



Making a difference...together

**GANGES SEWER LOCAL SERVICE COMMISSION**  
Notice of Meeting on **Tuesday October 27, 2020 at 10:00 am**  
Lions Hall, 103 Bonnett Ave, Salt Spring Island, BC

Gary Holman

Gary Utter

Rod Scotvold

David Toynbee

Mike de Carle

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**AGENDA**

**1. Territorial Acknowledgement / Call Meeting to Order**

**2. Limited Space Meeting Resolution**

That this resolution applies to the Ganges Sewer Local Service Commission for the meeting being held on October 27, 2020, and that the attendance of the public at the place of the meeting will be limited in accordance with the applicable requirements or recommendations under the Public Health Act, despite the best efforts of the Ganges Sewer Commission, because:

- a. The available meeting facilities cannot accommodate more than (30) people in person, including members of Ganges Sewer Commission and staff, and
- b. There are no other facilities presently available that will allow physical attendance of the Ganges Sewer Commission and the public in sufficient numbers; and

That the Ganges Sewer Commission is ensuring openness, transparency, accessibility and accountability in respect of the open meeting by the following means:

- a. By making the meeting agenda, as well as the other relevant documents, available on the CRD website, and directing interested persons to the website by means of the notices provided in respect of the meeting,
- b. By making the minutes of the meeting available on the CRD website following the meeting.

**3. Approval of Agenda**

**4. Approval of Minutes – November 21, 2020**

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**5. Delegations/Presentations**

**6. Chair and Director Reports**

**7. Outstanding Business**

**8. New Business**

5-22

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*To ensure quorum, advise Tracey Shaver 250 537 4448 if you cannot attend.*

**8.1 2021 OPERATING AND CAPITAL BUDGET**

That the Ganges Sewer Local Service Commission:

1. Approve the 2021 operating and capital budget as presented, and recommend that the 2020 actual deficit be balanced on the transfer from the Operating Reserve Fund to the operating budget; and
2. Recommend that the Electoral Area Services Committee recommend that the CRD Board approve the 2021 operating and capital budget and the five year Financial Plan for the Ganges Sewer Local Service as presented;

**9. Next Meeting**

**10. Adjournment**



Making a difference...together

**Minutes of the of the Ganges Sewer Local Service Commission**  
**Held November 21, 2019 at 108 121 McPhillips Ave, Salt Spring Island, BC**

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**DRAFT**

**PRESENT:**

**Commission Members:** Gary Utter, Rod Scotvold, Mike de Carle (via telephone)

**Staff:** Karla Campbell, Senior Manager, SSI Administration; Dan Robson, Manager, Saanich Peninsula and Gulf Islands Operations; All Xu, Manager of Engineering; Lia Xu, Manager Finance Services; Tracey Shaver, Recording Secretary.

**Absent:** David Toynbee, Director Holman

Chair Utter called the meeting to order at 1:02 pm.

**1. Approval of Agenda**

**MOVED** by Commissioner Scotvold, **SECONDED** by Commissioner de Carle,  
That the Ganges Sewer Local Service Commission agenda for November 21, 2019 be approved.

**CARRIED**

**2. Approval of Minutes – August 29, 2019**

**MOVED** by Commissioner de Carle, **SECONDED** by Commissioner Scotvold,  
That the Ganges Sewer Local Service Commission Minutes for August 29, 2019 be approved.

**CARRIED**

**3. Delegations/Presentations - none**

**4. Chair and Director Reports - none**

**5. Outstanding Business**

**6. New Business**

**6.1 2020 OPERATING AND CAPITAL BUDGET**

- Operating costs increased with commissioning of refurbished treatment plant.
- Water, labour and sludge hauling costs increased
- New addition of local operations staff at .5 FTE; salary to be shared across water/sewer utilities
- Details of debt amortization to budget report
- Continue to build reserve funds in preparation for replacement if MBR membranes

**MOVED** by Commissioner de Carle, **SECONDED** by Commissioner Scotvold,  
That the Ganges Sewer Local Service Commission:

1. Approve the 2020 operating and capital budget as presented, and recommend that the 2019 actual surplus or deficit be balanced on the 2019 transfer to the Operating Reserve Fund and the Capital Reserve Fund;

2. Recommend that the Electoral Area Services Committee recommend that the CRD Board approve the 2020 operating and capital budget and the five year Financial Plan for the Ganges Sewer Local Service as presented; and,
3. Approve funding for the emergency outfall repairs in the amount of \$75,000 from the Capital Reserves.

**CARRIED**

7. **Next Meeting** – as necessary

8. **Adjournment**

**MOVED** by Commissioner Scotvold, **SECONDED** by Director Holman,  
That the Ganges Sewer Local Service Commission meeting adjourn at 1:47 pm.

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CHAIR

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SENIOR MANAGER

**REPORT TO GANGES SEWER LOCAL SERVICE COMMISSION  
MEETING OF TUESDAY OCTOBER 27, 2020**

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**SUBJECT     2021 OPERATING AND CAPITAL BUDGET**

**ISSUE**

To present the 2021 operating and capital budget. In accordance with Bylaw No 1906, "Ganges Sewer Local Service Commission Bylaw No. 1, 1991" the Commission's approval of the annual budget is required.

**BACKGROUND**

The Capital Regional District (CRD) is required by legislation under the *Local Government Act* (LGA) to prepare an annual operating and capital budget and a 5-year financial plan including Operating Budgets and Capital Expenditure Plans annually. CRD staff have therefore, prepared the financial plan shown in attachment to this report for the Ganges Sewer Local Service.

The Operating Budget includes the regular annual costs to operate the service. The Capital Expenditure Plan shows the anticipated expenditures for capital additions. These may include purchases of new assets or infrastructure, upgrades or improvements to existing assets or asset review and study work that could potentially lead to future capital improvements.

In preparing the Operating Budget, CRD staff took into account:

1. Actual expenditures incurred between 2018 and 2020
2. Anticipated changes in level of service (if any)
3. Maximum allowable tax requisition
4. Annual Cost per taxpayer and per SFE

Factors taken into consideration in the preparation of the Capital Expenditure Plan included:

1. Available funds on hand
2. Projects already in progress
3. Condition of existing assets and infrastructure
4. Regulatory, environmental and health and safety factors.

Adjustments for surpluses or deficits from 2020 may be made in January 2021. The CRD Board will give final approval to the budget and financial plan in March 2021.

The Financial Plan for the years 2022 – 2025 may be changed in future years.

**BUDGET OVERVIEW**

***Operating Budget***

It is projected that the 2020 operating expenses will be approximately \$46,461 over budget. Factors contributing to being over budget include emergency response and corrective maintenance primarily due to the following events:

- Additional sludge hauling and disposal costs due to challenges with the operation of the sludge thickening system.
- Wastewater treatment facility railing system corrective maintenance (repairs).
- Wastewater treatment facility potable water service line corrective maintenance.
- Harbour House Pump Station pumps corrective maintenance.
- Emergency response to SCADA system failure.

It is projected that the 2020 operating revenue will be on budget.

As a result there is an operating deficit of approximately \$45,761 projected for the service.

In order to balance the 2020 operating budget, CRD staff recommend that a transfer from the Operating Reserve Fund to the operating budget in the amount of the projected deficit be approved.

The 2021 operating budget for regular annual operating costs has been increased by 3.0%. The increase is primarily due to inflation and an increase in labour charges to account for Salt Spring Island Engineering and Administration support.

### ***Municipal Finance Authority (MFA) Debt***

Loan Authorization Bylaw 4007 to borrow \$3,900,000 was approved and adopted in 2015 for *Ganges Sewer Rehabilitation* Project. Table 1 summarizes the detailed information for existing MFA debt issues related to LA4007.

**Table 1 – Existing Debt Summary**

<i>MFA Issues</i>	<i>Term</i>	<i>Borrowing Year</i>	<i>Retirement Year</i>	<i>Refinance Year</i>	<i>Interest Rate</i>	<i>Principal</i>	<i>Principal Payment</i>	<i>Interest Payment</i>	<i>Total Annual Debt Cost</i>
LA4007-139	20	2016	2036	2026	2.10%	\$350,000	\$13,026	\$7,350	\$20,375
LA4007-142	25	2017	2042	2027	3.15%	\$1,500,000	\$41,142	\$47,250	\$88,392
LA4007-146	20	2018	2038	2028	3.20%	\$1,800,000	\$66,988	\$57,600	\$124,588
LA4007-149	25	2019	2044	2029	2.24%	\$250,000	\$6,857	\$5,600	\$12,457
<b>Total</b>						<b>\$3,900,000</b>	<b>\$128,013</b>	<b>\$117,800</b>	<b>\$245,813</b>

### ***Operating Reserve Fund***

The Operating Reserve Fund is used to undertake maintenance activities that typically do not occur on an annual basis. Typical maintenance activities include outfall inspection, treatment facility tank draining/cleaning/inspection and sanitary sewer collection system jet hydro flushing and manhole inspections. The operating reserve also funds the procurement of small equipment and supplies that are not purchased on an annual basis. Additionally, the operating reserve could be used for emergency unplanned repairs.

It is proposed that transfers to the Operating Reserve Fund be increased by \$470 in 2021 core budget to ensure future maintenance activities are fully funded while maintaining an appropriate minimum balance in the reserve.

In addition, it is proposed that an ongoing supplementary annual \$40,000 contribution be made to the reserve to fund the replacement of the treatment process membranes at the end of their

service life. The membranes were installed in 2018 and with a life expectancy of 8-10 years the first replacement will be planned for 2028 at a cost of approximately \$500,000 for all 6 cartridges.

There is \$120,000 of planned maintenance to be funded by the operating reserve over the next five years.

The operating reserve balance at the end of 2020 is projected to be approximately \$23,328.

### ***Capital Reserve Fund***

The Capital Reserve Fund is to be used to pay for capital expenditures that are not funded by other sources such as grants, operating budget or debt.

It is proposed that the 2021 transfer to the Capital Reserve Fund be \$50,000.

The balance of the reserve at the end of 2020 is projected to be approximately \$705,652 with estimated project surplus return from completed projects.

The Reserve Fund balance used to fund costs resulting from expansion of service is \$65,504.

The combined balance for the two Reserve Funds at the end of 2020 is \$771,156.

### ***Capital Expenditure Plan***

The 5-year plan includes \$1,089,000 of expenditures to be funded from the Capital Reserve Fund or grant.

The following new projects or budget amendments were added to the 2021 five year capital plan:

1. Budget amended for the upgrade of SCADA to hot-standby system. The windows based SCADA computers can fail unexpectedly which presents a large operational risk to rely on a stand-alone computer to operate a major water/waste water treatment plant. Additional \$6,500 is required for due to manufacturer licensing fee increases. The total budget is increased from \$13,500 to \$20,000.
2. Strategic Asset Management Plan - \$50,000 (2022). This service has no up-to-date asset management plan. This project is to assess asset condition, develop inventory and prepare recommendations with regard to capital and maintenance work for the asset.
3. Reclaimed Water Study - \$57,500 (2021). This project is to conduct a Feasibility study, identify infrastructure and regulatory requirements and develop conceptual plan and cost estimated for the use of reclaimed water.
4. Installation of VFD for equalization tank pumps to equalize feed rate for the plant - \$50,000 (2021).

### ***Capital Project Fund***

As specific capital projects are approved, the funding revenues for them are transferred into this Capital Project Fund from the Capital Reserve Fund. Any funds remaining upon completion of a project are transferred back to the Capital Reserve Fund for use on future capital projects. Project CE. 555 Replacement of Emergency Generator is completed and the remaining funds of \$18,912 will be returned back to Capital Reserve Fund. Project 699.4507 Safe Work Procedures is completed and the remaining funds of \$211 will be returned back to Capital Reserve Fund.

### ***User Charge and Parcel Tax***

The user charge and parcel tax fund the service. Residential, institutional and commercial properties within the service area pay the annual user charge and the parcel tax.

Table 2 summarizes 2021 over 2020 changes for parcel tax and user fee of residential customer.

**Table 2 – Parcel Tax and User Charge Summary**

<i>Budget Year</i>	<i>Parcel Tax</i>	<i>Taxable Folios Numbers</i>	<i>Parcel Tax per Folio*</i>	<i>User Charge</i>	<i>SFE Numbers</i>	<i>User Charge per SFE</i>	<i>Parcel Tax &amp; User Charge</i>
<b>2020</b>	\$54,128	416	\$136.95	\$922,221	588	\$723.55	<b>\$860.50</b>
<b>2021</b>	\$57,000	416	\$144.21	\$1,000,303	591	\$799.66	<b>\$943.87</b>
<b>Change (\$)</b>	\$2,872	0	\$7.27	\$38,082	3	\$76.11	<b>\$83.37</b>
<b>Change (%)</b>	5.31%	0.00%	5.31%	8.47%	0.50%	10.52%	<b>9.69%</b>

\* Includes the 5.25% admin fee charged by the Ministry of Finance (not CRD revenue)

### **RECOMMENDATION**

That the Ganges Sewer Local Service Commission:

1. Approve the 2021 operating and capital budget as presented, and recommend that the 2020 actual deficit be balanced on the transfer from the Operating Reserve Fund to the operating budget; and
2. Recommend that the Electoral Area Services Committee recommend that the CRD Board approve the 2021 operating and capital budget and the five year Financial Plan for the Ganges Sewer Local Service as presented;

Submitted by	Karla Campbell, Senior Manager, Salt Spring Island Electoral Area
Submitted by	Matthew McCrank, MSc., P.Eng., Senior Manager, Infrastructure Operations
Submitted by	Rianna Lachance, BCom, CPA, CA, Senior Manager, Financial Services
Concurrence	Ted Robbins, B.Sc., C.Tech., General Manager, Integrated Water Services
Concurrence	Robert Lapham, MCIP, RPP, Chief Administrative Officer

MMc/:ts

Attachment: [2021 Ganges Sewer Service Budget](#)



attachment

# **CAPITAL REGIONAL DISTRICT**

## **2021 Budget**

### **Ganges Sewer (SSI)**

#### **Commission Review**

**Service:**     **3.810 Ganges Sewer Utility (SSI)**

**Committee: Electoral Area**

**DEFINITION:**

To provide, operate and maintain sewage collection treatment and disposal facilities in the Ganges area on Salt Spring Island (Letters Patent - March, 1978; Bylaw No. 492, 1978) Local Service Conversion Bylaw No. 1923, July 12, 1991

**PARTICIPATION:**

Ganges - C(764) LSA#10

**MAXIMUM LEVY:**

Greater of \$270,000 or \$7.46 / \$1,000 on actual assessed value of land and improvements. To a maximum of \$2,353,884.

**MAXIMUM CAPITAL DEBT:**

Authorized: (A Bylaw 4007, Aug 12, 2015)	\$3,900,000
Borrowed:	\$3,900,000
Remaining	\$0

**COMMISSION:**

Ganges Sewer Local Services Committee established by Bylaw No. 1906, April 24, 1991

**FUNDING:**

Any deficiencies after user charge and/or frontage tax or parcel tax to be levied on taxable school assessments, excluding all the property of BC Hydro and Power Authority.

**User Charge:**               Based on water consumption billed annually to properties connected to the system

**Parcel Tax:**                Annual charge based only on properties capable of being connected to system

**Connection Charge:**     Based on actual cost.

**RESERVE FUND:**

Bylaw No. 3125 (November 26, 2003)

**3.810 - Ganges Sewer (SSI)**

	2020		BUDGET REQUEST				FUTURE PROJECTIONS			
	BOARD BUDGET	ESTIMATED ACTUAL	CORE BUDGET	ONGOING	ONE-TIME	TOTAL	2022	2023	2024	2025
<u>OPERATING COSTS</u>										
Sludge Hauling Contracts	29,000	33,000	29,490	-	-	29,490	30,080	30,680	31,290	31,920
Screenings, Grit & Waste Sludge Disposal	122,300	134,100	124,380	-	-	124,380	126,870	129,400	131,980	134,620
Repairs & Maintenance	12,900	11,800	13,140	-	-	13,140	23,410	93,680	43,960	14,240
Allocations	39,677	39,677	39,332	-	-	39,332	40,960	41,665	42,385	43,119
Electricity	62,000	59,000	63,050	-	-	63,050	64,310	65,600	66,910	68,250
Water	4,850	7,500	7,600	-	-	7,600	7,750	7,910	8,070	8,230
Supplies	15,630	17,085	15,890	-	-	15,890	16,210	16,540	16,870	17,210
Labour Charges	358,591	374,796	373,688	-	-	373,688	381,601	389,242	397,035	404,986
Other Operating Expenses	29,060	43,510	27,940	-	-	27,940	28,470	29,020	29,590	30,160
<b>TOTAL OPERATING COSTS</b>	<b>674,008</b>	<b>720,468</b>	<b>694,510</b>	<b>-</b>	<b>-</b>	<b>694,510</b>	<b>719,661</b>	<b>803,737</b>	<b>768,090</b>	<b>752,735</b>
*Percentage Increase over prior year						3.0%	3.6%	11.7%	-4.4%	-2.0%
Transfer from Operating Reserve Fund	-	(46,461)	-	-	-	-	(10,000)	(80,000)	(30,000)	-
<b>NET OPERATING COSTS</b>	<b>674,008</b>	<b>674,007</b>	<b>694,510</b>	<b>-</b>	<b>-</b>	<b>694,510</b>	<b>709,661</b>	<b>723,737</b>	<b>738,090</b>	<b>752,735</b>
Percentage Increase over prior year						146.1%				
<u>DEBT / RESERVES</u>										
Transfer to Operating Reserve Fund	27,700	27,700	28,170	40,000	-	68,170	69,530	70,920	72,340	73,790
Transfer to Capital Reserve Fund	30,000	30,000	50,000	-	-	50,000	60,000	60,000	60,000	60,000
MFA Principal Payment	128,013	128,013	128,013	-	-	128,013	128,013	128,013	128,013	128,013
MFA Interest Payment	117,800	117,800	117,800	-	-	117,800	117,800	117,800	117,800	117,800
MFA Debt Reserve Fund	540	540	880	-	-	880	880	880	880	880
<b>TOTAL DEBT / RESERVES</b>	<b>304,053</b>	<b>304,053</b>	<b>324,863</b>	<b>40,000</b>	<b>-</b>	<b>364,863</b>	<b>376,223</b>	<b>377,613</b>	<b>379,033</b>	<b>380,483</b>
<b>TOTAL COSTS</b>	<b>978,061</b>	<b>978,060</b>	<b>1,019,373</b>	<b>40,000</b>	<b>-</b>	<b>1,059,373</b>	<b>1,085,884</b>	<b>1,101,350</b>	<b>1,117,123</b>	<b>1,133,218</b>
<u>FUNDING SOURCES (REVENUE)</u>										
User Charges	(922,221)	(922,220)	(960,303)	(40,000)	-	(1,000,303)	(1,024,794)	(1,037,240)	(1,049,993)	(1,060,880)
Other Revenue	(1,712)	(1,712)	(2,070)	-	-	(2,070)	(2,090)	(2,110)	(2,130)	(2,150)
<b>TOTAL REVENUE</b>	<b>(923,933)</b>	<b>(923,932)</b>	<b>(962,373)</b>	<b>(40,000)</b>	<b>-</b>	<b>(1,002,373)</b>	<b>(1,026,884)</b>	<b>(1,039,350)</b>	<b>(1,052,123)</b>	<b>(1,063,030)</b>
<b>REQUISITION</b>	<b>(54,128)</b>	<b>(54,128)</b>	<b>(57,000)</b>	<b>-</b>	<b>-</b>	<b>(57,000)</b>	<b>(59,000)</b>	<b>(62,000)</b>	<b>(65,000)</b>	<b>(70,188)</b>
*Percentage increase over prior year										
User Fee						8.5%	2.4%	1.2%	1.2%	1.0%
Requisition						5.3%	3.5%	5.1%	4.8%	8.0%
<b>Combined</b>						<b>8.3%</b>	<b>2.5%</b>	<b>1.4%</b>	<b>1.4%</b>	<b>1.4%</b>

**Ganges Sewer (SSI)**  
**Reserve Summary Schedule**  
**2021 - 2025 Financial Plan**

**Reserve/Fund Summary**

	<b>Estimated</b>	<b>Budget</b>				
	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>
Total Capital Reserve Fund	771,156	497,156	97,156	157,156	192,156	252,156
Operating Reserve Fund	23,328	91,498	151,028	141,948	184,288	258,078
<b>Total</b>	<b>794,484</b>	<b>588,654</b>	<b>248,184</b>	<b>299,104</b>	<b>376,444</b>	<b>510,234</b>

## Reserve Schedule

### Reserve Fund: 3.810 Ganges Sewer (SSI) - Capital Reserve Fund #1 - Bylaw 3125

For capital repairs, additions and improvements to sewage system infrastructure

## Reserve Cash Flow

Fund: Fund Centre:	1056 101836	Estimated*	Budget				
		2020	2021	2022	2023	2024	2025
Beginning Balance		689,759	705,652	431,652	31,652	91,652	126,652
Transfer from Ops Budget		30,000	50,000	60,000	60,000	60,000	60,000
Transfer from Cap Fund		19,123	-	-	-	-	-
Transfer to Cap Fund		(43,500)	(324,000)	(460,000)	-	(25,000)	-
Interest Income*		10,270	-	-	-	-	-
Ending Balance \$		705,652	431,652	31,652	91,652	126,652	186,652

### Assumptions/Background:

\* Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.

### Reserve Schedule

#### Reserve Fund: 3.810 Ganges Sewer (SSI) - Capital Reserve Fund #2 - Bylaw 3125

For capital repairs, additions and improvements to sewage system infrastructure

### Reserve Cash Flow

Fund: Fund Centre:	1056 101900	Estimated	Budget				
		2020	2021	2022	2023	2024	2025
Beginning Balance		64,524	65,504	65,504	65,504	65,504	65,504
Transfer from Ops Budget		-	-	-	-	-	-
Transfer from Cap Fund		-	-	-	-	-	-
Transfer to Cap Fund		-	-	-	-	-	-
Interest Income		980	-	-	-	-	-
Ending Balance \$		65,504	65,504	65,504	65,504	65,504	65,504

#### Assumptions/Background:

For use only to fund costs resulting from expansion of service

## Reserve Schedule

### Reserve Fund: 3.810 Ganges Sewer (SSI) - Operating Reserve Fund - Bylaw 4144

Reserve fund used for: unforeseen operational repairs and maintenance; infrequent maintenance activities such as treatment facility tank cleaning and inspection, collection system flushing and inspection, outfall inspection etc. Optimum minimum balance of \$50,000 (approximately 10%) of the annual operating budget.

## Reserve Cash Flow

Fund: Fund Centre:	1500 105210	Estimate	Budget				
		2020	2021	2022	2023	2024	2025
Beginning Balance		41,359	23,328	91,498	151,028	141,948	184,288
Transfer from Ops Budget		27,700	68,170	69,530	70,920	72,340	73,790
Expenditures		(46,461)	-	(10,000)	(80,000)	(30,000)	-
Planned maintenance activity				Outfall Inspection	Sanitary sewer flushing and inspecitons	WWTP tank draining, cleaning and inspection	
Interest Income		730	-	-	-	-	-
Ending Balance \$		23,328	91,498	151,028	141,948	184,288	258,078

### Assumptions/Background:

Membrane replacement at \$500K every 10 years = \$50k/yr

\* Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.

**CAPITAL REGIONAL DISTRICT**  
**FIVE YEAR CAPITAL EXPENDITURE PLAN SUMMARY - 2021 to 2025**

<b>Service No.</b>	<b>3.810</b>	<b>Carry</b>						
	<b>Ganges Sewer Utility (SSI)</b>	<b>Forward from</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>TOTAL</b>
		<b>2020</b>						

**EXPENDITURE**

Buildings	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$106,500	\$550,000	\$0	\$25,000	\$0	\$681,500
Land	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Engineered Structures	\$0	\$357,500	\$50,000	\$0	\$0	\$0	\$407,500
Vehicles	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>\$0</b>	<b>\$464,000</b>	<b>\$600,000</b>	<b>\$0</b>	<b>\$25,000</b>	<b>\$0</b>	<b>\$1,089,000</b>

**SOURCE OF FUNDS**

Capital Funds on Hand	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Debenture Debt (New Debt Only)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equipment Replacement Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Grants (Federal, Provincial)	\$0	\$140,000	\$140,000	\$0	\$0	\$0	\$280,000
Donations / Third Party Funding	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Reserve Fund	\$0	\$324,000	\$460,000	\$0	\$25,000	\$0	\$809,000
	<b>\$0</b>	<b>\$464,000</b>	<b>\$600,000</b>	<b>\$0</b>	<b>\$25,000</b>	<b>\$0</b>	<b>\$1,089,000</b>



Service #:	3.810
Service Name:	Ganges Sewer Utility (SSI)

CAPITAL BUDGET FORM  
2021 & Forecast 2022 to 2025

**Proj. No.**  
The first two digits represent first year the project was in the capital plan.

<u>Capital Exp. Type</u>
<b>Study</b> - Expenditure for feasibility and business case report.
<b>New</b> - Expenditure for new asset only
<b>Renewal</b> - Expenditure upgrades an existing asset and extends the service ability or enhances technology in delivering that service
<b>Replacement</b> - Expenditure replaces an existing asset

**Funding Source Codes**  
Debt = Debenture Debt (new debt only)  
ERF = Equipment Replacement Fund  
Grant = Grants (Federal, Provincial)  
Cap = Capital Funds on Hand  
Other = Donations / Third Party Funding

**Funding Source Codes (con't)**

Res = Reserve Fund

STLoan = Short Term Loans

WU - Water Utility

**Asset Class**

- L** - Land
- S** - Engineering Structure
- B** - Buildings
- V** - Vehicles

**Capital Project Title**  
Input Title of Project. For example "Asset Name - Roof Replacement", "Main Water Pipe Replacement".

**Capital Project Description**

Briefly describe project scope and service benefits.

For example: *"Full Roof Replacement of a 40 year old roof above the swimming pool area; The new roofing system is built current energy standards, designed to minimize maintenance and have an expected service life of 35 years".*

**Total Project Budget**

This column represents the total project budget not only within the 5-year window.

[illegible]

Service: 3.810

Ganges Sewer Utility (SSI)

Proj. No. 19-03

Capital Project Title Ganges WWTP Storage

Capital Project Description Concept Design for Storage at Ganges WWTP

Asset Class S

Board Priority Area 0

Corporate Priority Area 0

Project Rationale Windows based SCADA computers can fail unexpectedly- this presents a large operational risk to rely on a stand-alone computer to operate a major water/waste water treatment plant.

Proj. No. 20-01

Capital Project Title SCADA upgrade

Capital Project Description Upgrade SCADA to hot-standby system

Asset Class E

Board Priority Area 0

Corporate Priority Area 0

Project Rationale Windows based SCADA computers can fail unexpectedly- this presents a large operational risk to rely on a stand-alone computer to operate a major water/waste water treatment plant.

Proj. No. 21-01

Capital Project Title Strategic Asset Management Plan

Capital Project Description Identify condition of assets, develop prioritized list of infrastructure replacement

Asset Class S

Board Priority Area 0

Corporate Priority Area 0

Project Rationale 0

Proj. No. 21-02

Capital Project Title Reclaimed Water Study

Capital Project Description Feasibility study, identify infrastructure and regulatory requirements and develop conceptual plan and cost estimated for use reclaimed water

Asset Class S

Board Priority Area 0

Corporate Priority Area 0

Project Rationale 0

Proj. No. 21-03

Capital Project Title VFD installation for EQ Tank

Capital Project Description Installation of VFD for EQ pumps to equalize feed rate for the plant

Asset Class S

Board Priority Area 0

Corporate Priority Area 0

Project Rationale Current pumps in the Equalization tank are stop when the flow in Bioreactor is high. VFD equipped pumps can better regulate the flow rate for the plant.

Proj. No.	21-04	Capital Project Title	Ganges WWTP Lab Room, Crew Room and blower room design	Capital Project Description	Detailed Design for lab and crew room/facility and Blower room expansion for Ganges WWTP
Asset Class	S	Board Priority Area	0	Corporate Priority Area	0
Project Rationale		0			

  

Proj. No.	21-05	Capital Project Title	Construction of WWTP Chemical storage, lab, crew room facilities	Capital Project Description	Construction of chemical storage, lab, crew room facilities
Asset Class	S	Board Priority Area	0	Corporate Priority Area	0
Project Rationale		0			

  

Proj. No.	23-01	Capital Project Title	Compressor replacment	Capital Project Description	Replacement of compressors that are near end of life
Asset Class	E	Board Priority Area	0	Corporate Priority Area	0
Project Rationale		0			

  

Proj. No.	24-01	Capital Project Title	Electrical upgrdes -lighting and HMI	Capital Project Description	Installation of additional lighting and HMI upgrade
Asset Class	E	Board Priority Area	0	Corporate Priority Area	0
Project Rationale		0			

### 3.810 - Ganges Sewer (SSI)

#### Capital Projects Fund

Updated @ Oct 05, 2020

Year	Project#	Status	Capital Project Description	Total Project Budget	Expenditure Actuals	Remaining Funds	Funding Source			Total Funding in Place	Return Project Surplus After Completion***	
							CRF*	CWF**	Debt		CRF*	CWF**
2016	CE.476	Close at YE	Ganges Sewer Rehabilitation	3,900,000	3,805,008	94,992	-	-	3,900,000	3,900,000		-
2016	CE.555	Close	Replace Emergency Generator	165,000	146,088	18,912	165,000	-	-	165,000	18,912	-
2019	CE.699.4507	Close	Safe Work Procedures	7,000	6,789	211	7,000	-	-	7,000	211	-
2020	CE.711.700	Open	Upgrade SCADA	13,500	636	12,865	13,500	-	-	13,500	-	-
2020	CE.714.8300	Open	Ganges WWTP Storage	30,000	11,479	18,521	30,000	-	-	30,000	-	-
			<b>Totals</b>	<b>4,115,500</b>	<b>3,969,999</b>	<b>145,501</b>	<b>215,500</b>	<b>-</b>	<b>3,900,000</b>	<b>4,115,500</b>	<b>19,123</b>	<b>-</b>

\* CRF (Capital Reserve Fund)

\*\* CWF (Community Works Fund)

\*\*\* Actual project surplus will be finalized at 2020 year end

Service:

3.810 Ganges Sewer (SSI)

Committee: Electoral Area

<u>Year</u>	<u>Taxable Folios</u>	<u>Parcel Tax</u>	<u>Residential</u>			<u>Actual Assessments \$(000's)</u>
			<u>SFE's</u>	<u>User Charge</u>	<u>Tax &amp; Charges</u>	
2010	381	\$118.04	565	\$388.26	\$506.30	213,514.92
2011	382	\$118.04	567	\$388.26	\$506.30	219,116.95
2012	408	\$118.04	567	\$420.99	\$539.03	213,020.11
2013	415	\$118.00	570	\$408.51	\$526.51	221,912.78
2014	419	\$127.99	584	\$405.04	\$533.03	224,107.72
2015	419	\$136.07	584	\$401.66	\$537.73	218,850.27
2016	419	\$135.97	583	\$522.98	\$658.95	225,589.00
2017	418	\$136.30	583	\$651.80	\$788.10	239,471.00
2018	418	\$136.30	583	\$721.61	\$857.91	269,119.98
2019	418	\$136.30	586	\$751.31	\$887.61	289,639.03
2020	416	\$136.95	588	\$723.55	\$860.50	315,534.00
2021	416	\$144.21	591	\$799.66	\$943.87	

**Change from 2020 to 2021**

\$7.27	\$76.11	\$83.37
5.31%	10.52%	9.69%

Ganges Sewer (SSI)  
Funding Analysis 2021 - 2025

