

Solid Waste Management Services

2017 2026 Capital Budget and Plan Overview

Solid Waste Management Services (SWMS) is responsible for maintaining infrastructure valued at \$596 million excluding landfills, comprised of 7 transfer stations, 2 organics processing facilities, 5 collection yards and approximately of 1.6 million organics, recycling and waste bins. Landfills include the active Green Lane Landfill and 160 closed landfills.

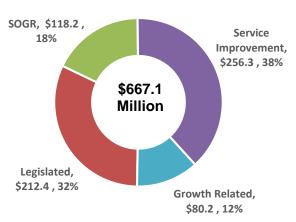
The 2017-2026 Capital Plan totaling \$667.1 million focuses on funding major diversion facilities to advance the City's goal of 70% Waste Diversion by investing in facilities and systems necessary to achieve this target as well as to continue Collection Yard and Transfer Station Asset Management and Perpetual Care of closed landfills. The 10-Year Capital Plan includes funding of \$138 million for the Council approved Long Term Waste Management Strategy (Waste Strategy), which includes recommendations to reduce, reuse, recycle and recover and dispose of the City's waste over the next 30 to 50 years.

CONTENTS

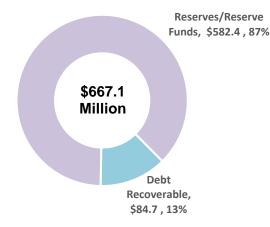
Overview	
1: 10-Year Capital Plan	<u>5</u>
2: Issues for Discussion	<u>18</u>
Appendices:	
1. 2016 Performance	<u>23</u>
2. 10-Year Capital Plan Summary	<u>24</u>
3. 2017 Capital Budget; 2018-2026 Capital Plan	3 <u>25</u>
2017 Cash Flow & Future Year Commitments	<u>26</u>
2017 Capital Projects with Finar Detail	ncing <u>27</u>
6. 2017 Reserve / Reserve Fund Review	28

Capital Spending and Financing

2017-2026 Capital Budget and Plan by Expenditures Category



2017-2026 Capital Budget and Plan by Funding Source



Where does the money go?

The 2017–2026 Capital Budget and Plan totalling \$667.096 million provides funding for:

- State of Good Repair (SOGR) projects including improving and maintaining transfer station, collection yard and diversion facilities capacity and effectiveness.
- Service Improvement projects that include the expansion of the Green Bin organics program to include apartments and condominiums, life-cycle replacement of all bins as well as building gas utilization facilities. The Waste Strategy is an integral part of Service Improvement projects.
- Legislated projects include ongoing development of the Green Lane Landfill and perpetual care of closed landfills, as well as strategic studies and investments in facilities and technologies as determined by the Waste Strategy.
- Growth related projects that are focused on building additional organics and waste processing capacity.at the Dufferin and Disco sites.

Where does the money come from?

The 10-Year Capital Plan is funded by two major sources:

- Capital financing of \$582.423 million or 87.3% will be provided primarily from the Waste Management Reserve Fund, with annual contributions to the reserve generated from user fee (rate) revenue in the Operating Budget.
- Recoverable debt funding of \$84.673 million comprises 12.7% of SWMS 10-year capital funding. The City initially funds this debt; SWMS then repays the debt servicing costs over its term through the collection of user fees in their Operating Budget.

State of Good Repair Backlog

The Solid Waste Management Program does not currently have a backlog of State of Good Repair (SOGR). The funding allocated in the 10-Year Capital Plan for SWMS for SOGR projects for 2017 and future years is deemed appropriate to maintain the assets in a state of good repair. The Program is undertaking an asset condition assessment and will report any changes to their SOGR backlog during future Capital Budget processes.

Key Issues & Priority Actions

- 70% Waste Diversion The SWMS' capital program is driven primarily by the City's objective to achieve the 70% waste diversion target.
 - ✓ SWMS has developed a Waste Strategy that will guide how the City's waste will be managed over the next 30 – 50 years.
 - √ The 2017 2026 Capital Budget and Plan includes funding of \$138 million for the Waste Strategy as approved by Council in July 2016.
- Long-Term Capital Funding To ensure generated rate revenue is adequate to support SWMS' 10-year capital needs as well as allow for the continued transition to a fully sustainable utility model, reducing the application of recoverable debt when appropriate.
 - The 2017 Operating Budget for SWMS includes a 3.9% rate increase with anticipated 3.9% annual rate increases over the next 5 years to ensure sufficient capital funding for future diversion programs and facilities that maximize the lifespan of the Green Lane landfill beyond 2029, as well as ensure effective solid waste management and disposal.
 - ✓ Approval of a multi-year planned rate increases will allow for sustainable long term capital planning based on predictable annual rate increases.

2017 Capital Budget Highlights

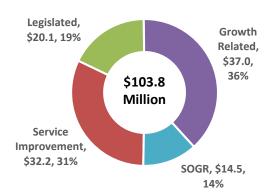
The 2017 Capital Budget for SWMS of \$103.777 million, excluding carry forward funding, will:

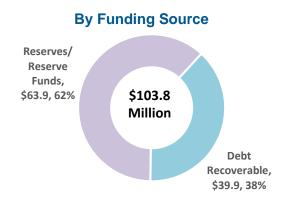
- Continue improving Diversion Systems with multi-unit organics & recycling containers and single family next generation Green Bin organics containers & waste / recycling containers (\$22.7 million);
- Continue building organics processing & waste capacity at the Dufferin & Disco facilities (\$37 million);
- Continue improving and maintaining Transfer Stations and Collection Yards and Diversion Facilities (\$12.5 million);
- Continue developing the Green Lane Landfill (\$10.2 million) with Gas Utilization projects (\$0.6 million) and providing perpetual care of closed landfills (\$9.9 million);
- Continue implementation of approved Waste Strategy options (\$5.4 million).





2017-2026 Capital Budget by Project Category





toronto.ca/budget2017 Page 3

Council Approved Budget

City Council approved the following recommendations:

- City Council approve the 2017 Capital Budget for Solid Waste Management Services with a total project cost of \$27.719 million, and 2017 cash flow of \$105.451 million and future year commitments of \$185.188 million comprised of the following:
 - a) New Cash Flow Funds for:
 - 28 new / change in scope sub-projects with a 2017 total project cost of \$27.719 million that requires cash flow of \$(10.437) million in 2017 and future year cash flow commitments of \$35.186 million for 2018; \$9.186 million for 2019; \$(10.672) million for 2020; \$(0.870) million for 2021; \$(1.174) million for 2022; \$1.000 million for 2023; \$1.000 million for 2024; \$1.000 million for 2025; and \$3.500 million for 2026.
 - ii. 23 previously approved sub-projects with a 2017 cash flow of \$114.214 million; and future year cash flow commitments of \$48.939 million for 2018; \$38.259 million for 2019; \$28.694 million for 2020; \$13.450 million for 2021; \$15.175 million for 2022 and \$2.515 million for 2023.
 - b) 2016 approved cash flow for 8 previously approved sub-projects with carry forward funding from 2016 into 2017 of \$1.514 million and into 2018 of \$0.160 million.
- City Council approve the 2018 2026 Capital Plan for Solid Waste Management Services totalling \$378.131 million in project estimates, comprised of \$22.643 million for 2018; \$38.042 million for 2019; \$40.465 million for 2020; \$41.369 million for 2021; \$40.432 million for 2022; \$52.804 million for 2023; \$47.302 million for 2024; \$48.152 million for 2025 and \$46.922 million in 2026.
- 3. City Council consider the operating costs (savings) of \$0.266 million net in 2017; \$0.393 million net in 2018; \$(0.703) million net in 2019; \$0.109 million net in 2020; \$(0.061) million net in 2021; \$(0.065) million for 2022; \$(0.018) million for 2023; \$(0.072) million for 2024; and \$(0.075) million for 2025 resulting from the approval of the 2017 Capital Budget for inclusion in the 2017 and future year operating budgets.
- 4. City Council approve 10 new temporary capital positions for the delivery of 2017 capital projects and that the duration for each temporary position not exceed the life and funding of its respective projects / sub-projects.
- This report be considered concurrently with the report entitled 2017 Rate Supported Budgets Solid Waste Management Services and Recommended 2017 Waste Rates (November 15, 2016) from the Deputy City Manager and Chief Financial Officer and General Manager for Solid Waste Management Services.



Part 1:

10-Year Capital Plan

toronto.ca/budget2017 Page 5

Challenges and Opportunities

Challenges:

- Ensuring adequate processing capacity for all materials.
- Maintaining facilities' State of Good Repair through ongoing asset management projects for transfer stations, collection yards and diversion facilities.
- Escalating contractor costs.
- Improving capital spend rate through analysis of capacity to spend and readiness to proceed.
- Uncertainty around future legislation in Ontario including the requirement to achieve revised criteria for multi-residential properties regarding provision of solid waste management services.

Opportunities:

- Investment in biogas technologies to allow for future revenue streams.
- Development of a comprehensive Asset Management Program.
- Completion of Green Bin 2.0 rollout.

Objectives and Priority Actions

Long Term Waste Management Strategy will begin with the planning and implementation of City Council approved recommendations, including:

- New reduction, reuse, and recycling programs, with a specific emphasis on: increasing waste diversion from multi-residential buildings and the Industrial, Commercial and Institutional (ICI) sector.
- Piloting mixed waste processing with organics recovery technology.
- Enhanced promotion, education and enforcement of existing programs.

Major ongoing and future committed investments include:

- Dufferin SSO Facility Expansion
- Green Bin 2.0 Rollout
- Transfer Station Asset Management
- Green Lane (Development and Perpetual Care)
- Strategic IT Initiatives

toronto.ca/budget2017

Figure 1a 10-Year Capital Plan 2017 Capital Budget and 2018 - 2021 Capital Plan

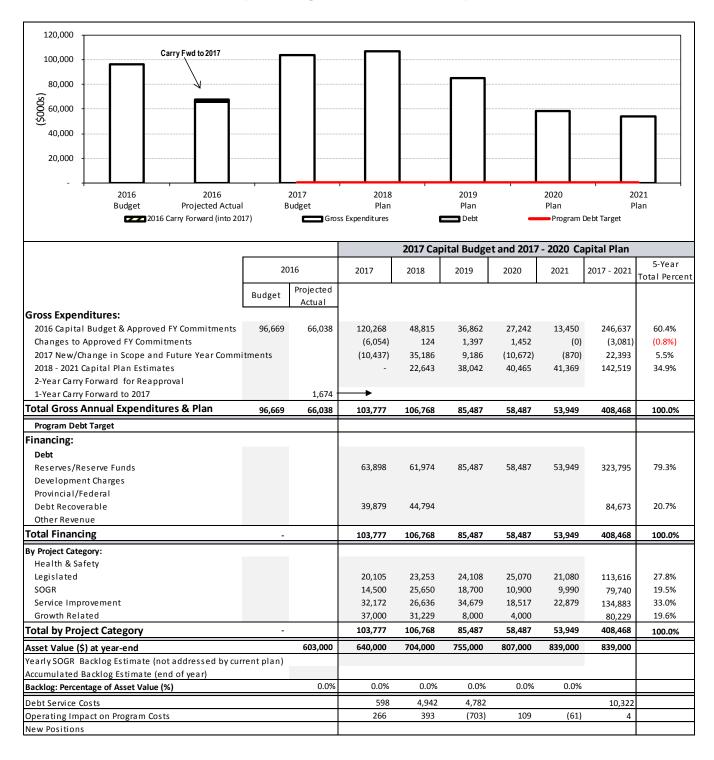
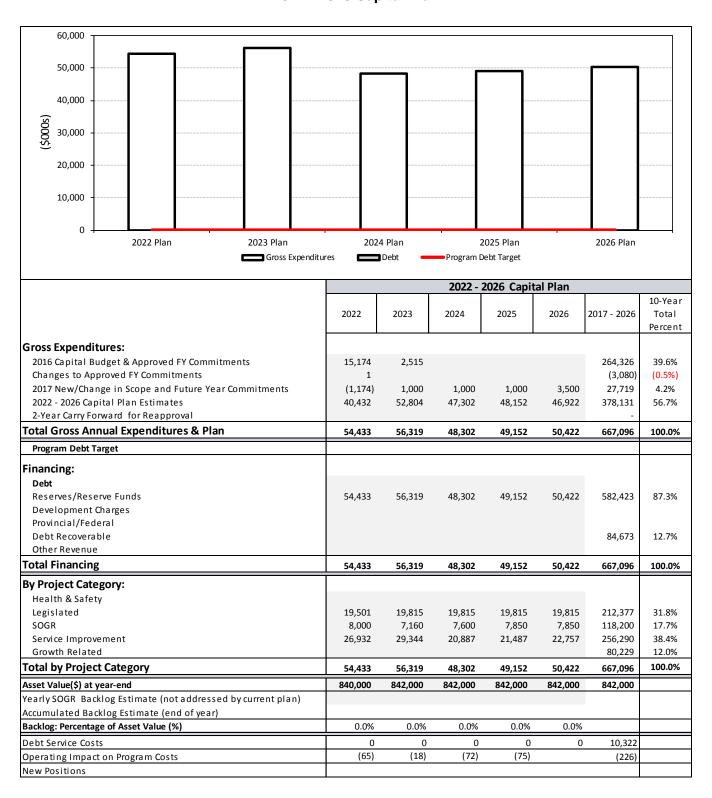


Table 1b 10-Year Capital Plan 2022 - 2026 Capital Plan

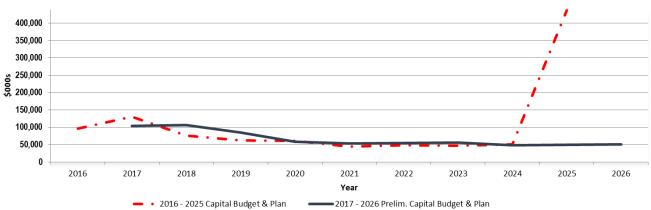


Key Changes to the 2017 - 2025 Approved Capital Plan

The 2017 Capital Budget and the 2018 – 2026 Capital Plan reflects a decrease of \$388.581 million in capital funding from the 2016 - 2025 Approved Capital Plan.

The table and chart below provide a breakdown of the \$388.581 million or 36.8% decrease in the Capital Program on an annual basis from 2016 to 2026.

Chart 1
Changes to the 2016 - 2025 Approved Capital Plan (In \$000s)



(\$000s)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
2016 - 2025 Capital Budget & Plan	96,669	130,772	76,535	61,958	60,579	44,614	48,783	47,011	50,501	438,255	
2017 - 2026 Capital Budget & Plan		103,777	106,768	85,487	58,487	53,949	54,433	56,319	48,302	49,152	50,422
Change %		(20.6%)	39.5%	38.0%	(3.5%)	20.9%	11.6%	19.8%	(4.4%)	(88.8%)	
Change \$		(26,995)	30,233	23,529	(2,092)	9,335	5,650	9,308	(2,199)	(389,103)	

10-Year Total 1,055,677 667,096 (36.8%) (388,581)

As made evident in the chart above, the \$388.581 million decrease in the Capital Program reflects changes approved by Council regarding the implementation of the Waste Strategy and associated annual cash flow funding estimates. As a result, \$500 million in funding to implement the Waste Strategy (including a \$404.6 million provisional estimate) that were included in the 2016 – 2025 Plan have been replaced with \$138.3 million in capital funding in defined Waste Strategy costs.

As reflected in Table 2 on the following page, changes to the 2016 – 2025 Approved Capital Plan, specifically the \$342.334 million decrease in capital funding over the nine common years of the Capital Plans (2016 – 2025) arise from the reprioritization of Solid Waste Management Services' capital projects based on the following factors:

- A requirement to invest in Transfer Station Asset Management in the short term to ensure facilities are maintained in a state of good repair.
- Additional cost for the Dufferin organics processing facility as well as a revised project schedule.
- On-going revision to the estimates for the Waste Strategy with the majority of funding being moved beyond the year 2026.

A summary of project changes for the years 2016 to 2024 totalling \$342.334 million are provided below:

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

\$000s	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2017 - 2025 Total
2016 - 2025 Capital Budget & Plan	96,669	130,772	76,535	61,958	60,579	44,614	48,783	47,011	50,501	438,255		959,008
2017 - 2026 Capital Budget & Plan	-	103,777	106,768	85,487	58,487	53,949	54,433	56,319	48,302	49,152	50,422	616,674
Capital Budget & Plan Changes (2017	- 2025)	(26,995)	30,233	23,529	(2,092)	9,335	5,650	9,308	(2,199)	(389,103)		(342,334)

	Total Project Cost	2017	2018	2019	2020	2021	2022	2023	2024	2025	2017 - 2025	2026	Revised Total Project Cost
Previously Approved													
Transfer Stn Asset Mgmt		(2,102)	2,098	3,145	3,995	5,000	1,935	1,095	(955)	2,150	16,361	6,150	
Diversion Facilities Asset Mgmt		(1,000)	(1,500)	(700)							(3,200)	1,500	
Collection Yard Asset Mgmt												200	
Diversion Systems		2,900	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,900	3,600	
Landfill Development		(1,501)					1				(1,500)	14,815	
Perpetual Care of Landfills					(64)	(165)	(3,272)	(3,731)	(3,731)	(3,731)	(14,694)	5,000	
Dufferin SSRM Facility	3,077	(50)	(50)								(100)		2,977
Dufferin SSO Facility	74,943	(5,000)	5,000										74,943
Disco SSO Facility	87,506												87,506
Biogas Utilization	11,182			240	900	3,570					4,710		15,892
Landfill Gas Utilization	19,645												19,645
Long Term Waste Management Stra	497,505	(2,615)	(2,864)	(1,543)	(2,808)	1,801	8,160	10,944	1,487	(388,522)	(375,960)	17,657	139,202
SWM IT Application Initiatives	10,061	(970)	(1,001)	3,632	844						2,505		12,566
IT Corporate Initiatives	11,266	(2,738)	299	1,569	1,713						843		12,109
Engineering Planning Studies	15,000	(1,500)	(700)								(2,200)	1,500	14,300
Total Previously Approved		(14,576)	2,282	7,343	5,580	11,206	7,824	9,308	(2,199)	(389,103)	(362,335)	50,422	379,140
Change in Scope													
Transfer Stn Asset Mgmt		2,436	2,055	7,000							11,491		
Diversion Systems -SSO Kit Contain.		100									100		
Diversion Facilities Asset Mgmt		2,000	2,750	700							5,450		
Perpetual Care of Landfills		(66)	(325)	856							465		
Landfill Gas Utilization		262	5,120	4,078	(9,460)								
Landfill Development		(5,887)	(3,920)	(1,476)	(2,212)	(1,870)	(2,174)				(17,539)		
Dufferin SSO Facility		(6,006)	6,220	(214)									
Disco SSO Facility		(4,405)	4,405										
Long Term Waste Management Stra	tegy												
Biogas Utilization		(2,587)	2,945	(2,758)							(2,400)		(2,400)
IT Corporate Initiatives		(266)									(266)		(266)
Engineering Planning Studies		1,500	700								2,200		2,200
Total Change in Scope		(12,919)	19,950	8,186	(11,672)	(1,870)	(2,174)				(499)		(466)
New		, , , ,	,			, , ,	, , ,				, ,		, , ,
Dufferin Waste Facility		500	8.000	8.000	4.000						20,500		20.500
Total New		500	8,000	8,000	4,000						20,380		20,500
Total Changes		(26,995)	30,232	23,529	(2,092)	9,336	5,650	9,308	(2,199)	(389,103)	-	50,422	399,174

Significant Capital Project Changes in Solid Waste Management Services:

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

- Transfer Station Asset Management: The overall project cost has increased by \$16.4 million over the period 2017 to 2025 due to increased requirements to maintain the SOGR (State of Good Repair) of transfer station facilities particularly at Dufferin and Bermondsey. This increase will fund repair work for various projects such as roofing, paving, drainage systems, sprinkler systems and repairs to tipping floors.
- Diversion Systems: The increase of \$10.9 million over the period 2017 to 2025 is primarily driven by the Replacement Residential Bins project. A POA was approved for the contract to add additional funds in 2014. The added service has enhanced customer service and operational efficiencies. Additional funds are required due to an increase in the overall demand from residents for bin-related service requests due to campaigns to upsize recycle bins or downsize garbage bins to increase participation in diversion programs.
- Long Term Waste Management Strategy: This project for the Waste Strategy is being decreased by \$376 million. Estimated cash flows per year for future diversion and waste management programs and facilities

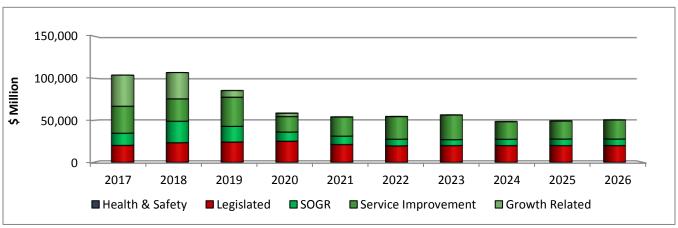
have been deferred and extended from the period 2016 to 2025 to now encompass the period 2017 to 2026 and beyond. The 10-Year Plan now includes \$138 million to begin the implementation phase of the strategy with possible facility requirements starting in 2027. Cost estimates reflect the July 2016 Council approval of the Waste Strategy.

New project totalling \$20.5 million added to the 2017 – 2026 Approved Capital Plan:

• Dufferin Waste Facility: This project is to fund the design, contract administration, and construction of a new staff facility at the Dufferin Waste Management Facility (DWMF) at 75 Vanley Crescent. An assessment of staff facility needs at the DWMF was completed in 2015 by a consultant to address future staff facility needs and current deficiencies. The assessment recommended that a new staff facility be implemented to help staff further improve efficient and effective delivery of services within SWMS. The execution of this project will address existing and future staff facility needs at the DWMF and SWMS will be further aligned with the goals of the SWMS strategic plan: Motivated and Engaged Employees and Operation Excellence.

2017 - 2026 Capital Plan





As illustrated in the chart above, the 10-Year Capital Plan for SWMS of \$667.1 million provides 38.4% for Service Improvement projects as priorities and Legislative mandated projects representing 31.8%. The remaining funding is comprised of 17.7% funding for State of Good Repair (SOGR) projects with Growth Related projects representing 12% over the 10-year period.

- Legislated projects include on-going landfill projects at the Green Lane landfill and the perpetual care of closed landfill sites.
- Funding is dedicated to State of Good Repair projects for Transfer Stations, Collection Yards and Diversion
 Facilities and is relatively constant over the 10-year plan with more emphasis on the short term to complete
 required repairs.
- Service Improvement projects comprise all bin purchases, gas utilization projects, IT projects and waste diversion programs and facilities resulting from an approved Waste Strategy.
- The Growth Related projects are major organics (SSO) processing facilities at Dufferin and Disco including a new staff facilities at the Dufferin Waste site.

The following table provides details by project category within the 2017 – 2026 Capital Budget and Plan for SWMS:

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

	Total App'd Cash Flows to Date*	2017 Budget	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2017 - 2026 Total	Total Project Cost
Legislated													
Perpetual Care of Landfills	*	9,876	8,100	9,000	8,000	8,000	5,000	5,000	5,000	5,000	5,000	67,976	*
Landfill Development	*	10,229	15,153	15,108	17,070	13,080	14,501	14,815	14,815	14,815	14,815	144,401	*
Sub-Total		20,105	23,253	24,108	25,070	21,080	19,501	19,815	19,815	19,815	19,815	212,377	
State of Good Repair													
Transfer Stn Asset Mgmt	*	12,300	22,700	17,000	9,200	8,290	6,300	5,460	5,900	6,150	6,150	99,450	*
Collection Yard Asset Mgmt	*	200	200	200	200	200	200	200	200	200	200	2,000	*
Diversion Facilities Asset Mgmt	*	2,000	2,750	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	16,750	*
Sub-Total		14,500	25,650	18,700	10,900	9,990	8,000	7,160	7,600	7,850	7,850	118,200	
Service Improvements													
Diversion Systems	*	22,670	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,600	57,470	*
Green Lane: Landfill Gas Utilization	19,645	462	5,150	13,538	-							19,150	19,645
Biogas Utilization	11,182	188	3,435	1,442	900	3,570						9,535	13,492
Dufferin SSRM Facility	3,077	-	-	-	-								2,977
Engineering Planning Studies	15,000	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	15,000	16,500
SWM IT Application Initiatives	10,061	964	2,226	4,066	964	108	372					8,700	12,566
IT Corporate Initiatives	11,266	1,003	3,289	1,776	2,061							8,129	11,843
Long Term Waste Mgmt Strategy	502,407	5,385	7,136	8,457	9,192	13,801	21,160	23,944	15,487	16,087	17,657	138,306	144,104
Sub-Total Sub-Total	572,638	32,172	26,636	34,679	18,517	22,879	26,932	29,344	20,887	21,487	22,757	256,290	221,127
Growth Related													
Dufferin SSO Facility	74,943	36,500	18,824	-	-							55,324	74,943
Disco SSO Facility	87,506	-	4,405	-	-							4,405	87,506
Dufferin Waste Facility	n/a	500	8,000	8,000	4,000							20,500	20,500
Sub-Total	162,449	37,000	31,229	8,000	4,000							80,229	182,949
Total Expenditures by Category (excluding carry forward)	735,088	103,777	106,768	85,487	58,487	53,949	54,433	56,319	48,302	49,152	50,422	667,096	404,077

2017 - 2026 Capital Projects

The 10-Year Capital Plan for SWMS is primarily comprised of Growth Related and Service Improvement projects for facilities; SOGR and Legislated projects for facility and landfill development and on-going asset management. Dufferin organics facility expansion / renovation and implementation of the Waste Strategy have been included in the 10-Year Capital Plan to progress toward achieving the waste diversion target of 70%.

Growth Related

- Growth Related projects account for \$80.229 million or 12% of the total 10-Year Capital Plan.
 - Dufferin Organics Facility (\$55.324 million) Construction of this facility that began in 2012 and will increase organics processing capacity from 25,000 to approximately 55,000 tonnes per year to expand the receiving area and to install a system to treat wastewater before discharge to the sanitary sewer.

Service Improvements

- Service Improvement projects account for \$256.290 million or 38.4% of the total 10-Year Capital Plan.
 - Diversion Systems (\$57.470 million) Funding is provided for implementing and replacing garbage, recycling, and organics containers for single family residential and multi-residential buildings as well as recycling upgrades for multi-residential buildings.
 - Landfill Gas Utilization and Biogas Utilization (\$28.685 million) –The Landfill Gas project with cash flows that total \$19.15 million over the 10-Year plan is located at Green Lane; the Biogas project (\$9.5 million) will address requirements at the Dufferin/Disco organics processing facilities. The project funding will provide infrastructure whereby gas produced by decomposition of waste will be converted to heat and electricity.
 - Waste Strategy (\$138.306 million) This project has a total project cost of approximately \$698 million with most cash flow funding planned beyond the last year of the 10-Year Capital Plan period to 2046. Funding is for professional technical services to assist with the starting implementing study results, securing any Provincially mandated environmental approvals and permits, Request for Proposal (RFP) and construction service efforts required for a vendor procurement process.

- > SWM IT Application Initiatives (\$8.7 million) Funding is provided in order to implement various technology solutions in SWMS, including transfer station efficiencies, asset management, RFID/GPS systems, revenue forecasting, eService delivery performance measurement, contract management and business process improvements.
- > IT Corporate Initiatives (\$8.129 million) This project is primarily comprised of the Work Management System which is the multi-year project to procure and implement a common new Work Management System that will be utilized by Toronto Water, Transportation Services, Parks Forestry & Recreation and SWMS.

Legislated

- Legislated projects include cash flow funding of \$212.377 or 31.8% of the total 10-Year Capital Plan funding.
 - ➢ Green Lane Landfill Cell Development, Systems & Acquisition (\$144.401 million) The 10-Year Capital Plan provides annual funding for cell development at the Green Lane Landfill site including new waste cell excavation and construction, landfill systems and buffer land acquisition. Landfill Systems projects include leachate and gas control systems as well as final cover/storm control/site cervices and engineering and monitoring capability.
 - ➤ Perpetual Care (\$67.976 million) Capital works necessary for the ongoing maintenance of closed environmentally sound landfill sites after primary operations have ended. Cash flow funding estimates allow for an average of \$8.7 million annually for ongoing control system requirements.

State of Good Repair (SOGR)

- SOGR projects account for \$118.200 million or 17.7% of the total 10-Year Capital Plan.
 - ➤ Transfer Station, Collection Yard & Diversion Facility Asset Management (\$12.5 million) Projects that provide funding to build various improvements to these facilities that are required to meet health and safety, operational and environmental requirements.

2017 Capital Budget and Future Year Commitments

Included as a sub-set of the 10-Year Capital Plan is the 2017 Capital Budget and Future Year Commitments, that consists of 2017 and future year cash flow for projects previously approved by Council; adjustments (Scope Change) to those previously approved projects; as well as new projects that collectively require Council approval to begin, continue or complete capital work.

- Approval of the 2017 Capital Budget of \$103.777 million will result in the future year funding commitments of \$84.125 million in 2018, \$47.445 million in 2019, \$18.022 million in 2020, \$12.580 million in 2021 and \$23 million from 2022 to 2026 for a total of \$288.965 million.
- Table 3a below lists the 2017 Capital Budget and Future Year Commitments for SWMS that will be approved through the 2017 Capital Budget:

Table 3a 2017 Cash Flow & Future Year Commitments (In \$000s)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Total 2017 Cash Flow & FY Commits
Expenditures:											
Previously Approved											
Diversion Systems	19,570										19,570
Perpetual Care of Landfills	9,942	8,425	8,144								26,511
Collection Yard Asset Mgmt	200										200
Landfill Development	16,316	17,603	24,544	27,242	13,450	15,175	2,515				116,845
Dufferin SSO Facility	47,506	7,604	214								55,324
Disco SSO Facility	4,405										4,405
Biogas Utilization	2,775	490	3,960								7,225
SWM IT Application Initiatives	96										96
IT Corporate Initiatives	1,440	2,852	1,397	1,452							7,141
Transfer Stn Asset Mamt	11,964	11,965									23,929
Subtotal	114,214	48,939	38,259	28,694	13,450	15,175	2,515	1	-	-	261,246
Change in Scope											
Diversion Systems	100										100
Perpetual Care of Landfills	(66)	(325)	856								465
Landfill Development	(5,625)	1,200	2,602	(11,672)	(1,870)	(2,174)					(17,539)
Dufferin SSO Facility	(11,006)	11,220	(214)	, , ,	, , ,	, , ,					-
Disco SSO Facility	(4,405)	4,405	, ,								-
Biogas Utilization	(2,587)	2,945	(2,758)								(2,400)
IT Corporate Initiatives	(437)		, , ,								(437)
Transfer Stn Asset Mamt	336	4,155	7,000								11,491
Diversion Facilities Asset Mamt	2,000	2,750	700								5,450
Engineering Planning Studies	1,500	700									2,200
Subtotal	(20,190)	27,050	8,186	(11,672)	(1,870)	(2,174)	_	_	_	_	(670)
New w/Future Year	(20)230)	27,000	0,100	(11)0/1/	(2)0707	(=)=7 .7					(0.0)
Diversion Systems	3,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	3,500	14,500
Long Term Waste Mgmt Strategy	5,385	7,136	1,000	1,000	1,000	1,000	1,000	1,000	1,000	3,300	12,521
Dufferin Waste Facility	500	7,130									500
SWM IT Application Initiatives	868										868
Subtotal	9,753	8,136	1,000	1,000	1,000	1,000	1,000	1,000	1,000	3,500	28,389
	3,733	0,130	1,000	1,000	1,000	1,000	1,000	1,000	1,000	3,300	20,303
Total Expenditure	103,777	84,125	47,445	18,022	12,580	14,001	3,515	1,000	1,000	3,500	288,965
Financing:											
Debt/CFC											-
Debt Recoverable	39,879	41,654									81,533
Other											-
Reserves/Res Funds	63,898	42,471	47,445	18,022	12,580	14,001	3,515	1,000	1,000	3,500	207,432
Development Charges											-
Provincial/Federal											-
Total Financing	103,777	84,125	47,445	18,022	12,580	14,001	3,515	1,000	1,000	3,500	288,965

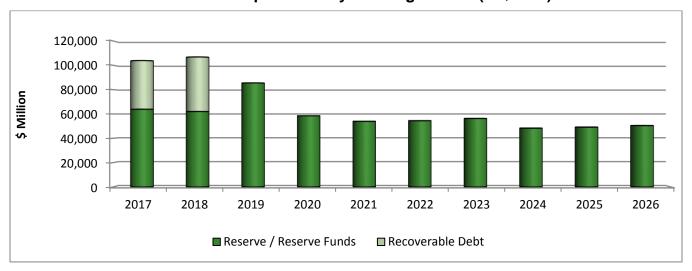


Chart 3
2017 – 2026 Capital Plan by Funding Source (In \$000s)

The 10-Year Capital Plan of \$667.096 million in cash flow funding will be financed by the following sources:

- Reserve and Reserve Funds constitute \$582.423 million or 87.3% of required funding over 10 years. For the 2017-2026 Capital Plan, all projects will be financed through reserve funds starting in 2019. This is predicated on a sustainable financing model that will support the reserve funds through revenue from volume-based user fees.
 - Following completion and Council approval of the Waste Strategy in July 2016, current rate modeling has determined the required SWMS rate increases that will be necessary to continue the transition towards a fully sustainable utility, reducing the application of recoverable debt where appropriate as is reflected in this Capital Plan.
- Recoverable Debt, which provides \$84.673 million or 12.7% of the 10-Year Capital Budget and Plan's funding, is dedicated primarily to the following major capital projects in 2017 and 2018 only:
 - Green Lane Landfill Development (\$26.323 million).
 - Dufferin & Disco SSO Facilities (\$41.810 million).
 - Waste Strategy (\$8.764 million).
 - Biogas Utilization (\$2.537)
 - SWMS IT Projects (\$5.239)
 - City debt guidelines are not issued for SWMS, as debt is recoverable from user fees with repayment of the debt servicing costs funded in SWMS annual Operating Budget.

State of Good Repair (SOGR) Backlog

- Solid Waste Management Services has not currently identified a backlog of State of Good Repair projects. At this time, the funding allocated in the 10-Year Capital Plan for SWMS for State of Good Repair projects is deemed appropriate to maintain the assets in a steady state of good repair.
- SWMS is currently in the process of a thorough review of the state of good repair of their capital assets.
 - Consultants have been hired to develop an Asset Management Framework together with an implementation plan to address business gaps. The implementation plan will generate asset management

toronto.ca/budget2017 Page 15

plans for different asset classes. The asset management plans will provide projected capital and maintenance spending budgets for SOGR based on asset conditions while ensuring specific levels of service.

10-Year Capital Plan: Net Operating Budget Impact

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

	2017 Bu	udget	2018	Plan	2019 P	lan	2020	Plan	2021 P	lan	2017 - 2	2021	2017 - 2	2026
Projects	\$000s	POS.	\$000s	POS.	\$000s	POS.	\$000s	POS.	\$000s	POS.	\$000s	POS.	\$000s	POS.
Previously Approved														
Biogas Utilization - Dufferin and Disco SSO					(1,007.0)		(58.0)		(61.0)		(1,126.0)	-	(1,406.0)	_
Disco SSO Processing Facilities	(44.0)		(44.0)								(88.0)	_	(88.0)	
IT Stakeholder-Cust Relation Mgmt-2014					74.0						74.0	_	74.0	
IT Transfer Station Efficiencies-2014	224.0		90.0								314.0	-	314.0	-
IT Electronic Doc & Records Mgmt -2015			52.0								52.0	-	52.0	-
IT Work Mgmt System Implementation	86.0		86.0		180.0						352.0	-	352.0	- 1
New Projects - 2017											-	_	-	
IT KPI Reporting and Measuring - Change			209.0								209.0	-	209.0	-
New Projects - Future Years											-	-	-	-
IT Business Systems Integration							117.0				117.0	-	117.0	-
IT SWMS eService Delivery											-	-	50.0	-
IT Time & Attendance Management Solution					50.0						50.0		50.0	
IT Learning Management Solution (LMS)							50.0				50.0		50.0	_
Total (Net)	266.0		393.0		(703.0)	-	109.0	-	(61.0)	-	4.0	-	(226.0)	-

The 10-Year Capital Plan will decrease future year Operating Budgets by a total of \$0.226 million net over the 2017 – 2026 period, as shown in the table above.

This is mainly comprised of operating impacts from the following projects once completed:

- Biogas Utilization The City's organics processing facilities at the Dufferin Facility and Disco Road transfer station generate combustible biogas through anaerobic digestion. The biogas can be similarly utilized as a source of renewable energy (electricity or renewable natural gas) to provide an economic benefit to the City.
 - ➤ The sale of the renewable energy product will achieve a favourable return on the initial capital investment of \$13.8 million and will generate a revenue stream over a 20 year period. By 2026, the estimated incremental net operating revenue is \$1.406 million.
- Various Information Technology projects for SWMS which will address issues such as key performance indicators reporting and monitoring, business system integration, document management and e-service delivery. By 2026, the estimated incremental net operating cost is estimated to be \$1.268 million.

These future operating impacts will be reviewed each year as part of the annual Operating Budget process.

Table 6 Capital Project Delivery: New Temporary Positions

				Project	Delivery	Salary	y and Be	enefits \$	Amour	nt(\$00	Os)
	CAPTOR Project	Position	# of		End Date						2022 -
Project Name	Number	Title	Positions	Start Date	(m/d/yr)	2017	2018	2019	2020	2021	2026
2nd Generation Green Bin Implementation	SOL000065-110	Chief Booth Attendant	4.0	01/01/2016	12/31/2017	(243.6)					
SWMS Information Model	SOL907919-23	Systems Integrator	2.0	06/09/2014	03/01/2017	(167.7)					
Stakeholder-Customer Relationship Mgmt	SOL907919-27	Project Lead	1.0	09/08/2017	04/12/2019	37.0	37.0	(74.1)		1	1
Time & Attendance Management Solution (TAMS)	SOL907956-6	Sr. Systems Integrator	1.0	05/01/2017	12/31/2018	92.9	23.2	(116.1)			
Work Management System (WMS) Implementation	SOL907956-8	Project Lead	2.0	05/01/2013	12/31/2018			(208.5)		i	
Waste Strategy	SOL907632	TBD	10.0	01/01/2017		1,158.9					
Total			20.0			877.5	60.3	(398.7)	-	-	-

Approval of the 2017 – 2026 Capital Budget and Plan will result in a requirement for 20 new temporary capital project delivery positions to implement the following projects:

- SSO Multi-Residential Container Implementation Implementation of organics collection in apartments commenced in 2009. The program was to be rolled out over a period of years. The plan included a requirement for 9.5 temporary capital positions to deliver the capital project for organic Multi-Residential Container Implementation. Temporary Chief Booth Attendants were required for bin distribution activities. Originally, after implementation, there is to be a corresponding operating cost reduction of \$0.478 million in 2016. However, four temporary staff are now projected to be required until 2017.
- SWMS and Corporate IT Initiatives Various technology projects such as the SWMS Information Model, Stakeholder-Customer Relationship Management, Time and Attendance Management and the Work Management System will require 10 temporary staff including System Integrators and Project Leads from 2016 through 2018.
- Long Term Waste Management Strategy (LTWMS) Implementation includes five initiatives in 2017 at a total cost of \$1.159 million. This cost is recoverable from capital. The Five initiatives proposed are as follows:
 - 1. Increased Promotion and Education to enhance current waste programs and support the implementation of the Strategy.
 - 2. Implementation of Waste Strategy programs that support reduction and reuse of materials, supporting increased diversion in multi-residential buildings and supporting partnerships to incentivize diversion.
 - 3. Testing technology and plan, build design of Mixed Waste Processing facility with Organics Recovery.
 - 4. Planning and implementation of enhanced services for ICI customers, and research and development of programs to divert construction, renovation and demolition waste at transfer stations.
 - 5. A new unit within SWMS that advances innovative ideas and solutions, promoting resource conservation and supporting the goal of a circular economy.

It is recommended that Council approve these new 10 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 2:

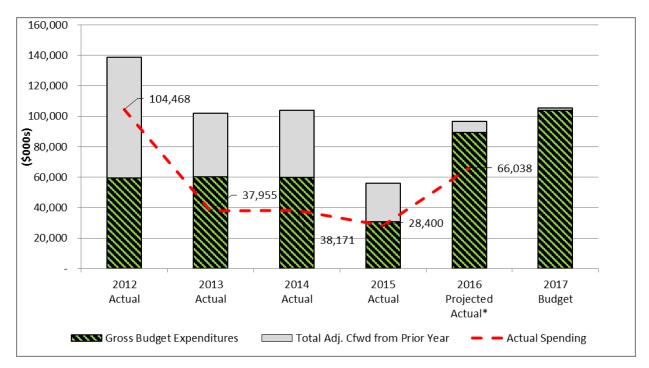
Issues for Discussion

toronto.ca/budget2017 Page 18

Issues Impacting the 2017 Capital Budget

Program Spending Capacity and Readiness to Proceed with Capital Projects

- City Council, at the meeting of July 12, 2016 considered the report EX16.37 2017 Budget Process Budget Directions and Schedule and directed staff to:
 - Submit their 2017 2026 Capital Budget and Plans requiring that annual cash flow funding estimates be examined to more realistically match cash flow spending to project activities and timing, especially in the first 5 years of the Capital Plan's timeframe.
- The chart below shows the spending trend of the total capital program for SWMS since 2012. The budget bars are split between new annual cash flows and funding carried forward from prior years.



- This chart illustrates that spending gains are anticipated in 2016 based on cash flow adjustments approved as part of the 2016 Budget process; with those adjustments approved in order to address under spending experienced from 2013 to 2015.
- Further efforts to align budgeted cash flows with the Programs capacity to spend have been made as part of the 2017 Budget process, with these actions taken:
 - ✓ The 2017 Capital Budget includes \$22.8 million in 2017 cash flow funding deferrals into 2018 and future years based on a review of each capital project's readiness to proceed in 2017 and the capacity to spend in each capital program area. 2017 adjustments include:
 - Dufferin SSO Facility (\$11.0 million);
 - Disco SSO facility (\$4.4 million);
 - > IT Initiatives (\$3.7 million); and
 - Biogas Utilization (\$2.6 million).

- ✓ The 2017 Capital Budget and Plan also recommends \$185.2 million in future year cash flows commitments that will allow the Program to initiate multi-year capital work that will ultimately result in greater spending and delivery rates in future years.
- SWMS in consultation with the Financial Planning Division, will continue to monitor spending in 2017, report
 capital spending quarterly through the City's variance reports and report on any future adjustments as
 required, as part of the 2018 Budget process.

Issues Impacting the 10-Year Capital Plan

Achieving the 70% Division Target & the Long Term Waste Management Strategy

- The Solid Waste Management Services' capital program is driven primarily by the City's objective to achieve the 70% diversion target and it is therefore on that basis that the 2017 Capital Budget and 2018-2026 Capital Plan has been established.
- A significant change in the 10-Year Capital Budget and Plan as compared to the 10-Year Plan approved as part of the 2016 Budget process is that the 2016 2025 Capital Plan included a provisional estimate of \$404.6 million for funding to implement the Long Term Waste Management Strategy, which had not yet been considered by Council at the time of the 2016 Budget process.
- City Council, at its meeting of July 12, 2016 adopted report PW14.2 Final Long Term Waste Management Strategy, including recommended options and implementation plan, as presented in Attachment 1 to the report that identified \$143.916 million in required Operating and Capital funding from 2016 to 2026 along with \$560 million in additional capital funding requirements from 2027 to 2046.
- The link to the report and attachment are provided below:

Report

http://www.toronto.ca/legdocs/mmis/2016/pw/bgrd/backgroundfile-94037.pdf

Attachment 1

http://www.toronto.ca/legdocs/mmis/2016/pw/bgrd/backgroundfile-94038.pdf

- The 2017 2026 Capital Budget and Plan has been adjusted based on adoption of the LTWMS as follows:
 - Removal of the \$404.6 million provisional funding estimate to implement the Long Term Waste Management Strategy; and
 - ➤ The addition of \$138.3 million in capital funding from 2017 to 2026 for the Long Term Waste Management Strategy project.
- It is important to note that the Waste Strategy, as adopted in its entirety, is anticipated to divert an additional 200,000 tonnes of material by 2026 from all City serviced and non-City serviced sources (both residential and non-residential). Based on current projections, this will extend the life of Green Lane Landfill until approximately 2040.

Long-Term Capital Program Reserve Funding

The 2017-2026 Capital Plan for SWMS is 12.7% funded through recoverable debt. The City advances debt funding annually required for Solid Waste Managements' capital work and the Program repays the annual debt servicing costs (interest and principal) in the Program's Operating Budget funded by the volume based user fees collected.

- SWMS also utilizes the Waste Management Reserve Fund, which is maintained annually through contributions from SWMS' Operating Budget. The reserve fund then provides annual funding for the Program's capital requirements that are not funded through recoverable debt, this reserve fund also acts as a rate stabilization reserve. The projected 2016 year-end balance of the reserve fund is \$115.3 million.
- An analysis of SWMS capital needs was undertaken to determine annual capital reserve contribution requirements, funded from the SWMS Operating Budget to:
 - 1. Fund the SWMS 10-Year Capital Budget and Plan that requires \$667.1 million in total funded, excluding funds carried forward from 2016 into 2017.
 - 2. Begin to transition to a fully sustainable utility model, reducing the application of recoverable debt.
 - ➤ The level of recoverable debt funding on the 10-Year Plan of 12.7% is reduced from the 58.6% level of recoverable included in the 2016 2025 Approved capital Plan, reflecting a transition towards a full sustainable utility model;
 - > By 2019, the use of recoverable debt will be phased out of the 10-Year Plan.
 - 3. Provide adequate annual funding to invest in future capital needs beyond the ten year planning period, including three significant investments that total \$560 million, noted below:
 - ➤ Mixed Waste Processing Facility with Organics Recovery (\$310 million);
 - Near and Long Term Residual Waste Management (\$150 million); and
 - > Future Green Bin Organics Processing Capacity (\$100 million).

The analysis determined that an annual blended rate increase of 3.9% will be required over the next five years to allow for an adequate annual contribution to the reserve fund from the SWMS Operating Budget, ensuring the reserve funds can support the three objectives noted above while also maintaining a positive balance each year from 2017 to 2026.

toronto.ca/budget2017 Page 21



Appendices

toronto.ca/budget2017 Page 22

2016 Performance

2016 Key Accomplishments

In 2016, Solid Waste Management Services capital works supported moving towards 70% overall waste diversion by accomplishing the following:

- ✓ Waste Strategy progress which included Council approval of the Long Term Waste Management Strategy in July 2016;
- ✓ Major facility projects such as the Dufferin SSO Processing Facility, Green Lane Landfill cell development
 and Transfer Station Asset Management as well as all other projects budgeted for 2016 were fully underway
 as of the second quarter with the preliminary spending projection for year-end estimated to be 79.1% based
 on spending to August 2016.

2016 Financial Performance

2016 Budget Variance Analysis (In \$000's)

2016 Budget	As of Septem	ber 30, 2016	Projected Actu	als at Year-End	Unspent	: Balance
\$	\$	% Spent	\$	% Spent	\$ Unspent	% Unspent
96,669	26,125	27.0%	66,038	68.3%	30,631	31.7%

^{*} Based on 2016 3rd Quarter Capital Variance Report

For additional information regarding the 2016 Q3 capital variances and year-end projections, please refer to the attached link for the report entitled "Capital Variance Report for the Nine-Month Period Ended September 30, 2016" considered by City Council at its meeting on December 13, 2016.

http://app.toronto.ca/tmmis/viewAgendaltemHistory.do?item=2016.EX20.26

Impact of the 2016 Capital Variance on the 2017 Capital Budget

- As a result of the delays in the capital projects, as described in the 2016 Q2 Capital Variance Report, funding of \$1.674 million is being carried forward to the 2017 Capital Budget to continue the capital work. This amount will be subject to revision in the first quarter of 2017.
- A detailed review of the 2017 2026 Capital Budget and Plan has been conducted and the necessary adjustments has been made to the timing of cash flow funding of \$7.150 million for major capital projects for the Dufferin organics facility and Transfer Station Asset Management which are the major contributors to annual under expenditures. By deferring the cash flow funding to future years, the 2017 Capital Budget reflects readiness to proceed and will lead to a higher rate of spending.

2017 Capital Budget; 2018 to 2026 Capital Plan (\$000s)

		Prior Year						2017 -						2017 - 2026
Project	Project Cost	Carry Forward	2017	2018	2019	2020	2021	2017 -	2022	2023	2024	2025	2026	7017 - 2026 Total
Legislated:														
Perpetual Care of Landfills	*		9,876	8,100	9,000	8,000	8,000	42,976	5,000	5,000	5,000	5,000	5,000	67,976
Landfill Development	*		10,229	15,153	15,108	17,070	13,080	70,640	14,501	14,815	14,815	14,815	14,815	144,401
Sub-Total	-	-	20,105	23,253	24,108	25,070	21,080	113,616	19,501	19,815	19,815	19,815	19,815	212,377
State of Good Repair:														
Transfer Stn Asset Mgmt	*		12,300	22,700	17,000	9,200	8,290	69,490	6,300	5,460	5,900	6,150	6,150	99,450
Collection Yard Asset Mgmt	*		200	200	200	200	200	1,000	200	200	200	200	200	2,000
Diversion Facilities Asset Mgmt	*		2,000	2,750	1,500	1,500	1,500	9,250	1,500	1,500	1,500	1,500	1,500	16,750
Sub-Total	-	-	14,500	25,650	18,700	10,900	9,990	79,740	8,000	7,160	7,600	7,850	7,850	118,200
Service Improvements:														
Diversion Systems	*		22,670	3,900	3,900	3,900	3,900	38,270	3,900	3,900	3,900	3,900	3,600	57,470
Green Lane: Landfill Gas Utilization	19,645		462	5,150	13,538	-	-	19,150	-	-	-	-	-	19,150
Biogas Utilization	13,492		188	3,435	1,442	900	3,570	9,535	-	-	-	-	-	9,535
Dufferin SSRM Facility	2,977		-	-	-	-	-	-	-	-	-	-	-	-
Engineering Planning Studies	16,500		1,500	1,500	1,500	1,500	1,500	7,500	1,500	1,500	1,500	1,500	1,500	15,000
SWM IT Application Initiatives	12,566	384	964	2,226	4,066	964	108	8,712	372	-	-	-	-	9,084
IT Corporate Initiatives	11,843	1,290	1,003	3,289	1,776	2,061	-	9,419	-	-	-	-	-	9,419
Long Term Waste Mgmt Strategy	144,104		5,385	7,136	8,457	9,192	13,801	43,971	21,160	23,944	15,487	16,087	17,657	138,306
Sub-Total	221,127	1,674	32,172	26,636	34,679	18,517	22,879	136,557	26,932	29,344	20,887	21,487	22,757	257,964
Growth Related:														
Dufferin SSO Facility	74,943		36,500	18,824	-	-	-	55,324	-	-	-	-	-	55,324
Disco SSO Facility	87,506		-	4,405	-	-	-	4,405	-	-	-	-	-	4,405
Dufferin Waste Facility	20,500		500	8,000	8,000	4,000	-	20,500	-	-	-	-	-	20,500
Sub-Total	182,949	-	37,000	31,229	8,000	4,000	-	80,229	-	-	-	-	-	80,229
Total	404,077	1,674	103,777	106,768	85,487	58,487	53,949	410,142	54,433	56,319	48,302	49,152	50,422	668,770

2017 Capital Budget; 2018 to 2026 Capital Plan

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 3: 2017 Capital Budget; 2018 to 2026 Capital Plan

Sc	lid Wa	aste Management																							
							Curr	ent and Fu	ıture Year	Cash Flov	w Commitr	nents			Cu	rrent and F	uture Year	Cash Flo	ow Comr	nitments	Finance	d By			
<u>Su</u>		<u>oject No. Project Name</u> bProj No. Sub-project Name	Ward	Stat	Cat	2017	2018	2019	2020	2021	Total 2017-2021	Total 2022-2026	Total 2017-2026	Provincial Grants and	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current		Other?		Debt - Recoverab	- 1	Total
	_000065	<u> </u>	vvaiu	Otat	. Cat.	2017	2010	2010	2020	2021	2017-2021	2022 2020	2017-2020	Subsidies	Oubbidy	- Chargos				Other	Otherz	Debt		+	mancing
0		Replacement Waste Bins Single-Family	CW	S2	04	500	0	0	0	0	500	0	500	С) (0 0	0	500	ı	0 () (0	0	0	500
0	110	2nd Generation Green Bin Implementation	CW	S2	04	570	0	0	0	0	570	0	570	С)	0 0	0	570	ı	0 () (0	0	0	570
0	113	SSO In-Unit Kitchen Containers - Future Years	CW	S6	04	0	100	100	100	100	400	500	900	C)	0 0	0	900	ı	0 () (0	0	0	900
0	114	Replacement Waste Bins Single Family - Change	CW	S2	04	2,000	0	0	0	0	2,000	О	2,000	c)	0 0	0	2,000	ı	0 () (0	0	0	2,000
0	115	Replacement Waste Bins Single Family - Future Year	CW	S6	04	0	2,500	2,500	2,500	2,500	10,000	10,000	20,000	C)	0 0	0	20,000	ı	0 () (0	0	0	20,000
0	119	Replacement Waste Bins Single Family	CW	S5	04	2,500	1,000	1,000	1,000	1,000	6,500	7,500	14,000	С)	0 0	0	14,000	ı	0 () (0	0	0	14,000
0	120	2nd Generation Green Bin Replacement - Change	CW	S2	04	16,500	0	0	0	0	16,500	0	16,500	c)	0 0	0	16,500	ı	0 () (0	0	0	16,500
0	121	2nd Generation Green Bin Replacement - Future Year	CW	S6	04	0	300	300	300	300	1,200	1,200	2,400	C)	0 0	0	2,400	1	0 () (0	0	0	2,400
0	122	TCHC ORGANIC IMPLEMENTATION PROGRAM	CW	S4	04	500	0	0	0	0	500	0	500	C)	0 0	0	500	ı	0 () (0	0	0	500
0	123	SSO IN-UNIT KITCHEN CONTAINERS	CW	S3	04	100	0	0	0	0	100	0	100	С		0 0		100		0 (0	100
		Sub-total				22,670	3,900	3,900	3,900	3,900	38,270	19,200	57,470	0	1	0 0	0	57,470	1	0 ()	0	0	0	57,470
so	_906419	Perpetual Care of Landfills																					-		
0	9	Perpetual Care of Landfills Future Years	CW	S6	02	0	0	0	8,000	8,000	16,000	25,000	41,000	С)	0 0	0	41,000	ı	0 () (0	0	0	41,000
0	12	Perpetual Care of Landfills	CW	S2	02	9,942	8,425	8,144	0	0	26,511	0	26,511	C)	0 0	0	26,511		0 () (0	0	0	26,511
0	13	Perpetual Care of Landfills - Change	CW	S3	02	-66	-325	856	0	0	465	0	465	С)	0 0	0	465	i	0 () (0	0	0	465
		Sub-total				9,876	8,100	9,000	8,000	8,000	42,976	25,000	67,976	0		0 0	0	67,976	i	0 ()	0	0	0	67,976
so	_906580	Collection Yard Asset Management																							
0	46	Collection Yards Asset Management	CW	S2	03	200	0	0	0	0	200	0	200	С)	0 0	0	200	ı	0 () (0	0	0	200
0	49	Collection Yard Asset Management - Future Years	e CW	S6	03	0	200	200	200	200	800	1,000	1,800	C)	0 0	0	1,800	1	0 () (0	0	0	1,800
		Sub-total				200	200	200	200	200	1,000	1,000	2,000	0		0 0	0	2,000	l	0 ()	0	0	0	2,000
so	_907246	Green Lane Landfill Development																							
0	27	Landfill Gas Control System	CW	S2	02	4,276	2,346	2,483	5,661	2,804	17,570	4,906	22,476	С)	0 0	0	16,847		0 () (0	0 5,62	29	22,476
0	28	Leachate Control System	CW	S2	02	1,948	2,156	2,483	3,117	1,894	11,598	1,940	13,538	c)	0 0	0	10,049	ı	0 () (0	0 3,48	89	13,538
0	33	Buffer Land - Future Years	CW	S6	02	0	1,500	1,500	1,500	1,500	6,000	7,500	13,500	c)	0 0	0	12,225	i	0 () (0	0 1,27	75	13,500
0	35	Engineering and Monitoring Future Years	CW	S6	02	0	0	0	0	0	0	500	500	c)	0 0	0	500	ı	0 () (0	0	0	500

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 3: 2017 Capital Budget; 2018 to 2026 Capital Plan

					Curre	ent and Fu	ture Year	Cash Flo	w Commitn	nents			Cui	rent and Fu	ture Year	Cash Flo	w Commit	ments	Finance	Ву		
PrioritySub	ject No. Project Name Proj No. Sub-project Name	Ward S	Stat. Ca	2017	2018	2019	2020	2021	Total 2017-2021	Total 2022-2026	Total 2017-2026	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2		Debt - Recoverable t	Total Financing
SOL907246 0 36	Green Lane Landfill Development Cell Excavation & Base Construction - Future Years	CW	S6 02	0	0	0	0	0	0	31,940	31,940	C	0	0	0	31,940	0	(0 ()	0 0	31,940
0 38	Site Services/Final Cover/Storm Future Years	CW	S6 02	0	0	0	0	0	0	4,912	4,912	C	0	0	0	4,912	0	(0 ()	0 0	4,912
0 39	Leachate Control System - Future Years	CW	S6 02	0	0	0	0	0	0	5,848	5,848	С	0	0	0	5,848	0	(0 ()	0 0	5,848
0 40	Landfill Gas Control System - Future Years	CW	S6 02	0	0	0	0	0	0	7,545	7,545	С	0	0	0	7,545	0	(0 ()	0 0	7,545
0 42	Landfill Gas Utilization	CW	S2 04	200	30	9,460	9,460	0	19,150	0	19,150	С	0	0	0	18,954	0	(0 ()	0 196	19,150
0 44	Cell Excavation & Base Construction	CW	S2 02	8,024	11,000	7,998	6,926	6,727	40,675	8,382	49,057	C	0	0	0	32,887	0	(0 ()	0 16,170	49,057
0 45	Engineering & Monitoring	CW	S2 02	108	111	247	118	121	705	125	830	С	0	0	0	644	0	(0 ()	0 186	830
0 46	Site Services/Final Cover/Storm Control	CW	S2 02	1,760	1,960	1,873	1,960	1,904	9,457	2,337	11,794	С	0	0	0	8,632	0	(0 ()	0 3,162	11,794
0 52	Buffer Land	CW			0	0	0	0	1,500	0	1,500	C			0	225	0	(0 (0 1,275	1,500
0 53	Landfill Gas Utilization	CW		262	5,120	4,078	-9,460	0	0	0	0	C			0	-4,552	0		0 (0 4,552	0
0 54	Landfill Gas Control System	CW			-1,054	-1,016	-579	-505	-4,870	-576	-5,446	C			0	-3,091	0	(0 (0 -2,355	-5,446
0 55	Leachate Control System	CW	S3 02	-1,683	-1,681	-753	-589	-499	-5,205	-578	-5,783	С	0	0	0	-2,923	0	(0 ()	0 -2,860	-5,783
0 56	Site Services/Final Covers/Storm - Change	CW	S3 02	1,103	-905	-764	-568	-478	-1,612	-550	-2,162	C	0	0	0	-2,331	0	(0 ()	0 169	-2,162
0 57	Cell Excavation & Base Construction	CW	S3 02	-5,056	-310	1,122	-514	-413	-5,171	-495	-5,666	С	0	0	0	-1,104	0	(0 ()	0 -4,562	-5,666
0 58	Engineering and Monitoring Change	CW	S3 02		30	-65	38	25	-7	25	18	С			0	21	0		0 (0 -3	18
001.007000	Sub-total			10,691	20,303	28,646	17,070	13,080	89,790	73,761	163,551	0	0	0	0	137,228	0	-	0 ()	0 26,323	163,551
SOL907630 0 3	Dufferin SSO Facility Dufferin SSO Facility Expansion	CW	S2 05	47,506	7,604	214	0	0	55,324	0	55,324	С	0	0	0	16,747	0	(0 ()	0 38,577	55,324
0 5	Expansion of the Dufferin SSO processing facility	CW	S3 05	-11,006	11,220	-214	0	0	0	0	0	C	0	0	0	-149	0	(0 ()	0 149	0
	Sub-total			36,500	18,824	0	0	0	55,324	0	55,324	0	0	0	0	16,598	0	(0 ()	0 38,726	55,324
SOL907631	Disco SSO Facility																					
0 2	Site Remediation	CW	S2 05	4,405	0	0	0	0	4,405	0	4,405	С	0	0	0	1,321	0	(0 ()	0 3,084	4,405
0 7	Disco SSO Facility	CW	S3 05	-4,405	4,405	0	0	0	0	0	0	С	0	0	0	0	0	(0 ()	0 0	0
	Sub-total			0	4,405	0	0	0	4,405	0	4,405	0	0	0	0	1,321	0	(0 ()	0 3,084	4,405
SOL907632	Long Term Waste Management Strategy																					

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 3: 2017 Capital Budget; 2018 to 2026 Capital Plan

Sub- Project No. Project Name Ward Stat. Cat. 2017 2018 2019 2020 SOL907632 Long Term Waste Management Strategy 0 7 Reduce & Reuse, Multi-Residential and Incentives CW S6 04 0 0 1,257 1,257 0 8 Reduce & Reuse, Multi-Residential and Incentives CW S4 04 1,470 1,536 0 0 0 10 Drop off depots CW S6 04 0 0 245 980 0 11 Commissioners TS CW S4 04 100 100 0 0	0 3,00 480 1,70 0 20 0 2,80	1 .0.0.	Total 2017-2026 9,574 3,006 19,105 200 2,800	Provincial Grants and Subsidies Subsidies Subsidies Subsidies 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Reserves F	eserve	Capital from Current (Other 1 0 0 0	Other2 0 0	Reco	ebt - overable 0 2,104	Financing 9,574
0 7 Reduce & Reuse, Multi-Residential and Incentives CW S6 04 0 0 1,257 1,257 0 8 Reduce & Reuse, Multi-Residential and Incentives CW S4 04 1,470 1,536 0 0 0 10 Drop off depots CW S6 04 0 0 245 980	0 3,00 480 1,70 0 20 0 2,80	3,006 0 1,705 17,400 200 0 2,800 0	3,006 19,105 200	0 0	0 0 0 0 0	0	9,574 902 19,105	0 0	0	0	0	2,104	3,006
Incentives	0 3,00 480 1,70 0 20 0 2,80	3,006 0 1,705 17,400 200 0 2,800 0	3,006 19,105 200	0 0	0 0 0 0 0	0	902	0	0	0	0	2,104	3,006
Incentives	480 1,70 0 20 0 2,80	1,705 17,400 200 0 2,800 0	19,105 200	0	0 0	0	19,105	0					
	0 20	200 0	200	0	0 0				0	0	0	0	10.405
0 11 Commissioners TS CW S4 04 100 100 0 0	0 2,80	2,800 0				0	60	0					19,105
			2,800	0	0 0				0	0	0	140	200
0 12 Promotion and Education CW S4 04 1,220 1,580 0 0	2,980 7,94	7.940 6.650			0 0	0	840	0	0	0	0	1,960	2,800
0 13 Promotion and Education CW S6 04 0 0 2,480 2,480		,,,,,,	14,590	0	0 0	0	14,590	0	0	0	0	0	14,590
0 15 Commissioners TS CW S6 04 0 0 500 500	5,000 6,00	6,000 21,500	27,500	0	0 0	0	27,500	0	0	0	0	0	27,500
0 16 Mixed Waste Processing with Organics CW S4 04 2,120 3,370 0 0 Recovery&Test	0 5,49	5,490 0	5,490	0	0 0	0	1,647	0	0	0	0	3,843	5,490
0 17 Mixed Waste Processing with Organics CW S6 04 0 0 3,370 3,370 Recovery&Test	3,520 10,26	38,770	49,030	0	0 0	0	49,030	0	0	0	0	0	49,030
0 18 Enhanced services for ICI & const, reno & CW S4 04 55 180 0 0 demo	0 23	235 0	235	0	0 0	0	71	0	0	0	0	164	235
0 19 Enhanced services for ICI & const, reno & CW S6 04 0 0 235 235 demo	235 70	705 1,991	2,696	0	0 0	0	2,696	0	0	0	0	0	2,696
0 20 Unit for Research, Innovation and Circular CW S4 04 420 370 0 0 Economy	0 79	790 0	790	0	0 0	0	237	0	0	0	0	553	790
0 21 Unit for Research, Innovation and Circular CW S6 04 0 0 370 370 Economy	370 1,11	1,110 2,180	3,290	0	0 0	0	3,290	0	0	0	0	0	3,290
Sub-total 5,385 7,136 8,457 9,192	13,801 43,97	43,971 94,335	138,306	0	0 0	0 1	129,542	0	0	0	0	8,764	138,306
SOL907863 Biogas Utilization													
0 3 Construction of Biogas Utlization - Disco CW S2 04 2,675 0 0 0	0 2,67	2,675 0	2,675	0	0 0	0	802	0	0	0	0	1,873	2,675
0 6 Construction of Biogas Utilization - Dufferin CW S2 04 100 490 3,960 0	0 4,55	4,550 0	4,550	0	0 0	0	4,137	0	0	0	0	413	4,550
0 8 Biogas Utilization at Disco CW S3 04 -2,487 3,435 1,202 0	0 2,15	2,150 0	2,150	0	0 0	0	1,486	0	0	0	0	664	2,150
0 9 Biogas Utilization at Dufferin CW S3 04 -100 -490 -3,960 0	0 -4,55	-4,550 0	-4,550	0	0 0	0	-4,137	0	0	0	0	-413	-4,550
0 10 Biogas Utilization at Dufferin CW S6 04 0 0 240 900	3,570 4,71	4,710 0	4,710	0	0 0	0	4,710	0	0	0	0	0	4,710
Sub-total 188 3,435 1,442 900	3,570 9,53	9,535 0	9,535	0	0 0	0	6,998	0	0	0	0	2,537	9,535
SOL907919 SWM IT Application Initiatives													
0 4 RFID Integration CW S2 04 81 0 0 0	0 8	81 0	81	0	0 0	0	24	0	0	0	0	57	81
0 8 Business Systems Integration CW S6 04 0 0 107 120	0 22	227 0	227	0	0 0	0	227	0	0	0	0	0	227

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 3: 2017 Capital Budget; 2018 to 2026 Capital Plan

							Curre	ent and Fu	ture Year	Cash Flov	v Commitn	nents			Curi	rent and Fu	ıture Year	Cash Flo	w Commi	itments F	inanced	Ву		
Sub Pric		<u>ject No.</u> <u>Project Name</u> Proj No. Sub-project Name	Ward	Stat.	Cat.	2017	2018	2019	2020	2021	Total 2017-2021	Total 2022-2026	Total 2017-2026	Provincial Grants and Subsidies	Federal c	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Reco	ebt - overable	Total Financing
SOL	907919	SWM IT Application Initiatives																						
0	13	Asset Management Solution (AMS)	CW	S6	04	0	140	1,112	0	0	1,252	0	1,252	0	0	0	0	1,154	0	0	0	0	98	1,252
0	14	Mobile Assessment & Solution	CW	S6	04	0	117	564	207	0	888	0	888	0	0	0	0	806	0	0	0	0	82	888
0	19	KPI Reporting and Measuring - Future Years	s CW	S6	04	0	685	0	0	0	685	0	685	О	0	0	0	205	0	0	0	0	480	685
0	21	SWMS eService Delivery	CW	S6	04	0	0	0	0	108	108	372	480	0	0	0	0	480	0	0	0	0	0	480
0	22	Short Term Application Improvements	CW	S2	04	12	0	0	0	0	12	0	12	0	0	0	0	3	0	0	0	0	9	12
0	23	SWMS Information Model	CW	S2	04	24	0	0	0	0	24	0	24	О	0	0	0	7	0	0	0	0	17	24
0	24	Business Process Analysis & Improvement	CW	S2	04	20	0	0	0	0	20	0	20	0	0	0	0	6	0	0	0	0	14	20
0	26	Transfer Station Efficiencies	CW	S2	04	200	0	0	0	0	200	0	200	0	0	0	0	60	0	0	0	0	140	200
0	32	KPI Reporting and Measuring - Change	CW	S2	04	67	0	0	0	0	67	0	67	0	0	0	0	20	0	0	0	0	47	67
0	33	SWMS Information Model - Change	CW	S2	04	76	0	0	0	0	76	0	76	0	0	0	0	23	0	0	0	0	53	76
0	41	KPI Reporting and Measuring - Change	CW	S4	04	618	0	0	0	0	618	0	618	0	0	0	0	185	0	0	0	0	433	618
0	43	SHORT TERM APPLICATION IMPROVEMENTS	CW	S4	04	250	0	0	0	0	250	0	250	0	0	0	0	75	0	0	0	0	175	250
0	44	Transfer Station Efficiencies	CW	S6	04	0	1,000	1,000	300	0	2,300	0	2,300	o	0	0	0	1,600	0	0	0	0	700	2,300
0	45	Stakeholder-Customer Relationship - New Future Yrs	CW	S6	04	0	143	896	196	0	1,235	0	1,235	0	0	0	0	1,135	0	0	0	0	100	1,235
0	46	Contract Management (Contract Monitoring) - Change	CW	S6	04	0	141	387	141	0	669	0	669	o	0	0	0	570	0	0	0	0	99	669
		Sub-total				1,348	2,226	4,066	964	108	8,712	372	9,084	0	0	0	0	6,580	0	0	0	0	2,504	9,084
SOL	907956	IT Corporate Initiatives																						
0	5	Electronic Document & Records Mgmt Solution	CW	S2	04	70	308	0	0	0	378	0	378	0	0	0	0	113	0	0	0	0	265	378
0	6	Time & Attendance Management Solution (TAMS)	CW	S6	04	0	0	172	261	0	433	0	433	0	0	0	0	433	0	0	0	0	0	433
0	7	Learning Management Solution (LMS)	CW	S6	04	0	0	207	348	0	555	0	555	o	0	0	0	555	0	0	0	0	0	555
0	8	Work Management System (WMS) Implementation	CW	S2	04	2,000	1,596	1,397	1,452	0	6,445	0	6,445	0	0	0	0	3,928	0	0	0	0	2,517	6,445
0	9	Work Management System (WMS) Implementation Change	CW	S2	04	63	1,108	0	0	0	1,171	0	1,171	0	0	0	0	351	0	0	0	0	820	1,171
0	10	Electronic Document & Records Mgmt Solution Change	CW	S2	04	437	0	0	0	0	437	0	437	0	0	0	0	131	0	0	0	0	306	437
0	11	SWMS Electronic Document & Records Management	CW	S3	04	-437	0	0	0	0	-437	0	-437	0	0	0	0	-131	0	0	0	0	-306	-437

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 3: 2017 Capital Budget; 2018 to 2026 Capital Plan

				Curre	ent and Fu	ture Year	Cash Flo	w Commitn	nents			Cu	rrent and F	uture Year	Cash Flo	w Comm	itments l	inanced	Ву		
	j <u>ect No.</u> <u>Project Name</u> Proj No. Sub-project Name	Ward Stat. Cat.	2017	2018	2019	2020	2021	Total 2017-2021	Total 2022-2026	Total 2017-2026	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Rec	ebt - overable	Total Financing
SOL907956	IT Corporate Initiatives																				
0 13	SWMS Electronic Document & Records Management	CW S6 04	0	437	0	0	0	437	0	437	C) (0	0	131	C) (0	0	306	437
	Sub-total		2,133	3,449	1,776	2,061	0	9,419	0	9,419	0	(0	0	5,511	C) ((0	3,908	9,419
SOL907957	Transfer Station Asset Management																				
0 41	Transfer Station Asset Management	CW S2 03	11,964	11,965	0	0	0	23,929	0	23,929	C) (0	0	23,929	C) (0	0	0	23,929
0 42	Transfer Station Asset Management	CW S3 03	336	4,155	7,000	0	0	11,491	0	11,491	C) (0	0	11,491	C) (0	0	0	11,491
0 43	Transfer Station Asset Management	CW S6 03	0	6,580	10,000	9,200	8,290	34,070	29,960	64,030	C) (0	0	64,030	C) (0	0	0	64,030
	Sub-total		12,300	22,700	17,000	9,200	8,290	69,490	29,960	99,450	0	. (0	0	99,450	C) (0	0	99,450
SOL908082	<u>Diversion Facilities Asset Management</u>																				
0 4	Diversion Facilities Asset Management	CW S6 03	0	0	800	1,500	1,500	3,800	7,500	11,300	C) (0	0	11,300	C) (0	0	0	11,300
0 5	Diversion Facilities Aseet Management	CW S3 03	2,000	2,750	700	0	0	5,450	0	5,450	C) (0	0	5,450	C) (0	0	0	5,450
	Sub-total		2,000	2,750	1,500	1,500	1,500	9,250	7,500	16,750	0	. (0	0	16,750	C) ((0	0	16,750
SOL908171	Engineering Planning Studies																				
0 2	Engineering Planning Studies	CW S6 04	0	800	1,500	1,500	1,500	5,300	7,500	12,800	C) (0	0	12,800	C) (0	0	0	12,800
0 3	Engineering Planning Studies	CW S3 04	1,500	700	0	0	0	2,200	0	2,200	C) (0	0	2,200	C) (0	0	0	2,200
	Sub-total		1,500	1,500	1,500	1,500	1,500	7,500	7,500	15,000	0	(0	0	15,000	C) ((0	0	15,000
SOL908389	Dufferin Waste Facility																				
0 1	Dufferin Waste Facility Site Improvement	CW S4 05	500	0	0	0	0	500	0	500	C) (0	0	500	C) (0	0	0	500
0 2	Dufferin Waste Facility	CW S6 05	0	8,000	8,000	4,000	0	20,000	0	20,000	C) (0	0	20,000	C) (0	0	0	20,000
	Sub-total		500	8,000	8,000	4,000	0	20,500	0	20,500	0	(0	0	20,500	C) ((0	0	20,500
Total Pro	ogram Expenditure		105,291	106,928	85,487	58,487	53,949	410,142	258,628	668,770	0	(0	0	582,924	C) (. (0	85,846	668,770

May-12-2017 13:44:46

Page 6 of 6

Report 7C

Report Phase 5 - Program 17 Solid Waste Management Program Phase 5 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2,S5,S6 Part C Sub-Project Status S2,S3,S4

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 3: 2017 Capital Budget; 2018 to 2026 Capital Plan

Solid Waste Management

		Current and	Future Ye	ar Cash F	ow Comn	nitments ar	nd Estimate	s		Curren	t and Future Yea	r Cash Flow C	ommitme	nts and I	Estimates	Finance	d By	
<u>Sub-</u> <u>Project No.</u> <u>Project Name</u> Priority SubProj No. Sub-project Name Ward Stat.	at. 2017	2018	2019	2020	2021	Total 2017-2021	Total 2022-2026	Total 2017-2026	Provincial Grants and Subsidies	Federal De	evelopment Charges Rese	Reserve erves Funds	Capital from Current	Other 1	Other2	Rec	Oebt - overable	Total Financing
Financed By: Reserve Funds (Ind."XR" Ref.)	64,351	62,022	85,487	58,487	53,949	324,296	258,628	582,924	0	0	0	0 582,924	0	C	0	0	0	582,924
Debt - Recoverable	40,940	44,906	0	0	0	85,846	0	85,846	0	0	0	0 0	0	C	0	0	85,846	85,846
Total Program Financing	105,291	106,928	85,487	58,487	53,949	410,142	258,628	668,770	0	0	0	0 582,924	0	C	0	0	85,846	668,770

Status Code	Description
S2	S2 Prior Year (With 2017 and\or Future Year Cashflow)
S3	S3 Prior Year - Change of Scope 2017 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 2018 & 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

2017 Cash Flow and Future Year Commitments

Report Phase 5 - Program 17 Solid Waste Management Program Phase 5 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3,S4,S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 4: 2017 Cash Flow and Future Year Commitments

Sol	id Wa	ste Management																				
					Curi	ent and Fu	uture Year	Cash Flo	w Commitn	nents			Curre	nt and Fut	ture Year	Cash Flo	w Comm	nitments I	Financed	Ву		
Sub Pric		j <u>ect No.</u> <u>Project Name</u> Proj No. Sub-project Name	Ward Stat. Ca	at. 2017	2018	2019	2020	2021	Total 2017-2021	Total 2022-2026	Total 2017-2026	Provincial Grants and Subsidies	Federal De	velopment Charges F	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Red	Debt - coverable	Total Financing
	000065												-									
0	102	Replacement Waste Bins Single-Family	CW S2 0	4 500	0	0	0	0	500	0	500	(0	0	0	500	(D 0	0	0	С	500
0	110	2nd Generation Green Bin Implementation	CW S2 0	4 570	0	0	0	0	570	0	570	C	0	0	0	570	(D 0	0	0	0	570
0	114	Replacement Waste Bins Single Family - Change	CW S2 0		0		0	0	2,000	0		(0	0	2,000	(-	0		2,000
0	119	Replacement Waste Bins Single Family	CW S5 0		1,000		1,000	1,000	6,500	7,500	14,000	(0	0	14,000	(0		14,000
0	120	2nd Generation Green Bin Replacement - Change TCHC ORGANIC IMPLEMENTATION	CW S2 0		0	0	0	0	16,500 500	0				0	0	16,500 500	(0		
0	123	PROGRAM SSO IN-UNIT KITCHEN CONTAINERS	CW S3 0		0		0	0	100	0				0	0	100	(0		
		Sub-total		22,670	1,000	1,000	1,000	1,000	26,670	7,500	34,170	0	0	0	0	34,170	(0 0) 0	() (34,170
SOL	906419	Perpetual Care of Landfills																				
0		Perpetual Care of Landfills	CW S2 0.	2 9,942	8,425	8,144	0	0	26,511	0	26,511	C	0	0	0	26,511	(D 0) 0	0	0	26,511
0	13	Perpetual Care of Landfills - Change	CW S3 0:	2 -66	-325	856	0	0	465	0	465	(0	0	0	465	(0 0	0	0	0	465
		Sub-total		9,876	8,100	9,000	0	0	26,976	0	26,976	0	0	0	0	26,976	(0 0) 0	() (26,976
SOL	906580	Collection Yard Asset Management																				
0	46	Collection Yards Asset Management	CW S2 0	3 200	0	0	0	0	200	0	200	C	0	0	0	200	(0 0			0	
		Sub-total		200	0	0	0	0	200	0	200	0	0	0	0	200	(0 0) 0	() (200
SOL	907246	Green Lane Landfill Development																				
0	27	Landfill Gas Control System	CW S2 0	2 4,276	2,346	2,483	5,661	2,804	17,570	4,906	22,476	C	0	0	0	16,847	(D 0	0	0	5,629	22,476
0	28	Leachate Control System	CW S2 0	2 1,948	2,156	2,483	3,117	1,894	11,598	1,940	13,538	C	0	0	0	10,049	(D 0	0	0	3,489	13,538
0	42	Landfill Gas Utilization	CW S2 0	4 200	30	9,460	9,460	0	19,150	0		C	0	0	0	18,954	(D C	0	0	196	
0	44	Cell Excavation & Base Construction	CW S2 0:		11,000		6,926	6,727	40,675	8,382			-	0	0	32,887	(, ,		16,170	
0	45 46	Engineering & Monitoring Site Services/Final Cover/Storm Control	CW S2 0			247	118	121	705	125			, ,	0	0	644	(, ,	0		
0	46 52	Site Services/Final Cover/Storm Control Buffer Land	CW S2 0:				1,960	1,904	9,457 1,500	2,337	1,794			0	0	8,632 225	(3,162 1,275	
0	53	Landfill Gas Utilization	CW S3 0					0		0				0	0			0 0			4,552	
0	54	Landfill Gas Control System	CW S3 0				-579	-505						0	0		(-2,355	
				1	I					l	1											1

May-12-2017 13:47:23

Page 2 of 5

Report 7Ca

Report Phase 5 - Program 17 Solid Waste Management Program Phase 5 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3,S4,S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

CITY OF TORONTO

Gross Expenditures (\$000's)
Appendix 4: 2017 Cash Flow and Future Year Commitments

	January Control of the Control of th																						
						Curre	ent and Fu	ıture Year	Cash Flo	w Commitm	nents			Cui	rent and F	uture Year	Cash Flo	w Commi	tments F	inanced	Ву		
	roject No. Project Name ubProj No. Sub-project Name	Ward :	Stat.	Cat.	2017	2018	2019	2020	2021	Total 2017-2021	Total 2022-2026	Total 2017-2026	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Rec	Debt - coverable	Total Financing
SOL90724	6 Green Lane Landfill Development																						
0 55	Leachate Control System	CW	S3	02	-1,683	-1,681	-753	-589	-499	-5,205	-578	-5,783	С	0	0	0	-2,923	0	0	0	0	-2,860	-5,783
0 56	Site Services/Final Covers/Storm - Change	CW	S3	02	1,103	-905	-764	-568	-478	-1,612	-550	-2,162	С	0	0	0	-2,331	0	0	0	0	169	-2,162
0 57	Cell Excavation & Base Construction	CW	S3	02	-5,056	-310	1,122	-514	-413	-5,171	-495	-5,666	C	0	0	0	-1,104	0	0	0	0	-4,562	-5,666
0 58	Engineering and Monitoring Change	CW	S3	02	-35	30	-65	38	25	-7	25	18	C	0	0	0	21	0	0	0	0	-3	18
	Sub-total				10,691	18,803	27,146	15,570	11,580	83,790	15,516	99,306	0	0	0	0	74,258	0	0	0	0	25,048	99,306
SOL90763	Dufferin SSO Facility																						
0 3	Dufferin SSO Facility Expansion	CW	S2	05	47,506	7,604	214	0	0	55,324	0	55,324	С	0	0	0	16,747	0	0	0	0	38,577	55,324
0 5	Expansion of the Dufferin SSO processing facility	CW	S3	05	-11,006	11,220	-214	0	0	0	0	0	С	0	0	0	-149	0	0	0	0	149	0
	Sub-total				36,500	18,824	0	0	0	55,324	0	55,324	0	0	0	0	16,598	0	0	0	0	38,726	55,324
SOL90763	Disco SSO Facility																						
0 2	Site Remediation	CW	S2	05	4,405	0	0	0	0	4,405	0	4,405	С	0	0	0	1,321	0	0	0	0	3,084	4,405
0 7	Disco SSO Facility	CW	S3	05	-4,405	4,405	0	0	0	0	0	0	С	0	0	0	0	0	0	0	0	C	0
	Sub-total				0	4,405	0	0	0	4,405	0	4,405	0	0	0	0	1,321	0	0	0	0	3,084	4 4,405
SOL90763	Long Term Waste Management Strategy																						
0 8	Reduce & Reuse, Multi-Residential and Incentives	CW	S4	04	1,470	1,536	0	0	0	3,006	0	3,006	С	0	0	0	902	0	0	0	0	2,104	3,006
0 11	Commissioners TS	CW	S4	04	100	100	0	0	0	200	0	200	С	0	0	0	60	0	0	0	0	140	200
0 12	Promotion and Education	CW	S4	04	1,220	1,580	0	0	0	2,800	0	2,800	С	0	0	0	840	0	0	0	0	1,960	2,800
0 16	Mixed Waste Processing with Organics Recovery&Test	CW	S4	04	2,120	3,370	0	0	0	5,490	0	5,490	С	0	0	0	1,647	0	0	0	0	3,843	5,490
0 18	Enhanced services for ICI & const, reno & demo	CW	S4	04	55	180	0	0	0	235	0	235	c	0	0	0	71	0	0	0	0	164	235
0 20	Unit for Research, Innovation and Circular Economy	CW	S4	04	420	370	0	0	0	790	0	790	C	0	0	0	237	0	0	0	0	553	790
	Sub-total				5,385	7,136	0	0	0	12,521	0	12,521	0	0	0	0	3,757	0	0	0	0	8,764	12,521
SOL90786	Biogas Utilization																						
0 3	Construction of Biogas Utlization - Disco	CW	S2	04	2,675	0	0	0	0	2,675	0	2,675	С	0	0	0	802	0	0	0	0	1,873	2,675
0 6	Construction of Biogas Utilization - Dufferin	CW	S2	04	100	490	3,960	0	0	4,550	0	4,550	С	0	0	0	4,137	0	0	0	0	413	4,550
0 8	Biogas Utilization at Disco	CW	S3	04	-2,487	3,435	1,202	0	0	2,150	0	2,150	C	0	0	0	1,486	0	0	0	0	664	2,150

May-12-2017 13:47:23

Page 3 of 5

Report 7Ca

Report Phase 5 - Program 17 Solid Waste Management Program Phase 5 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3,S4,S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

CITY OF TORONTO

Gross Expenditures (\$000's)
Appendix 4: 2017 Cash Flow and Future Year Commitments

						Curre	ent and F	uture Year	Cash Flo	w Commitn	nents			Cu	rrent and Fu	uture Year	Cash Flo	w Commit	ments F	inanced	Ву		
	Project No. Project Name SubProj No. Sub-project Name	Ward	Stat.	Cat.	2017	2018	2019	2020	2021	Total 2017-2021	Total 2022-2026	Total 2017-2026	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Rec	Debt - overable	Total Financing
SOL9078	63 Biogas Utilization																						
0 9	Biogas Utilization at Dufferin	CW	S3	04	-100	-490	-3,960	0	0	-4,550	0	-4,550	0	C	0	0	-4,137	0	0	0	0	-413	-4,550
	Sub-total				188	3,435	1,202	0	0	4,825	0	4,825	0	C	0	0	2,288	0	0	0	0	2,537	4,825
SOL9079	19 SWM IT Application Initiatives																						
0 4	RFID Integration	CW	S2	04	81	0	0	0	0	81	0	81	О	(0	0	24	0	0	0	0	57	81
0 22	Short Term Application Improvements	CW	S2	04	12	0	0	0	0	12	0	12	o	(0	0	3	0	0	0	0	9	12
0 23	SWMS Information Model	CW	S2	04	24	0	0	0	0	24	0	24	O	(0	0	7	0	0	0	0	17	24
0 24	Business Process Analysis & Improvemen	t CW	S2	04	20	0	0	0	0	20	0	20	О	(0	0	6	0	0	0	0	14	20
0 26	Transfer Station Efficiencies	CW	S2	04	200	0	0	0	0	200	0	200	o	(0	0	60	0	0	0	0	140	200
0 32	KPI Reporting and Measuring - Change	CW	S2	04	67	0	0	0	0	67	0	67	O	(0	0	20	0	0	0	0	47	67
0 33	SWMS Information Model - Change	CW	S2	04	76	0	0	0	0	76	0	76	0	(0	0	23	0	0	0	0	53	76
0 41	KPI Reporting and Measuring - Change	CW	S4	04	618	0	0	0	0	618	0	618	0	(0	0	185	0	0	0	0	433	618
0 43	SHORT TERM APPLICATION IMPROVEMENTS	CW	S4	04	250	0	0	0		250	0	250	0			0	75	0	0		0		
	Sub-total				1,348	0	0	0	0	1,348	0	1,348	0	(0	0	403	0	0	0	0	945	1,348
SOL9079	56 IT Corporate Initiatives																						
0 5	Electronic Document & Records Mgmt Solution	CW	S2	04	70	308	0	0	0	378	0	378	O	(0	0	113	0	0	0	0	265	378
8 0	Work Management System (WMS) Implementation	CW	S2	04	2,000	1,596	1,397	1,452	0	6,445	0	6,445	O	(0	0	3,928	0	0	0	0	2,517	6,445
0 9	Work Management System (WMS) Implementation Change	CW	S2	04	63	1,108	0	0	0	1,171	0	1,171	0	(0	0	351	0	0	0	0	820	1,171
0 10	Electronic Document & Records Mgmt Solution Change	CW	S2	04	437	0	0	0	0	437	0	437	0	(0	0	131	0	0	0	0	306	437
0 11	SWMS Electronic Document & Records Management	CW	S3	04	-437	0	0			-437	0	-437	0				-131	0	0		0		
	Sub-total				2,133	3,012	1,397	1,452	0	7,994	0	7,994	0	(0	0	4,392	0	0	0	0	3,602	7,994
SOL9079	Transfer Station Asset Management																						
0 41	Transfer Station Asset Management	CW	S2	03	11,964	11,965	0	0	0	23,929	0	23,929	0	(0	0	23,929	0	0	0	0	C	23,929
0 42	Transfer Station Asset Management	CW	S3	03	336	4,155	7,000			·	0	11,491	О				11,491	0	0		0		
	Sub-total				12,300	16,120	7,000	0	0	35,420	0	35,420	0	C	0	0	35,420	0	0	0	0	(35,420
SOL9080	82 <u>Diversion Facilities Asset Management</u>																						

Report Phase 5 - Program 17 Solid Waste Management Program Phase 5 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3, S4, S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

CITY OF TORONTO

Gross Expenditures (\$000's) Appendix 4: 2017 Cash Flow and Future Year Commitments

						Curr	ent and F	uture Year	Cash Flo	w Commitn	nents			Cu	rrent and F	uture Year	Cash Flo	w Comm	itments	Finance	d By		
	<u>oject No. Project Name</u> oProj No. Sub-project Name	Ward S	Stat. C	at.	2017	2018	2019	2020	2021	Total 2017-2021	Total 2022-2026	Total 2017-2026	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2		Debt - Recoverable t	Total Financing
SOL908082	Diversion Facilities Asset Management																						
0 5	Diversion Facilities Aseet Management	CW	S3	03	2,000	2,750	700	0	0	5,450	0	5,450	o	(0	0	5,450	C)	0	0	0 0	5,450
	Sub-total			-	2,000	2,750	700	0	0	5,450	0	5,450	0	(0	0	5,450	C)	0	0	0 (5,450
SOL908171	Engineering Planning Studies																						
0 3	Engineering Planning Studies	CW	S3	04	1,500	700	0	0	0	2,200	0	2,200	o	(0	0	2,200	C)	0	0	0 0	2,200
	Sub-total				1,500	700	0	0	0	2,200	0	2,200	0	(0	0	2,200	C)	0	0	0 (2,200
SOL908389	Dufferin Waste Facility																						
0 1	Dufferin Waste Facility Site Improvement	CW	S4	05	500	0	0	0	0	500	0	500	0	(0	0	500	C)	0	0	0 0	500
	Sub-total				500	0	0	0	0	500	0	500	0	(0	0	500	C)	0	0	0 (500
Total Pr	ogram Expenditure				105,291	84,285	47,445	18,022	12,580	267,623	23,016	290,639	0	(0	0	207,933	C)	0	0	0 82,706	290,639

May-12-2017 13:47:23

Page 5 of 5

Report 7Ca

Report Phase 5 - Program 17 Solid Waste Management Program Phase 5 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3,S4,S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

CITY OF TORONTO

Gross Expenditures (\$000's)

Appendix 4: 2017 Cash Flow and Future Year Commitments

Solid '	Waste	Management
---------	-------	------------

		Current and	Future Ye	ar Cash F	low Comr	nitments a	nd Estimate	s		Curren	t and Future	Year Cash Flow	Commitm	ents and	Estimates	Finance	d By	
<u>Sub-</u> <u>Project No.</u> <u>Project Name</u> Priority SubProj No. Sub-project Name Ward Stat. C	t. 2017	2018	2019	2020	2021	Total 2017-2021	Total 2022-2026	Total 2017-2026	Provincial Grants and Subsidies	Federal De Subsidy	evelopment Charges F	Reserv Reserves Funds			1 Other2	Rec	Debt - overable	Total Financing
Financed By: Reserve Funds (Ind."XR" Ref.)	64,351	42,519	47,445	18,022	12,580	184,917	23,016	207,933	0	0	0	0 207,9	33	0	0 0	0	0	207,933
Debt - Recoverable	40,940	41,766	0	0	0	82,706	0	82,706	0	0	0	0	0	J	0 0	0	82,706	82,706
Total Program Financing	105,291	84,285	47,445	18,022	12,580	267,623	23,016	290,639	0	0	0	0 207,9	33)	0 0	0	82,706	290,639

Status Code Description S2

S2 Prior Year (With 2017 and\or Future Year Cashflow)

S3 S3 Prior Year - Change of Scope 2017 and\or Future Year Cost\Cashflow) S4

S4 New - Stand-Alone Project (Current Year Only)

S5 New (On-going or Phased Projects)

Category Code Description

S5

04

01 Health and Safety C01

Legislated C02 03

State of Good Repair C03

Service Improvement and Enhancement C04

Growth Related C05 06 Reserved Category 1 C06 07 Reserved Category 2 C07

2017 Capital Budget with Financing Detail

(Phase 5) 17-Solid Waste Management

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: 2017 Capital Budget with Financing Detail **Solid Waste Management**

Sub-Project Summary

Project/	Financing		1		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
<u>0 SO</u>	L906419 Perpetual Care of Landfills												
0	12 Perpetual Care of Landfills	06/18/2014 12/31/202	9,942	0	0	0	0	9,942	0	0	0		0 0
0	13 Perpetual Care of Landfills - Change	01/01/2025 12/31/202	-66	0	0	0	0	-66	0	0	0		0 0
		Project Sub-total:	9,876	0	0	0	0	9,876	0	0	0		0 0
0 SO	L906580 Collection Yard Asset Management												
0	46 Collection Yards Asset Management	01/01/2014 12/31/202	200	0	0	0	0	200	0	0	0		0 0
	· ·	Project Sub-total:	200	0	0	0	0	200	0	0	0		0 0
0 SO	L907246 Green Lane Landfill Development												
0	27 Landfill Gas Control System	01/01/2011 12/31/202	4,276	0	0	0	0	641	0	0	0		0 3,635
0	28 Leachate Control System	01/01/2016 12/31/201	1,948	0	0	0	0	292	0	0	0		0 1,656
0	42 Landfill Gas Utilization	01/01/2015 12/31/201	7 200	0	0	0	0	30	0	0	0		0 170
0	44 Cell Excavation & Base Construction	01/01/201212/31/202	8,024	0	0	0	0	1,204	0	0	0		0 6,820
0	45 Engineering & Monitoring	01/01/201312/31/202	108	0	0	0	0	16	0	0	0		0 92
0	46 Site Services/Final Cover/Storm Control	01/01/2012 12/31/202	1,760	0	0	0	0	264	0	0	0		0 1,496
0	52 Buffer Land	01/01/2017 12/31/201	7 1,500	0	0	0	0	225	0	0	0		0 1,275
0	53 Landfill Gas Utilization	01/01/2017 12/31/202	262	0	0	0	0	80	0	0	0		0 182
0	54 Landfill Gas Control System	01/01/2017 12/31/202	-1,716	0	0	0	0	-257	0	0	0		0 -1,459
0	55 Leachate Control System	01/01/2017 12/31/202	-1,683	0	0	0	0	-252	0	0	0		0 -1,431
0	56 Site Services/Final Covers/Storm - Change	01/01/2017 12/31/202	1,103	0	0	0	0	165	0	0	0		0 938
0	57 Cell Excavation & Base Construction	01/01/2017 12/31/202	-5,056	0	0	0	0	-758	0	0	0		0 -4,298
0	58 Engineering and Monitoring Change	01/01/2017 12/31/202	-35	0	0	0	0	-11	0	0	0		0 -24
		Project Sub-total:	10,691	0	0	0	0	1,639	0	0	0		0 9,052
<u>0</u> <u>SO</u>	L907630 Dufferin SSO Facility												
0	3 Dufferin SSO Facility Expansion	01/01/2016 12/31/201	47,506	0	0	0	0	14,252	0	0	0		0 33,254
0	5 Expansion of the Dufferin SSO processing facility	01/01/2017 12/31/201	-11,006	0	0	0	0	-3,301	0	0	0		0 -7,705
		Project Sub-total:	36,500	0	0	0	0	10,951	0	0	0		0 25,549
<u>0</u> SO	L907631 Disco SSO Facility												
0	2 Site Remediation	01/01/2010 12/31/201	4,405	0	0	0	0	1,321	0	0	0		0 3,084
0	7 Disco SSO Facility	01/01/2017 12/31/201	-4,405	0	0	0	0	-1,321	0	0	0		0 -3,084
		Project Sub-total:	0	0	0	0	0	0	0	0	0		0 0
<u>0</u> SO	L907632 Long Term Waste Management Strategy												
0	8 Reduce & Reuse, Multi-Residential and Incentives	01/01/2017 12/31/202	1,470	0	0	0	0	441	0	0	0		0 1,029
0	11 Commissioners TS	01/01/2017 12/31/202	100	0	0	0	0	30	0	0	0		0 70

Report P2-1A

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: 2017 Capital Budget with Financing Detail

Solid Waste Management Sub-Project Summary

Project/F	Financing			2017 Financing										
Priority Project Name		Start Date Com	pletion Ca Date	ash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
<u>0</u> SO	L907632 Long Term Waste Management Strategy													
0	12 Promotion and Education	01/01/2017 12/3	1/2026	1,220	0	0	0	0	366	0	0	0		0 854
0	16 Mixed Waste Processing with Organics Recovery&Test	01/01/2017 12/3	1/2026	2,120	0	0	0	0	636	0	0	0		0 1,484
0	18 Enhanced services for ICI & const, reno & demo	01/01/2017 12/3	1/2026	55	0	0	0	0	17	0	0	0		0 38
0	20 Unit for Research, Innovation and Circular Economy	01/01/2017 12/3	1/2026	420	0	0	0	0	126	0	0	0		0 294
		Project Sub-tota	al:	5,385	0	0	0	0	1,616	0	0	0		0 3,769
0 SO	L907863 Biogas Utilization													
0	3 Construction of Biogas Utlization - Disco	01/01/2015 12/3	1/2017	2,675	0	0	0	0	802	0	0	0		0 1,873
0	6 Construction of Biogas Utilization - Dufferin	01/01/2016 12/3	1/2019	100	0	0	0	0	30	0	0	0		0 70
0	8 Biogas Utilization at Disco	01/01/2017 12/3	1/2019	-2,487	0	0	0	0	-746	0	0	0		0 -1,741
0	9 Biogas Utilization at Dufferin	01/01/2017 12/3	1/2021	-100	0	0	0	0	-30	0	0	0		0 -70
		Project Sub-tota	al:	188	0	0	0	0	56	0	0	0		0 132
0 SO	L907919 SWM IT Application Initiatives													
0	4 RFID Integration	01/01/2012 12/3	1/2016	81	0	0	0	0	24	0	0	0		0 57
0	22 Short Term Application Improvements	01/01/2014 12/31/2016		12	0	0	0	0	3	0	0	0		0 9
0	23 SWMS Information Model	01/01/2015 12/31/2017		24	0	0	0	0	7	0	0	0		0 17
0	24 Business Process Analysis & Improvement	01/01/2014 12/31/2017		20	0	0	0	0	6	0	0	0		0 14
0	26 Transfer Station Efficiencies	01/01/2014 12/3	1/2017	200	0	0	0	0	60	0	0	0		0 140
0	32 KPI Reporting and Measuring - Change	01/01/2016 12/3	1/2016	67	0	0	0	0	20	0	0	0		0 47
0	33 SWMS Information Model - Change	01/01/2016 12/3	1/2017	76	0	0	0	0	23	0	0	0		0 53
0	41 KPI Reporting and Measuring - Change	01/01/2016 12/3	1/2016	618	0	0	0	0	185	0	0	0		0 433
0	43 SHORT TERM APPLICATION IMPROVEMENTS	01/01/2017 12/3	1/2017	250	0	0	0	0	75	0	0	0		0 175
		Project Sub-tota	al:	1,348	0	0	0	0	403	0	0	0		0 945
0 SO	L907956 IT Corporate Initiatives													
0	5 Electronic Document & Records Mgmt Solution	01/01/2015 12/3	1/2017	70	0	0	0	0	21	0	0	0		0 49
0	8 Work Management System (WMS) Implementation	01/01/201312/3	1/2018	2,000	0	0	0	0	600	0	0	0		0 1,400
0	9 Work Management System (WMS) Implementation Change	01/01/2016 12/3	1/2018	63	0	0	0	0	19	0	0	0		0 44
0	10 Electronic Document & Records Mgmt Solution Change	01/01/2016 12/3	1/2018	437	0	0	0	0	131	0	0	0		0 306
0	11 SWMS Electronic Document & Records Management	01/01/2016 12/3	1/2018	-437	0	0	0	0	-131	0	0	0		0 -306
		Project Sub-tota	al:	2,133	0	0	0	0	640	0	0	0		0 1,493
<u>0</u> SO	L907957 Transfer Station Asset Management													
0	41 Transfer Station Asset Management	01/01/2017 12/3	1/2026	11,964	0	0	0	0	11,964	0	0	0		0 0
0	42 Transfer Station Asset Management	01/01/2016 12/3	1/2026	336	0	0	0	0	336	0	0	0		0 0
		Project Sub-tota	al:	12,300	0	0	0	0	12,300	0	0	0		0 0

Report P2-1A

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: 2017 Capital Budget with Financing Detail

Solid Waste Management Sub-Project Summary

Proje	ect/Financing			2017	•• • • • • • • • • • • • • • • • • • • •									
Prior	ity Project	Project Name	Start Date Completion Date	Cash Flow	Provincial Grants	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From	Other 1	Other 2	Debt	Debt - Recoverable
					Subsidies	-				Current				
<u>0</u>	SOL908082	Diversion Facilities Asset Management												
0	5 Di	version Facilities Aseet Management	01/01/2017 12/31/2026	2,000	0	0	0	0	2,000	0	0	0	C	0
			Project Sub-total:	2,000	0	0	0	0	2,000	0	0	0	(0
<u>0</u>	SOL908171	Engineering Planning Studies												
0	3 Er	ngineering Planning Studies	01/01/2017 12/31/2026	1,500	0	0	0	0	1,500	0	0	0	(0
			Project Sub-total:	1,500	0	0	0	0	1,500	0	0	0	(0
<u>0</u>	SOL908389	Dufferin Waste Facility												
0	1 Du	ufferin Waste Facility Site Improvement	01/01/2017 12/31/2019	500	0	0	0	0	500	0	0	0	(0
			Project Sub-total:	500	0	0	0	0	500	0	0	0	(0
<u>3</u>	SOL000065	<u>Diversion Systems</u>												
0	102 R	eplacement Waste Bins Single-Family	01/01/201312/31/2025	500	0	0	0	0	500	0	0	0	(0
0	110 2r	d Generation Green Bin Implementation	01/01/2016 12/31/2017	570	0	0	0	0	570	0	0	0	(0
0	114 Re	eplacement Waste Bins Single Family - Change	01/01/2016 12/31/2017	2,000	0	0	0	0	2,000	0	0	0	(0
0	119 Re	eplacement Waste Bins Single Family	01/01/2017 12/31/2025	2,500	0	0	0	0	2,500	0	0	0	(0
0	120 2r	d Generation Green Bin Replacement - Change	01/01/2016 12/31/2016	16,500	0	0	0	0	16,500	0	0	0	(0
0	122 TO	CHC ORGANIC IMPLEMENTATION PROGRAM	01/01/201612/31/2017	500	0	0	0	0	500	0	0	0	(0
0	123 SS	SO IN-UNIT KITCHEN CONTAINERS	01/01/2017 12/31/2026	100	0	0	0	0	100	0	0	0	(0
			Project Sub-total:	22,670	0	0	0	0	22,670	0	0	0	(0
									·			·	·	
Prog	gram Total:			105,291	0	0	0	0	64,351	0	0	0	(40,940

Status Code Description

S2 S2 Prior Year (With 2017 and\or Future Year Cashflow)

S3 S3 Prior Year - Change of Scope 2017 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

Legislated C02 03 State of Good Repair C03

04 Service Improvement and Enhancement C04

05 Growth Related C05 06 Reserved Category 1 C06 Reserved Category 2 C07

Reserve / Reserve Fund Review

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

Doserve /	Project / SubProject Name and Number	Balance as of					Contributio	outions / (Withdrawls) \$000s											
Reserve / Reserve Fund Name		December 31	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2017 - 2026 Total						
XR1013	Beginning Balance (Jan. 1)	29,381	32,403	30,905	31,160	30,516	30,668	30,822	30,976	31,131	31,286	31,443	32,403						
Perpetual Care	Estimated Interest Earned	145	178	155	156	153	153	154	155	156	156	157	1,573						
of Landfill	Contributions (Operating)	9,249	8,200	8,200	8,200	8,000	8,000	5,000	5,000	5,000	5,000	5,000	65,600						
Reserve Fund	Morningside Landfill Remediation	(69)											-						
	Basic Perpetual Care	(4,202)	(6,584)	(5,400)	(6,000)	(5,333)	(5,333)	(3,333)	(3,333)	(3,333)	(3,333)	(3,333)	(45,317)						
	New Control Systems	(2,101)	(3,292)	(2,700)	(3,000)	(2,667)	(2,667)	(1,667)	(1,667)	(1,667)	(1,667)	(1,667)	(22,659)						
	Subtotal Perpetual Care Ptroject	(6,303)	(9,876)	(8,100)	(9,000)	(8,000)	(8,000)	(5,000)	(5,000)	(5,000)	(5,000)	(5,000)	(67,976)						
	Total Proposed Net Contributions/(Withdrawals)	3,022	(1,498)	255	(644)	153	153	154	155	156	156	157	(803)						
TOTAL RESERVE FUND BALANCE AT YEAR-END 3			30,905	31,160	30,516	30,668	30,822	30,976	31,131	31,286	31,443	31,600	31,600						

Reserve /		Balance as of	Contributions / (Withdrawls) \$000s												
Reserve Fund Name	ve Fund ame Project / SubProject Name and Number	December 31	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2017 - 2026 Total		
XR1404 Waste	Beginning Balance (Jan. 1)	115,465	121,013	75,521	58,295	28,052	20,281	24,112	26,756	36,049	62,043	94,307	121,013		
Management	Estimated Interest Earned	605	605	378	291	140	101	121	134	180	310	472	2,732		
Reserve Fund	Contributions (Withdrawals)														
	Operating	20,475	25,269	34,495	37,955	33,912	41,611	49,866	58,256	67,001	74,631	86,596	509,591		
	Prior Y/E Operating Surplus	8,222													
	Transfer to/from Vehicle Reserve	-	(18,313)	-	6,104	6,104	6,104						(0)		
	Funding of Landfill Gas Utilization	-	(69)	(773)	(13,538)								(14,380)		
	Funding of Transfer Station Capital	(12,219)	(12,300)	(22,700)	(17,000)	(9,200)	(8,290)	(6,300)	(5,460)	(5,900)	(6,150)	(6,150)	(99,450)		
	Funding of Collection Yard Capital Funding of Diversion Facilities Asset	(380)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(2,000)		
	Mgmt.	(227)	(2,000)	(2,750)	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(16,750)		
	Funding of Disco SSO Facility	(162)	-	(1,322)									(1,322)		
	Funding of Dufferin SSO Facility	(3,617)	(10,950)	(5,647)									(16,597)		
	Funding of Biogas Utilization Funding of Long Term Waste Mgmt	(12)	(56)	(1,031)	(1,442)	(900)	(3,570)						(6,999)		
	Strategy	(906)	(1,616)	(2,141)	(8,457)	(9,192)	(13,801)	(21,160)	(23,944)	(15,487)	(16,087)	(17,657)	(129,541)		
	Funding of Diversion Systems.	(5,267)	(22,670)	(3,900)	(3,900)	(3,900)	(3,900)	(3,900)	(3,900)	(3,900)	(3,900)	(3,600)	(57,470)		
	Funding of SWM IT Application														
	Initiatives	(284)	(289)	(668)	(4,066)	(964)	(108)	(372)					(6,467)		
	Funding of IT Corporate Initiatives	(270)	(301)	(987)	(1,776)	(2,061)							(5,125)		
	Fund Revenue Services Billing System	(92)	(602)	(481)	(373)					(108)	(747)		(2,395)		
	Funding of Two-way Radios Funding of Renewable Natural Gas Fleet Fuel From Biogas	(120)	(500)	(0.000)	(0.000)	(4.000)							- (20.500)		
	Funding of Dufferin Waste Facility Funding of Engineering Planning Studies	(198)	(500) (1,500)	(8,000) (1,500)	(8,000) (1,500)	, , ,	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(1,500)	(20,500) (15,000)		
	Funding of Green Lane Landfill Development (balance)				(12,842)	(14,510)	(11,118)	(12,326)	(12,593)	(12,593)	(12,593)	(12,593)	(101,167)		
	Net Total Proposed Contributions (Withdrawals)	5,548	(45,492)	(17,226)	, ,		3,830	2,645	9,293	25,993	32,264	43,868	17,161		
	Total Project Funding Withdrawals	(23,753)	(71,367)	(52,098)	(68,490)	(41,823)	(37,883)	(47,342)	(49,097)	(41,187)	(42,677)	(43,200)	(495,163)		
TOTAL RESERVE	FUND BALANCE AT YEAR-END	121,013	75,521	58,295	28,052	20,281	24,112	26,756	36,049	62,043	94,307	138,174	138,174		

^{*} Based on the 2016 Q3 Variance Report

Appendix 6- continued

Reserve / Reserve Fund Review Reserve / Reserve Fund – Program Specific (\$000s)

B		Balance and					Propose	d Cash Flov	vs \$000s				
Reserve / Reserve Fund Name	Project / SubProject Name and Number	Balance as of December 31, 2016	2017 Plan	2018 Plan	2019 Plan	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2017 - 2026 Total
XR1408 Green Lane	Beginning Balance (Jan. 1)	15,299.78	14,791	14,861	14,193	13,530	12,569	12,203	11,622	10,993	10,360	9,726	14,791
Reserve	Contributions / (Withdrawls)	980	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	15,471
	Estimated Interest Earned	74	58	58	55	53	49	48	45	43	40	38	487
	Buffer Land	(117)	(225)	(225)	(225)	(225)	(225)	(225)	(225)	(225)	(225)	(225)	(2,250)
	Cell Excavation and Base Const.	(566)	(445)	(1,604)	(1,368)	(962)	(947)	(1,183)	(1,198)	(1,198)	(1,198)	(1,198)	(11,300)
	Engineering and Monitoring	(26)	(11)	(21)	(27)	(23)	(22)	(23)	(19)	(19)	(19)	(19)	(202)
	Leachate Control System	(198)	(40)	(71)	(260)	(379)	(209)	(204)	(219)	(219)	(219)	(219)	(2,040)
	Landfill Gas Control System	(438)	(384)	(194)	(220)	(762)	(345)	(272)	(377)	(377)	(377)	(377)	(3,686)
	Site Services/Final Cover/Storm Control	(218)	(429)	(158)	(166)	(209)	(214)	(268)	(184)	(184)	(184)	(184)	(2,182)
	Total Proposed (Withdrawls)	(1,563)	(1,534)	(2,273)	(2,266)	(2,561)	(1,962)	(2,175)	(2,222)	(2,222)	(2,222)	(2,222)	(21,660)
	Net Total Proposed Contributions / (Withdrawls)	(509)	70	(668)	(664)	(961)	(366)	(580)	(630)	(632)	(635)	(637)	(5,702)
TOTAL RESERV	VE FUND BALANCE AT YEAR-END	14,791	14,861	14,193	13,530	12,569	12,203	11,622	10,993	10,360	9,726	9,088	9,088

^{*} Based on the 2016 Q3 Variance Report