	(\$2,286)	(\$4,786)	(\$286)	(\$4,286)	(\$4,286)	(\$4,286)	(\$4,286)	(\$4,286)	(\$4,286)	(\$30,605)	
SEWAGE PUMPING STATION UPGRADES		(\$279)	(\$100)	(\$270)	(\$542)	(\$681)	(\$830)	(\$664)	(\$332)	(\$246)	(\$4)	(\$4)	(\$3,948)	
SEWER ASSET PLANNING		(\$348)	(\$382)	(\$404)	(\$403)	(\$206)	(\$185)	(\$185)	(\$185)	(\$185)	(\$185)	(\$185)	(\$2,668)	
SEWER REPLACEMENT PROGRAM		(\$1,397)	(\$1,455)	(\$1,497)	(\$1,296)	(\$1,481)	(\$1,666)	(\$1,666)	(\$1,666)	(\$1,666)	(\$1,666)	(\$1,666)	(\$15,456)	
SEWER SYSTEM REHABILITATION		(\$1,879)	(\$2,794)	(\$1,717)	(\$496)	(\$155)	(\$2)							
TRUNK SEWER SYSTEM					(\$286)	(\$1,574)	(\$2,576)	(\$3,148)	(\$3,148)	(\$7,441)	(\$7,441)	(\$7,441)	(\$25,614)	
	Total Proposed Withdrawals	(\$22,493)	(\$22,218)	(\$29,422)	(\$33,277)	(\$29,825)	(\$19,552)	(\$22,827)	(\$16,629)	(\$16,640)	(\$19,774)	(\$22,313)	(\$232,477)	
	Projected Contributions	\$13,228	\$18,363	\$19,282	\$19,602	\$19,865	\$19,996	\$20,198	\$20,322	\$20,729	\$21,143	\$21,143	\$200,643	
TOTAL RESERVE FUND BALANCE AT YEAR-END		\$56,501	\$52,646	\$42,506	\$28,831	\$18,871	\$19,315	\$16,686	\$20,379	\$24,468	\$25,837	\$24,667		

* Based on 3rd Quarter Variance Report

Table 3		Projected Balance as at Dec. 31, 2015*	Proposed Withdrawals										2016 - 2025 Total Contributions / Withdrawals	
Reserve / Reserve Fund Name	Project / SubProject Name and Number		2016 Budget	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan		
Storm Water Management DC Reserve Fund	Beginning Balance	\$20,311	\$12,400	\$13,148	\$14,714	\$16,458	\$18,619	\$21,725	\$24,961	\$27,084	\$26,810	\$24,185		
	EMERY CREEK POND		(\$903)	(\$466)	(\$4)								(\$1,373)	
XR2113 DC - SWM (2009) XR2404 DC - SWM (2004)	LAND ACQUISITION FOR SOURCE WATER PROTECT		(\$692)	(\$648)	(\$641)	(\$761)	(\$761)	(\$761)	(\$761)	(\$881)	(\$881)	(\$881)	(\$7,668)	
	STREAM RESTORATION & EROSION CONTROL		(\$518)	(\$851)	(\$983)	(\$928)	(\$378)	(\$181)	(\$789)	(\$1,280)	(\$1,222)	(\$1,263)	(\$8,393)	
	SWM TRCA FUNDING		(\$336)	(\$344)	(\$353)	(\$361)	(\$371)	(\$380)	(\$389)	(\$399)	(\$409)	(\$419)	(\$3,761)	
	SWM END OF PIPE FACILITIES		(\$968)	(\$322)	(\$598)	(\$461)	(\$163)	(\$268)	(\$579)	(\$2,463)	(\$5,215)	(\$6,169)	(\$17,206)	
	WESTERN BEACHES RETROFIT		(\$74)	(\$263)	(\$249)	(\$85)	(\$1)	(\$7)					(\$679)	
	WET WEATHER FLOW MP		(\$660)	(\$684)	(\$657)	(\$543)	(\$555)	(\$555)	(\$781)	(\$781)	(\$539)	(\$539)	(\$6,294)	
		Total Proposed Withdrawals	(\$11,440)	(\$4,151)	(\$3,578)	(\$3,485)	(\$3,139)	(\$2,229)	(\$2,152)	(\$3,299)	(\$5,804)	(\$8,266)	(\$9,271)	(\$45,374)
		Projected Contributions	\$3,529	\$4,899	\$5,144	\$5,229	\$5,300	\$5,335	\$5,388	\$5,422	\$5,530	\$5,641	\$5,641	\$53,529
	TOTAL RESERVE FUND BALANCE AT YEAR-END		\$12,400	\$13,148	\$14,714	\$16,458	\$18,619	\$21,725	\$24,961	\$27,084	\$26,810	\$24,185	\$20,555	

* Based on 3rd Quarter Variance Report