

2018 ANNUAL REPORT

SANITARY SERVICING STRATEGY FUND

CITY PLANNING | AUGUST 2019

Message from the Chair of the Management Committee

This is the 20th annual report of the Sanitary Servicing Strategy Fund (SSSF) program and activities. Since the program's inception, the strategy has successfully encouraged growth and development in the City of Edmonton with its approach to financing the sanitary drainage network.

I would be remiss if I did not take an opportunity to thank the outgoing Chair, Todd Wyman. The leadership and expertise Todd provided to the program over his tenure with the City of Edmonton are a big part of the success we have seen to date.

After taking over in March 2019, I was immediately struck by the high level of coordination and trust required to manage a multi-million dollar fund between three groups with different core interests. The City of Edmonton, EPCOR Drainage, and our development industry advisors all come to each meeting, at every level, well prepared and willing to share perspectives. More importantly, there's a willingness with each individual to listen and seek understanding from their peers. Decision making in a collaborative manner does not come easy, and I've been pleased to observe the high level of functionality this group achieves.

Here are some of the highlights you will find in this report:

- Construction activities underway and completed, including tunnelling, NEST and SESS trunk phases, and the commissioning and transfer of assets to Drainage Operations
- Discussion of the first phase of the governance review, as we continue to refine our approach to decision making following the transfer of drainage services from the City to EPCOR in 2017
- An update on decisions related to revenue rates, corrosion protection, construction progress, and planning for upcoming projects
- The updated revenue and expenditure reporting to the end of 2018.

The closing balance of the fund at the end of 2018 was \$68.7 million as compared to the 2017 year-end balance of \$70.0 million. Considering the current balance and future revenue forecast, we anticipate that the SSSF will be able to meet the short-term development needs within the City. Due to accelerated projected spending, the cash flow model shows a downward trend in the short to medium term. Continued analysis and adjustments to the program will validate the projected timelines and seek optimization of cash flow.

The focus in 2019 will be to complete the construction of SESS SW4 & N1 RTC gate, and continue working on NC2/NC3, & SA10a projects. In addition to the construction projects, a second phase of the governance review will determine the appropriate City Council oversight of the SSSF program. A fund reserve policy will be developed based on the level of oversight Council seeks, and these measures will provide clarity in business operations for the larger SSSF team.

Lindsey Butterfield, RPP, MCIP.

Director

Urban Growth & Open Space Strategy

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1.0 Planning & Construction Activities in 2018

Following are the highlights of planning and construction activities completed in 2018. Locations of these projects are provided in Figure 2, SSSF Major Sanitary Trunks Map.

North Edmonton Sanitary Trunk (NEST) Stage N1 RTC Gate

The NEST N1 RTC gate will control storage in the upstream trunk and regulate downstream flows.

The NEST N1 RTC Gate project involves the design and construction of a Real Time Control (RTC) gate at 153rd Avenue and Manning Drive. This gate will be used to control storage within the upstream trunk and to regulate downstream flows in the Clareview Sanitary Trunk (CST).

Installation of the bulkhead and two downstream control panels was completed in the first half of 2018. Design and construction of additional safety equipment for the new concrete manhole was undertaken in the second half of 2018.

North Edmonton Sanitary Trunk (NEST) - Stage NC2/NC3

NEST NC2/NC3 will connect the existing NC1 and NL1 trunk sections.

The NEST NC2/NC3 tunnel is part of the overall NEST system developed to facilitate growth in the North Edmonton area. The NC2 & NC3 segments will connect the existing NC1 section, which terminates at the NC1 Pump Station (153 Ave and Castledowns Road) to the NL1 tunnel (153 Avenue and 88 Street).

A Construction Complete Certificate was issued for phase 1 of NC2/NC3 in November 2018 and tunneling for phase 2 has been on-going. To date 1,215 meters of tunnel have been installed for phase 2 out of a total planned length of 2,400 meters.



Figure 1a – NEST NC2/NC3, Phase 2 Tunneling



Figure 1b - NEST NC2/NC3, Working Shaft and Tunnel



Figure 1c – NEST NC2/NC3, Trunk with Epoxy Coating

South Edmonton Sanitary Sewer (SESS) – Stage SA1a

SESS SA1a connects the SW1 pump station to the previously constructed SA1b/SA1c section.

SESS Stage SA1a involves construction of a 2,160 m long, 2100 mm - 2300 mm diameter tunnel that connects the SW1 pump station at Ellerslie Road and Parsons Road to the stage SA1b/SA1c tunnel at 91st Street.

Final surface restoration and landscaping work was completed in 2018 and a Construction Complete Certificate was issued in October 2018.

South Edmonton Sanitary Sewer (SESS) – Stage SW4

SESS SW4 will convey flows and provide wet weather storage for new development areas in south Edmonton.

SESS Stage SW4 involves construction of a 1,550 m long, 2940 mm diameter tunnel, which extends from Ellerslie Road (southwest at Whitemud Creek) to Windermere Boulevard, (west of the Anthony Henday/Rabbit Hill Road interchange). This stage will ultimately convey flows and provide wet weather storage for Windermere and Riverview areas.

The tunneling of the full length of SW4 finished in August 2018. The remainder of the year was used to patch and clean the tunnel as well as construct an intermediate concrete manhole.



Figure 1d –NEST N1 RTC Gate, 2400 mm Manhole



Figure 1e – SESS SW4, Tunnel Boring Machine Breakthrough



Figure 1f – SESS SW4, behind Tunnel Boring Machine

South Edmonton Sanitary Sewer (SESS) Stage SA10a with Pump Station & Force Main

SESS SA10a will provide sanitary storage and conveyance for south-eastern industrial areas.

SESS SA10a is located in southeast Edmonton along 34 Street, from 68 Avenue to 76 Avenue. The scope includes 745 m long, 3050 mm diameter sanitary trunk, a pump station and a sanitary force main. The purpose of SA10a, in the short term, is to serve as a sanitary storage and conveyance tunnel for the new development around Maple Ridge, Pylypow and South East Industrial Areas. This system will eventually be part of the SA sanitary trunk system and the pump station will ultimately convey flows to the Gold Bar Wastewater Treatment Plant.

Construction of a working pit for the project began in mid-2018. All 120 piles for the working pit were installed as of October 2018 with pit excavation continuing into 2019.

The SESS SA1c RTC gate controls storage in the upstream trunk and regulates downstream flows.

South Edmonton Sanitary Sewer (SESS) – Stage SA1c RTC Gate

This project includes design and construction of a Real Time Control (RTC) Gate at 28th Avenue and 91st Street. This gate will be used to control storage within the SA1 trunk and regulate downstream flows.

The project was commissioned and handed over to Drainage Operations in June 2018.

The WESS W3-4-5 Functional Planning Study will help coordinate the construction and alignment of a new sanitary trunk with other projects in the area.

WESS W3-4- 5 Functional Planning Study

This study will finalize the critical functional aspects and preferred alignment of the W3-4-5 sanitary trunk segments. This knowledge will be used to coordinate construction and avoid alignment conflict with the 99th Avenue Sanitary Trunk Rehabilitation and Valley Line LRT Projects.

The study began in July 2018 and so far data collection and review as well as trunk alignment option analysis have been completed with stakeholder consultation being done on an on-going basis led by EPCOR.

The SESS SW1 Pump Station Upgrade will support the needs of a growing population for the next 5-10 years.

SESS SW1 Pump Station Upgrade- Concept Planning Study

This study will create the conceptual design for the expansion of the SESS SW1 Pump Station. The expansion is intended to support the next five to ten years of population growth and will be limited to the capacity of the existing drywell.

The project was awarded to a consultant in June 2018 and a Draft Conceptual Design Report was completed in November 2018. The Final Conceptual Design Report is expected for early 2019.

The financial model of the SSSF is continuously updated and improved to provide better predictions of future revenue.

SSSF Financial Model Update- Phase 2

The phase 2 financial model upgrade is to further enhance the functionality based on phase 1 outcomes with some additional outputs that will add value to the current setting of the model.

The final model and technical report was received in mid-2018. Training and support has been on-going and will continue into 2019.

The Governance Review assessed the structure of the management & operational committees and provided recommendations for increased communication & collaboration between the City, EPCOR, and other stakeholders.

Governance Review

The SSSF governance structure was reviewed to align the program with the new organizational structure of the City and to reflect the transfer of planning and system assessment components of the SSSF to EPCOR Drainage. The review provided recommendations for increased communication & collaboration between the City, EPCOR, and external stakeholders. Furthermore, it provided suggestions for improved processes, policies and management principles towards further improving the transparency & effectiveness of the overall fund management.

An updated governance structure was developed by an independent consultant with the consensus of external stakeholders. As per the new governance structure, the SSSF will be governed through a committee governance structure that makes a clear distinction between the management of the Fund and technical operations. Ensuring appropriate management of the Fund is the mandate of Oversight Committee which acts as a strategic decision-making body of the Fund. Sub-committees (Planning & Management Committee and Finance & Audit Committee) support the Oversight Committee with inputs and recommendations and manage aspects of day-to-day Fund activities through the delegation of appropriate authority from the Oversight Committee.

2.0 Management and Operational Committees

As mentioned above, a Governance Review was initiated in 2017 in order to review the SSSF governance structure including the Management and Operational Committees. This review was the main focus of the SSSF committees in 2018 and was completed in Q4. The review will lead to a new committee and governance structure being implemented in Q1 2019.

The role of the current **SSSF Management Committee** is to make decisions regarding revenues and expenditures that best meet the long-term plan of all the stakeholders. The Management Committee in 2018 consisted of the following six members:

The Management and SSSF Operational Committees met twice in 2018. The major decisions made by the joint Committees are as follows:

- Approval of a 2% revenue rate increase for 2019.
- Approval of corrosion protection for NEST NC2/NC3 Phase 1 at a cost of \$692,081.
- Approval of a revised budget of \$129,758 to complete the WESS W3, 4, 5 Functional Planning Study.
- Approval of the 2017 Annual Report.

3.0 Five Year Construction Plan

The following section outlines the proposed major SSSF construction program for the next five years (2019-2023). The proposed program is developed to support orderly development throughout the City of Edmonton in a cost effective manner, using current population and employment projections, as well as input from the development industry. It also strives to meet the important objective of maintaining a positive balance for the Fund. The locations of the construction projects are shown in Figure 2 on page 14. All timings are estimated and are subject to change based on funding availability and further technical analysis.

2019 – West Edmonton Sanitary Sewer (WESS) W3-4-5 Functional Planning Study

The W3-4-5 Functional Planning Study is expected to be completed in 2019.

Stakeholder consultation is on-going and preparations are underway for a Value Engineering/ Risk Assessment Workshop in January 2019.

The study is expected to be completed in 2019.

2019 – South Edmonton Sanitary Sewer (SESS) SW1 Pump Station Upgrade Concept Planning Study

The SW1 PS Upgrade Concept Planning Study is expected to be completed in early 2019.

A Draft Conceptual Design Report was received in November 2018 and a Final Report is expected to be completed in early 2019.

2019 to 2020 – North Edmonton Sanitary Trunk (NEST) Stage N1 RTC Gate

The NEST N1 RTC gate is expected to be completed in April 2019.

Concrete manhole, bulkhead, and control panel construction is completed. Work on installing safety infrastructure is on-going.

The project is expected to be completed by April 2019.

2019 to 2020 – South Edmonton Sanitary Sewer (SESS) Stage SW4

SESS SW4 is expected to be completed in late 2019.

Tunneling was completed in 2018 and patching, cleaning, and dismantling has been on-going and will continue into 2019. The project is expected to be completed by October 2019.

2019 to 2020 – South Edmonton Sanitary Sewer (SESS) Stage SA10a with Pump Station & Force Main

SA10a is currently under construction with completion scheduled for the end of 2020.

Excavation of a working pit is about 70% complete with excavation continuing into 2019. Complete commissioning of the tunnel, pump station, and force main is expected to be completed by the end of 2020.

2019 to 2021 – South Edmonton Sanitary Sewer (SESS) Stages SW1 PS Upgrade

The SW1 pump station is planned for an upgrade to 400 L/s capacity in 2020.

The SW1 Pump Station is planned to be upgraded in several stages to accommodate development. These upgrades are expected to increase the PS's capacity to 400 L/s. Upgrades to the PS are expected to be completed by 2020.

2019 to 2022 – North Edmonton Sanitary Trunk (NEST) Stage NC2 & NC3 - Phase 2

NEST NC2/NC3 Phase 2 tunneling is on-going.

Tunneling for NEST NC2/NC3 Phase 2 is on-going. So far 1,215 m out of 2,400 m has been completed. The project is expected to be completed by December 2020.

2020 to 2023 – West Edmonton Sanitary Sewer (WESS) Stage W3-4-5 and Connection Structure to the 1650 mm Combined Trunk

WESS Stage W3-4-5 will be a 2,400 m long, 2340 mm diameter trunk planned to travel from 142 St and MacKinnon Ravine to northwest of 124 St

The WESS W3, 4, 5 segments will provide increased conveyance and relieve existing bottlenecks in the WESS system.

and 107 Ave. The segments will ultimately increase conveyance capacity of the sewer network from West Edmonton to Gold Bar Wastewater Treatment Plant (GBWWTP). These segments are expected to provide sufficient storage to support new developments in the area.

SW5 will serve the Riverview and Windermere areas. Construction is expected to finish in 2022.

2020 to 2023 – South Edmonton Sanitary Sewer (SESS) Stage SW5

SESS Stage SW5 will be a 1,810 m long, 2920 mm diameter trunk planned to travel along Windermere Boulevard from Terwillegar Drive to the west of the Anthony Henday/Rabbit Hill Road interchange. The segment will serve Riverview and Windermere areas.

Construction is expected to be completed in 2022.

2020 to 2023 – South Edmonton Sanitary Sewer (SESS) Stage SA2 & RTC Gate

SA2 and RTC Gate will regulate conveyance and storage in the SESS system. Segment is expected to be in service by the end of 2022.

Stage SA2 will be a 1,700 m long, 2340 mm diameter trunk planned to connect the SA1 trunk to the Millwoods storage tunnel (SA3 & SA4). This segment provides additional storage and will convey flows to SA5/SA6.

The SA2 RTC gate is planned to regulate flows at the downstream end of the SA2 trunk to manage and optimize storage and conveyance of the SA system.

Construction is expected to be completed in 2022. Further analysis will be conducted to validate the timeline of this segment.

2021 to 2024– South Edmonton Sanitary Sewer (SESS) Stage SA5

SA5 will relieve high flows in existing trunks and is projected for construction from 2021 to 2024.

Stage SA5 is a 1,500 m long, 2920 mm diameter storage/conveyance segment that will relieve the 99th Street trunk by discharging SESS flows to the Burnewood Trunk.

The segment is anticipated to be in service by the end of 2024. Further analysis will be conducted to validate the timeline of this segment.

2022 to 2025 – South Edmonton Sanitary Sewer (SESS) Stage SA6 & PS

Stage SA6 is 1500m long and 2920mm diameter storage/conveyance segment and will help to relieve the 99 Street trunk. This also includes a pump station

SA6 will discharge flow to Burnwood sanitary trunk through a pump station. Project is expected to be completed by the end of 2025.

at the end of the segment to discharge the flow to the Burnwood sanitary trunk.

The project is expected to be completed in 2025. However, further analysis will be conducted to validate the timeline of this segment. Any change in SA2, SA5 & SA6 timings will also impact the financial forecast.

2023 to 2026 – South Edmonton Sanitary Sewer (SESS) Stage SW6

SW6 will serve the Riverview area. Construction is expected to finish in 2025.

SESS Stage SW6 will be a 1,300 m long, 2920 mm diameter trunk that travels from Terwillegar Drive and Windermere Boulevard to the west end of the Windermere area. The segment will serve Riverview area.

Construction is expected to be completed in 2025.

2023 to 2027 – South Edmonton Sanitary Sewer (SESS) Stage SW7

SW7 will serve the Riverview area. Construction is expected to finish in 2026.

SESS Stage SW7 will be a 1,600 m long, 2920 mm diameter trunk planned to travel underneath the North Saskatchewan River and connect the Riverview area to the SESS system.

Construction is expected to be completed in 2026.

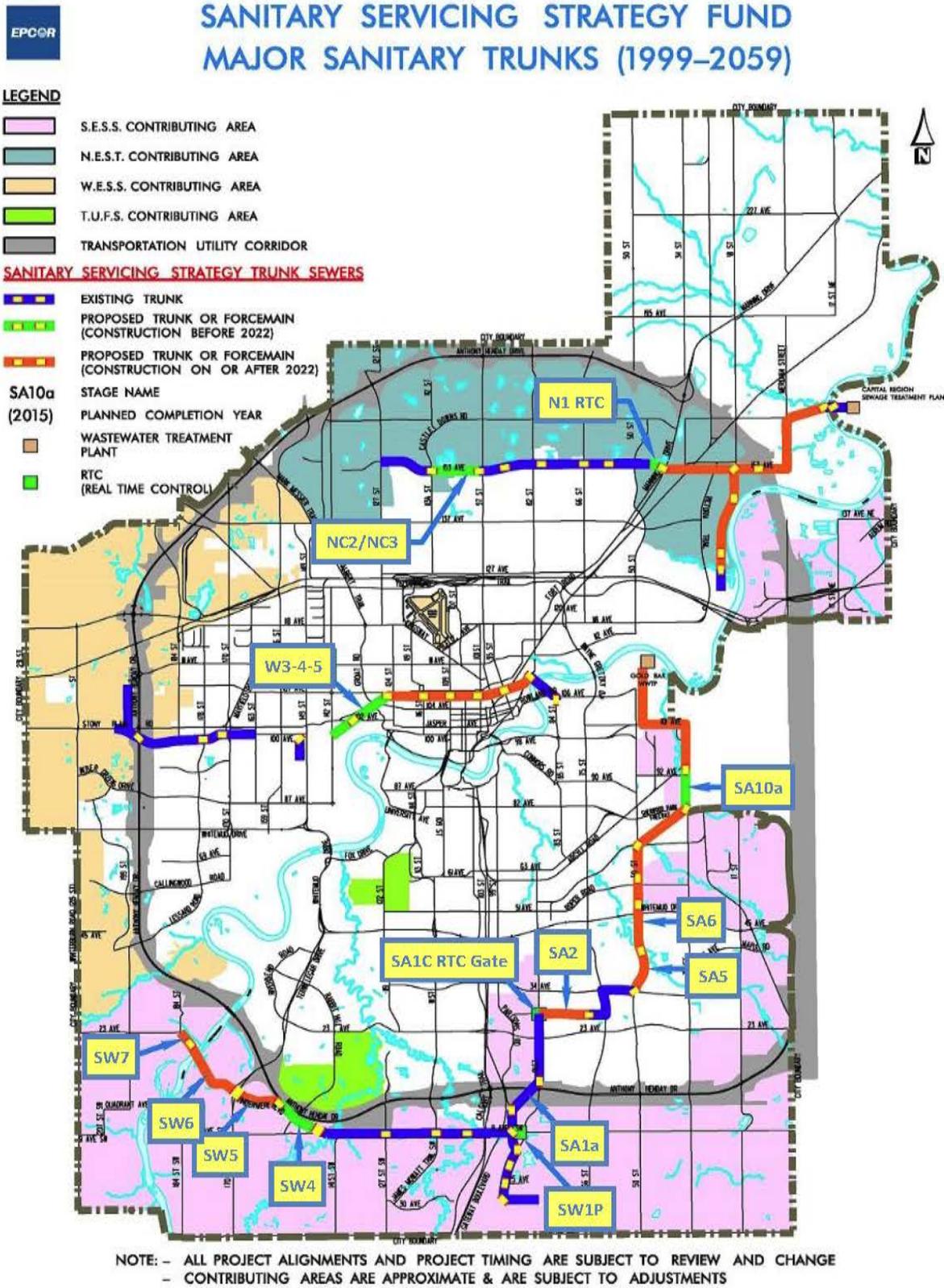


Figure 2 – SSSF Major Sanitary Trunks Map

4.0 Fund Balance

The SSSF is in good shape for the short term but has the potential to reach a negative balance in the mid-term. This is a result of accelerated segment timings as well as the need to add corrosion protection to new and existing sewer trunks.

The current SSSF program is forecasted to be completed by 2059 with a fund balance of zero. The Fund is currently and will continue to be in good health for the short term and will achieve its goals in the long term. However, there is a potential for the fund balance to become negative in the mid term.

In 2017, the City conducted an integrated study of the SSSF program to refine the timelines of future segments based on growth forecasts. This study resulted in a significant expeditious of various segments in the short and mid term. Furthermore, routine inspections of recently built SSSF segments has revealed corrosion in recently built sanitary trunks that is significantly worse than anticipated. This triggered a need for corrosion protection treatment for ongoing and future projects. Proposed corrosion protection options have the potential to increase overall project costs considerably.

The above mentioned issues were incorporated into the SSSF cash flow model which confirmed that the fund is likely to reach a negative balance in the mid term. However, the Fund will eventually recover and return to a positive balance in the long term. SSSF governance committees are evaluating different options to overcome the potential deficit.

4.1 Statement of Fund Activities & Balance

The Statement of Fund Activities and Balance for 2018 is shown on Table 1. Figure 3 shows each revenue component as a percentage of the total 2018 revenues. Figure 4 depicts the historical SSSF revenue breakdown and Figure 5 shows the historical SSSF budgeted and real expenditures.

Sanitary Servicing Strategy Fund				
Statement of Fund Activities and Balance				
For the Period Ending December 31, 2018				
	2017	2018	2018	2018
	Actual	Actual	Budget	Variance
REVENUES				
Sanitary Sewer Trunk Charge- Single / Duplex Revenue	7,544,108	7,510,256	7,344,689	165,567
Sanitary Sewer Trunk Charge- Multi family Revenue	2,047,421	3,424,991	3,672,344	(247,353)
Sanitary Sewer Trunk Charge- Commercial / Industrial Revenue	1,083,178	697,001	1,224,116	(527,115)
Expansion Assessment	6,034,835	7,755,495	8,547,704	(792,209)
	16,709,542	19,387,743	20,788,853	(1,401,110)
Sanitary Utility Contribution	1,300,000	1,300,000	1,300,000	0
Interest Earned	642,788	1,197,684	1,046,025	151,659
Total Revenues	18,652,330	21,885,427	23,134,878	(1,249,451)
EXPENDITURES				
NEST NC2/NC3	5,840,268	8,773,368	8,340,957	432,411
N1 RTC Gate	590,304	970,407	1,245,553	(275,146)
SESS SA1a	774,165	159,077	128,578	30,499
SESS SA1c RTC Gate	514,287	56,154	35,956	20,198
SESS SA1d	-	-	-	0
SESS SA10a	728,306	4,445,387	7,751,554	(3,306,167)
SESS SW4	5,566,349	8,693,797	10,700,535	(2,006,738)
SESS SW5	-	-	-	-
WESS W1	23,949	-	-	0
WESS W13	695	-	-	0
WESS W14	-	-	-	0
Preliminary Studies	427,566	112,856	-	112,856
Other COE	-	59,000	-	59,000
Completed Projects	-	-	-	-
Future Projects	0	0	-	0
Total Expenditures	14,465,889	23,270,046	28,203,133	(4,933,087)
Opening Balance	\$ 65,859,443	\$ 70,045,884	\$ 70,045,884	\$ -
Excess of Revenues over Expenditures	\$ 4,186,441	\$ (1,384,619)	\$ (5,068,255)	\$ 3,683,636
Ending Balance	\$ 70,045,884	\$ 68,661,265	\$ 64,977,629	\$ 3,683,636

Table 1 – Statement of Fund Activities and Balance

REVENUES:

Total revenues for 2018 were \$21.9 million which is higher than the \$18.7 million collected in 2017.

- **Sanitary Sewer Trunk Charge (SSTC)** – For 2018, SSTC revenues totaled \$11.6 million, higher by \$0.9 million than the \$10.7 million collected in 2017. Single-family/duplex developments contributed \$7.5 million in 2018 which was the same as 2017. For the multi-family residential, total collection this year was \$3.4 million, which is \$1.4 million higher than 2017. The remaining SSTC revenues, \$0.7 million came from commercial, industrial, and institutional sector, which is \$0.4 million lower than 2017.
- **Expansion Assessment (EA)** - For 2018, the total EA collected was \$7.8 million, compared to the \$6.0 million collected in 2017.

Total Revenue- \$21.9 million
SSTC Revenue- \$11.6 million
EA Revenue- \$7.8 million
Utility Revenue- \$1.3 million
Interest Earned- \$1.2 million

- **Utility Contribution** – Total Utility contribution in 2018 was \$1.3 million, the same as recent years.
- **Interest Earned** – Total interest earned during 2018 was \$1.2 million, double what was earned in 2017.

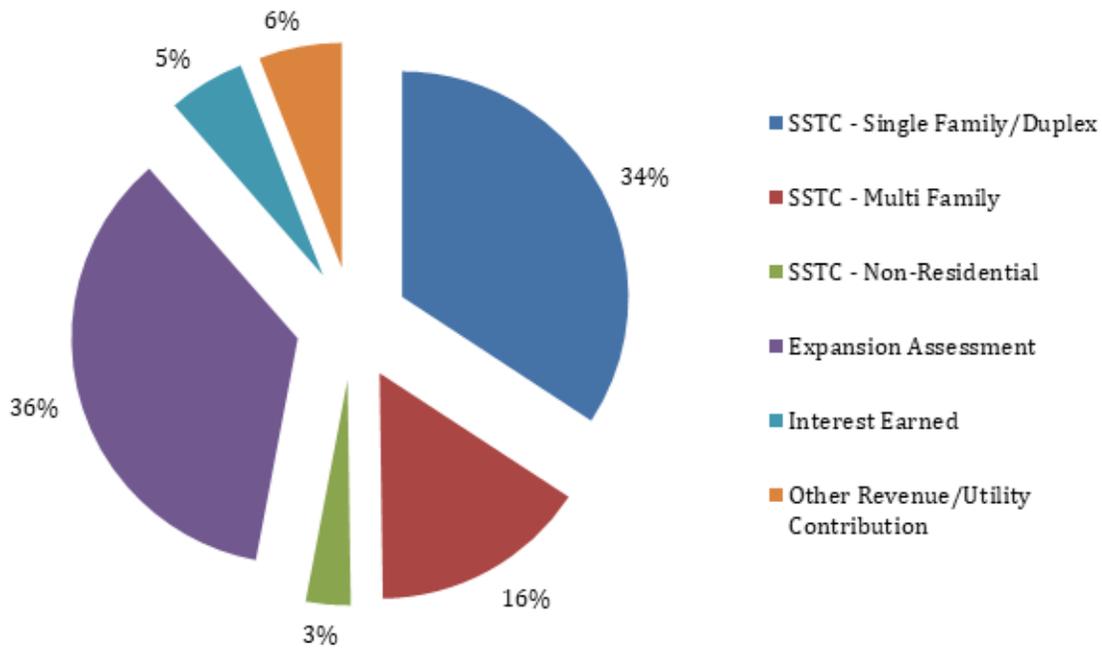


Figure 3 – 2018 SSSF Revenues (\$21.9M)

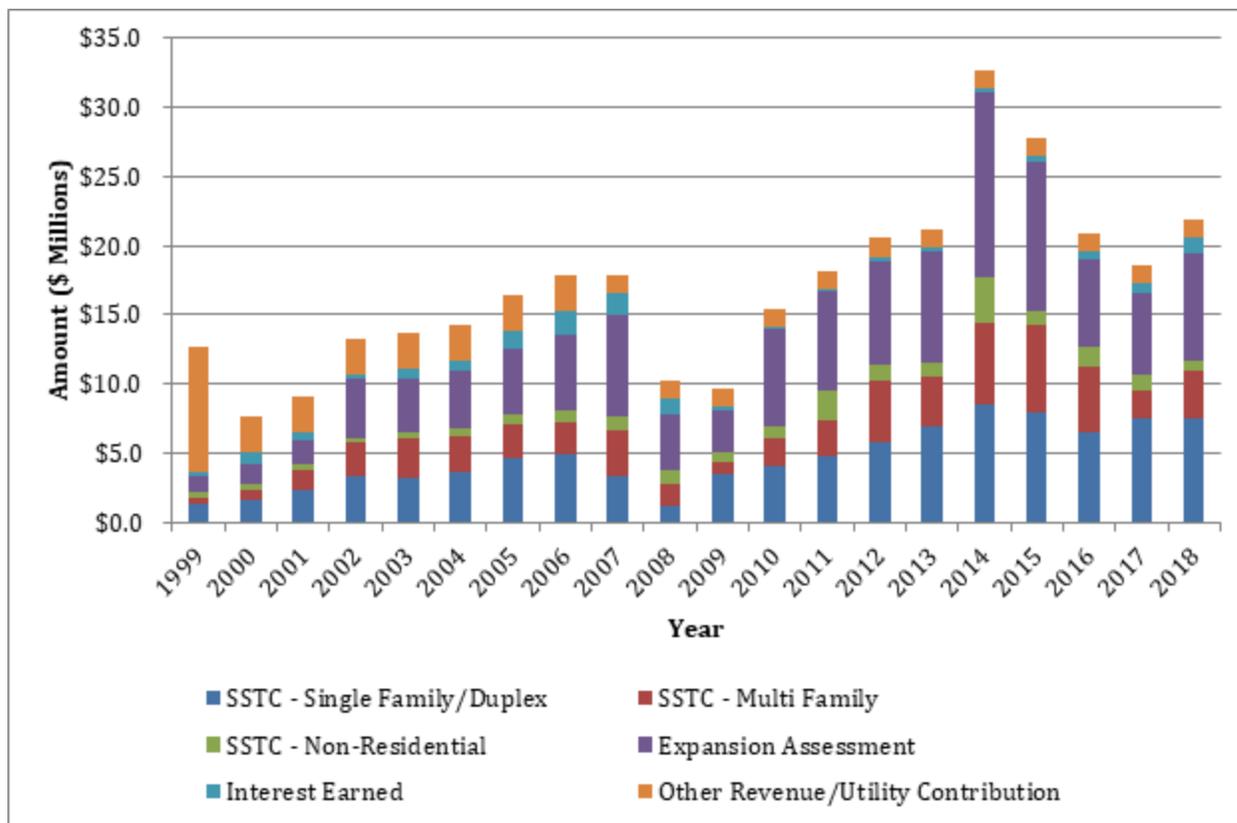


Figure 4 – SSSF Historical Revenue Breakdown

EXPENDITURES:

The largest expenditure item in 2018 was \$8.8 million for the construction of NEST Stage NC2 & NC3. Another \$8.7 million was spent on the construction of SESS Stage SW4, while the remainder was spent on SESS Stages SA1A and SA10A, as well as NEST Stage N1 RTC Gate.

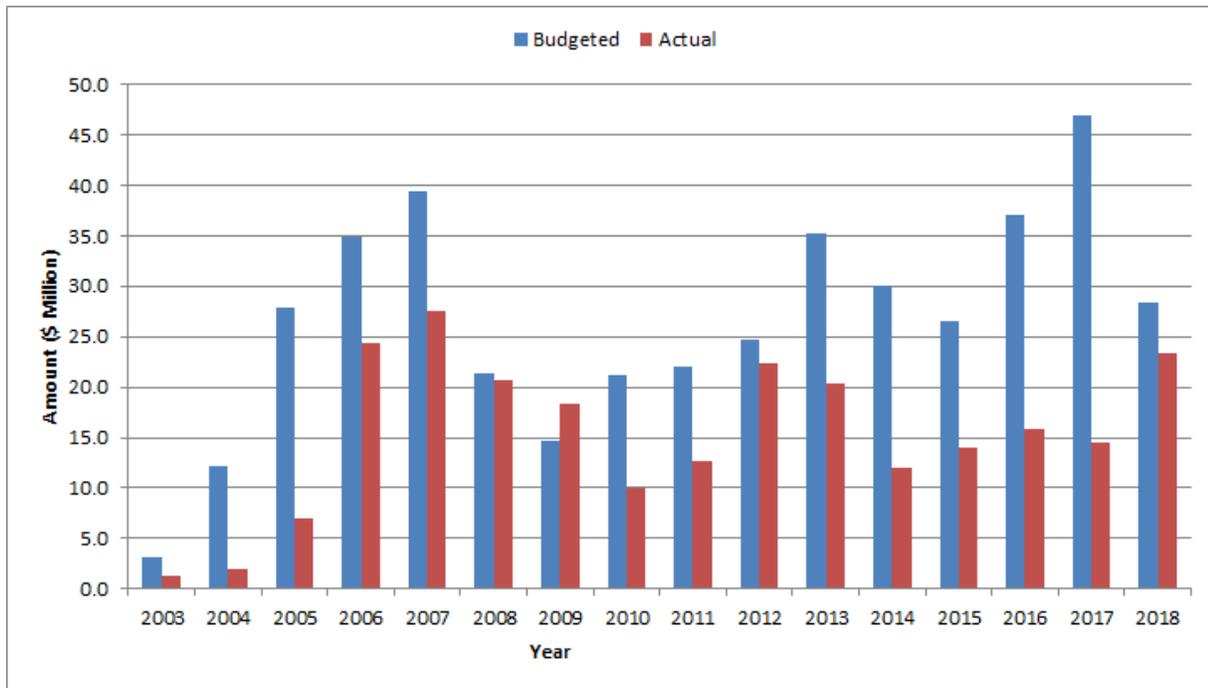


Figure 5 – SSSF Historical Expenditures

As of December 2018, the fund is committed to completing five projects that are currently under construction. The remaining cost for these 5 projects is \$69.5 million which is to be spent over the next four years. The committed cost of \$69.5 million is slightly below the current fund balance of \$70.0 million. The complete expenditure projection can be seen in Table 2.

4.2 Five Year Cash Flow Projection

Table 2 shows the five year revenues and expenditures (2019-2023) projections for the Sanitary Servicing Strategy Fund based on the currently updated financial model.

Revenues

Opening Balance for 2019 - The SSSF closing reserve balance as of December 31, 2018 is \$68.7 million.

Revenues and Expenditures for 2018 – These are based on actual values recorded.

Interest (2019 – 2023) – Interest rate assumed at 1% per annum was used.

Utility Contribution – This amount represents contributions from the Sanitary Utility for diversion of sanitary flows from serviced City lands to the new trunk system constructed under the SSSF. These lands are located in Mill Woods and Castle Downs. The amount is calculated based on an estimate of the SSTC these lands would have to pay. Based on the results of the lot counts conducted in 2000, the Sanitary Utility would make annual contributions of \$2.6 million to the SSSF until 2014. In March 2006, City Council approved the recommendation to change the Utility Contribution amount to \$1.3 million commencing on January 1, 2007. The contributions will be in place until 2024 as per current assessment.

Sanitary Sewer Trunk Charge – The SSTC is collected when an application is made for a development permit or sanitary service connection. This charge applies to all new and re-developments in the City.

The following are the SSTC rates for 2018 and 2019:

<u>Type of Development</u>	<u>2018</u>	<u>2019</u>
Single-family/Duplex Residential	\$1,629/dwelling	\$1,662/dwelling
Secondary, garage & garden suite	\$721/dwelling	\$735/dwelling
Multi-family residential	\$1,163/dwelling	\$1,186/dwelling
Commercial, Industrial & Institutional	\$8,148/ha	\$8,311/ha

Estimated SSTC revenues from 2019 to 2023 were based on the current development growth projections provided by the Urban Form and Corporate Strategic Development Department.

Expansion Assessment - The EA is an area-based assessment that is collected at the time of subdivision, development permit application, or sanitary service connection application. The EA applies to those areas of the City that did not have an approved Neighborhood Structure Plan (NSP) before January 1, 1999.

There was a 2% increase for 2018 revenue rates for both SSTC and EA. The 2018 and 2019 rates are as follows:

<u>Contributing Area</u>	<u>2018</u>	<u>2019</u>
North Edmonton Sanitary Trunk (NEST)	\$23,270/ha	\$23,735/ha
South Edmonton Sanitary Trunk (SESS)	\$23,270/ha	\$23,735/ha
West Edmonton Sanitary Sewer (WESS)	\$29,091/ha	\$29,673/ha

Expenditures

Estimated Construction Costs – Construction cost estimates for 2019 to 2023 were based on the updated segment costs provided as a result of the recent planning studies.

SANITARY SERVICING STRATEGY FUND - 5 YEAR PROJECTION						
All values are in millions of dollars						
	2018 (Actual)	2019	2020	2021	2022	2023
Opening Balance	70.0	68.7	63.4	58.6	48.9	24.8
Total Revenues	21.9	25.2	23.2	23.0	23.2	23.2
Total Expenditures	23.3	30.9	34.0	48.9	63.3	66.0
Closing Reserve Balance	\$ 68.6	\$ 63.0	\$ 52.6	\$ 32.7	\$ 8.8	\$ (18.0)
Construction Costs						
	Total 2019 - 2023	2019	2020	2021	2022	2023
N1 RTC Gate*	0.6	0.6	-	-	-	-
SA10a Including PS & FM*	21.5	11.0	10.5	-	-	-
SW4*	10.3	5.0	5.3	-	-	-
SW1 PS*	3.7	0.3	2.5	0.9	-	-
NC2/NC3*	33.4	12.4	6.4	5.1	9.5	-
NL1 PS Decommissioning	0.8	0.8	-	-	-	-
W3-4-5	57.0	0.4	6.0	16.0	16.0	18.6
SW5	37.9	-	1.5	13.8	15.4	7.2
SA2 Including RTC Gate	32.5	-	1.3	11.5	12.9	6.8
SA5	25.4	-	-	1.0	8.0	16.4
SA6 Including PS	16.0	-	-	-	1.0	15.0
SW6	1.0	-	-	-	-	1.0
SW7	0.5	-	-	-	-	0.5
Preliminary Studies	2.5	0.5	0.5	0.5	0.5	0.5
Total	\$ 243.1	\$ 31.0	\$ 34.0	\$ 48.8	\$ 63.3	\$ 66.0

*Committed costs for projects under construction

Table 2 – Five Year Revenue and Expenditures Projection

For more information, visit our website:

www.edmonton.ca

Inquiries may also be directed to:

The City of Edmonton
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Edmonton, AB
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