



MUNICIPALITY OF GREENSTONE

2024 RATE SUPPORTED WATER & WASTEWATER BUDGET

NOVEMBER 27, 2023



2024 RATE SUPPORTED WATER & WASTEWATER BUDGET

The Rate Supported Water & Wastewater budget comprises the operating and capital budgets for the delivery of water and wastewater services to the settlement areas of Greenstone. There are five drinking water systems (or ‘water systems’) and five sewer or wastewater systems administered by Greenstone (also “the Municipality”), an extraordinarily large infrastructure for a population of approximately 4300 persons.

There is a detailed discussion of the five water systems in the Greenstone Drinking Water Systems Financial Plan (Water Financial Plan), available on the Municipal Website. The water and sewer/wastewater systems may also be termed the ‘rate supported systems’ and the ‘rate supported budget’. The stormwater infrastructure and the sludge beds are also included in the wastewater budget. Landfill is excluded and is budgeted under the tax levy supported budget under the Public Services department.

LEGISLATIVE ENVIRONMENT

Drinking water and wastewater systems are highly regulated. The legislative requirements come from water system related legislation, asset management legislation, development charge legislation if a municipality has development charges, the AMO agreement for the Canada Community-Building Fund (formerly Federal Gas Tax) funding, and environmental protection legislation.

The legislative requirement for water systems is detailed in the Water Financial Plan document. Suffice it to say that a water financial plan is a legislative requirement and that the legislation is complex. The plan must be for a period of six years, although ten years is used as a planning horizon and covers all related costs and revenues including source water protection.

The asset management legislation is primarily the Infrastructure for Jobs and Prosperity Act or IJPA and its enabling Ontario Regulation (O. Reg.) 588/17. The legislation requires a 10-year financial plan, currently for core assets including water and wastewater, and for all assets by July 2024. The plan is required to provide for lifecycle maintenance and replacement for the appropriate assets and asset classes.

Municipal corporations and directors and officers of municipal corporations have considerable legislated responsibilities under a number of provincial and federal environmental protection acts. The legislative provision may be termed fiduciary responsibility or duty of care. Liability for adverse events is substantial for municipalities and potentially for its officers and directors that include Council and senior management.

WATER AND WASTEWATER ADMINISTRATION IN GREENSTONE

Greenstone currently utilizes the services of the Ontario Clean Water Agency (OCWA) to manage its water and wastewater systems. OCWA manages over 820 treatment systems for more than 180 system owners (OCWA Website). OCWA provides the day-to-day operation for all the Greenstone systems and undertakes capital projects throughout the year. Greenstone staff have worked closely with OCWA to develop the annual operating and 10-year capital plans.

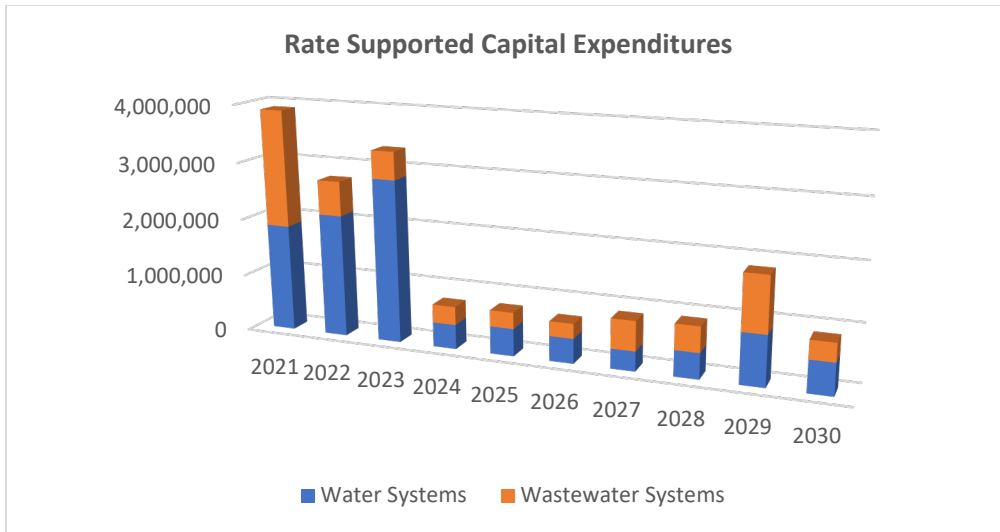
WATER AND WASTEWATER FINANCIAL PLANNING

In 2021, Greenstone engaged OCWA to complete a Water Financial Plan, and subsequently, a 10-year Water and Sewer Rate Study. The rate study builds on the water financial plan and includes wastewater/sewer operating and facility/equipment related capital. The objective of the rate study is to model scenarios that would lead to sustainable water and wastewater treatment systems over a 10-year period and presumably thereafter by creating water and wastewater reserves. Currently there are no dedicated water and wastewater reserves and limited general capital reserves.

The water and wastewater systems (treatment, distribution/collection) require a contribution from the tax levy each year to meet the annual operational and capital requirements. That means that the users of these services do not pay the full cost of the service and that the service is subsidized by every taxpayer in the Municipality. The objective of the rate study was to find one or more scenarios that bring the environmental services to be self-sustaining at the earliest reasonable opportunity and create reserves that allow the systems to be more sustainable in the longer-term, again in accordance with the legislation and lifecycle maintenance.

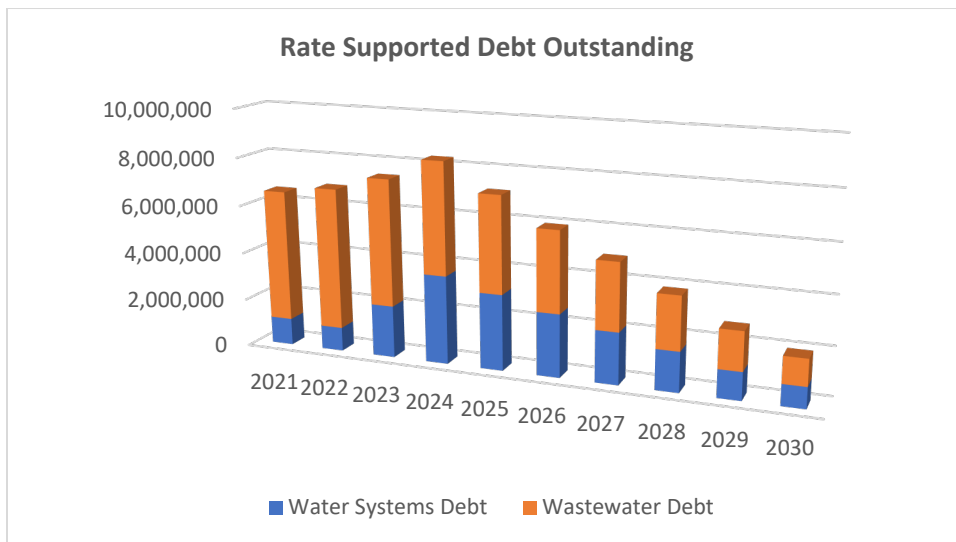
The rate study projected approximately \$1.04 million of water treatment system capital expenditures over a ten-year period with the most significant portion in the first five years, that is, 2021-2025. The study provides similar capital projection for wastewater treatment of approximately \$620,000 annually, with the greatest amount in the first five years. Figure 1 provides an illustration of the annual capital expenditures:

Figure 1



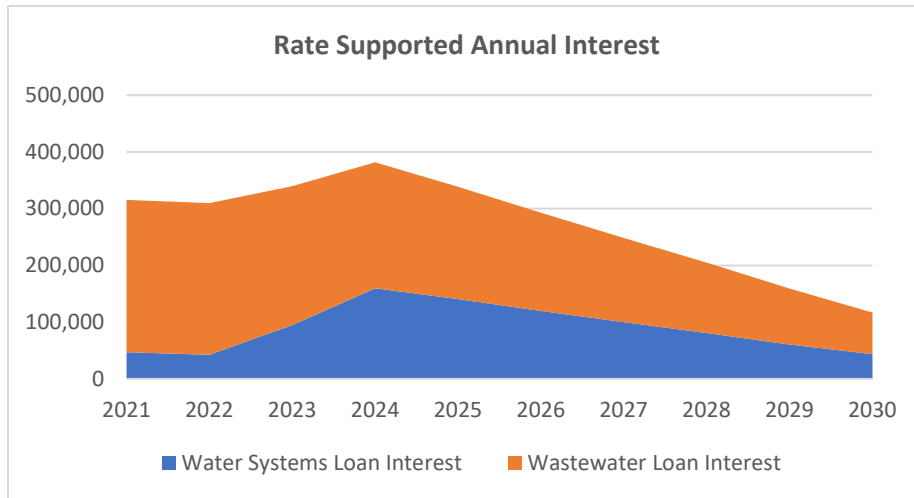
Because the Municipality has no dedicated reserves, large water and wastewater capital projects are anticipated to be funded by debt. The Municipality will apply for infrastructure grants wherever possible but for the purposes of this budget, it is assumed that high priority projects will proceed regardless of grant funding success. The wastewater source table assumes debt for the Nakina & Longlac STP Dechlorination project (to be completed in 2024) however this project is being fully funded from user fees levied between 2022 and 2024. Figure 2 following, from Tables 3A and 6A of the rate study, indicates the rate supported debt principal balance by year.

Figure 2



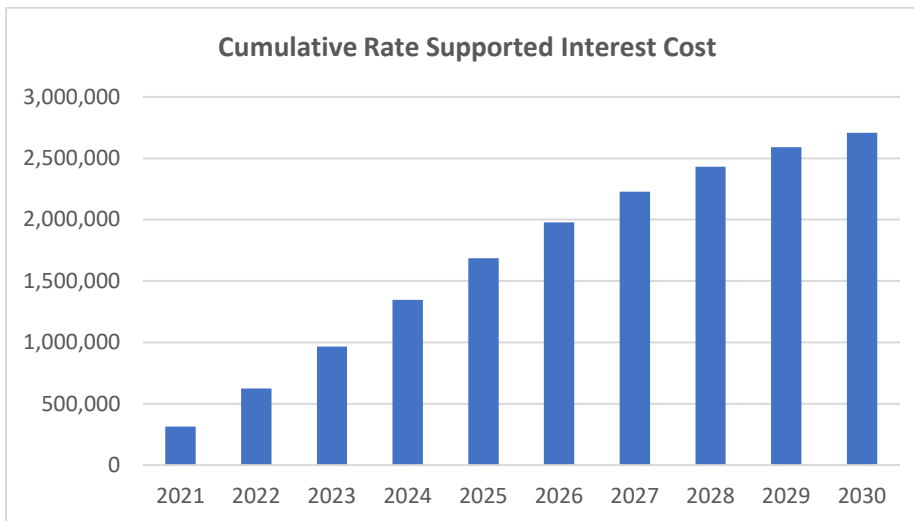
When debt is utilized to fund capital, there is of course an interest cost associated with the debt. Figure 3 shows the Rate Supported Annual Interest.

Figure 3



The Cumulative Rate Supported Interest Cost of **\$2.7 million** over 10-years, is shown in Figure 4 below:

Figure 4



The rate supported interest cost must also be considered in conjunction with the overall municipal debt burden. By virtue of Provincial regulation, municipalities are subject to an absolute limit with respect to the amount of debt repayment burden that may be assumed. The Annual Repayment Limit (ARL) is calculated from the Financial Information Return (FIR) filed by each municipality annually.

It is important to recognize that Greenstone is currently carrying debt and expected to become highly leveraged over the next three to five years. Every increase in debt burden reduces the financial options available and increases the debt servicing or repayment cost on an annual basis.

RATE SUPPORTED WATER AND WASTEWATER SYSTEMS RESERVE STRATEGY

Reserves provide many options:

1. Capacity to avoid or diminish the use of debt for future projects and reducing the cost of debt financing over time.
2. Contingency for unexpected capital expenditures
3. Contingency for project cost increments includes projects already funded by grants or debt where an increase in funding is difficult or not possible
4. Rate ‘smoothing’ to provide small annual adjustments by drawing from reserves as a supplement to or avoiding a tax levy supported contribution to the rate-based budget
5. Ensuring that the users of the environmental services pay for the full cost of the services by utilizing reserve contributions for capital projects rather than a tax levy contribution.

The Water and Sewer Rate Study assumes an objective of creating a reserve of at least \$1.5 million for each of the water and wastewater systems financial plan. These are discretionary reserves which means there is flexibility in setting the target amounts of the reserve over time and the evaluation of long-term needs based on asset management. An objective of \$1.5 million is estimated from the experience of current large capital project costs.

As indicated in the scenarios, capital reserve accumulation largely commences in the last four years of the ten-year study, leaving the municipality somewhat exposed to unexpected expenditures in the next five years.

WATER AND WASTEWATER RATE ANALYSIS

The Water and Sewer Rate Study provided four rate options for the consideration of Council. Ultimately, Council decided to implement Scenario 4: Moderated Rate Increases, that established an annual rate increase of 5% for the term of the study period (2021-2030). For the period from 2021 to 2026 there is a projected contribution from the tax levy of approximately \$3.47 million for water and wastewater services as shown in the table below.

2021	\$ 391,063
2022	\$ 714,733
2023	\$ 718,989
2024 (budgeted)	\$ 656,750
2025 (projected)	\$ 552,172
2026 (projected)	\$ 435,950
Total	\$ 3,469,657

The subsidy will continue to decrease annually, yet increase overall, until a 'break even' scenario is achieved which is expected to occur by 2030 as was illustrated in the rate study.

ASSET MANAGEMENT PLAN – 2022

The new 2022 Asset Management Plan (AMP) outlines the current state of asset management planning in the Municipality of Greenstone. It identifies the current practices and strategies that are in place to manage public infrastructure and makes recommendations where they can be further refined. Through the implementation of sound asset management strategies, the Municipality can ensure that public infrastructure is managed to support the sustainable delivery of municipal services.

The AMP includes all core assets (roads, bridges, water, wastewater) only as is required by O.Reg 588/17. All remaining assets will be incorporated into a 2024 update to remain compliant. Rate-funded assets are valued at \$105 million. The average annual capital requirement to sustain the current level of service for rate-funded assets is approximately \$2.2 million.

Strategic asset management planning is an ongoing and dynamic process that requires continuous improvement and dedicated resources. Several recommendations have been developed to guide the continuous refinement of the Municipality's asset management program. These include:

- a) asset inventory data review and validation
- b) the formalization of condition assessment strategies
- c) the implementation of risk-based decision-making as part of asset management planning and budgeting
- d) the continuous review, development and implementation of optimal lifecycle management strategies
- e) the identification of proposed levels of service

The evaluation of the above items and further development of a data-driven, best-practice approach to asset management is recommended to ensure the Municipality is providing optimal value through its management of infrastructure and delivery of services.

2024 RATE SUPPORTED BUDGET

WATER SYSTEMS

Revenues				
Description	Budget 2023	PROPOSED Budget 2024	FORECAST FUTURE BUDGETS	
			Budget 2025	Budget 2026
W/S Interest/Penalties	-15,000	-40,000	-35,000	-35,000
Ginoogaming/Res. #58 W/S Agreement	-48,000	-48,000	-48,000	-48,000
Water User Charges	-1,802,700	-1,910,850	-2,025,500	-2,147,050
Water Metered User Charges	-420,000	-477,000	-505,625	-535,950
Ginoogaming Metered Water Charges	-138,500	-157,400	-166,850	-176,850
Reserve #58 Metered Water Charges	-144,000	-152,650	-161,800	-171,500
Water Disc./Connect Charges	-12,000	-12,000	-12,000	-12,000
Allowance for Uncollectable (Dr. Balance)	5,000	5,000	5,000	5,000
TOTAL REVENUES	-2,575,200	-2,792,900	-2,949,775	-3,121,350

Expenses	2023 Budget	2024		2025 Projected Budget	2026 Projected Budget
		Proposed Budget	Annual \$ Change		
WATER TREATMENT					
BEARDMORE	322,100	357,425	35,325	367,400	378,700
GERALDTON	476,860	552,575	75,715	569,200	585,900
LOONGLAC	466,870	475,850	8,980	490,650	505,100
NAKINA	251,620	218,150	-33,470	224,300	231,500
GREENSTONE	1,500	1,200	-300	1,400	1,500
CARAMAT	177,000	177,175	175	182,700	188,300
WATER DISTRIBUTION					
BEARDMORE	1,000	5,000	4,000	5,000	5,000
GERALDTON	45,000	51,000	6,000	54,000	57,000
LOONGLAC	16,900	17,000	100	18,325	19,650
NAKINA	6,000	6,000	0	6,300	6,600
GREENSTONE	117,790	120,700	2,910	123,575	127,150
CARAMAT	1,300	1,200	-100	1,300	1,400
DEBT REPAYMENTS					
CARAMAT WTP LOAN (P&I)	77,020	77,025	5	77,025	77,025
2014 & 2016 EQUIPMENT LOAN (P&I)	95,770	95,775	5	95,775	95,775
NEW WATER TOWER PAINTING (2025)	0	0	0	190,000	190,000
CAPITAL					
CAPITAL CONTRIBUTIONS - WATER	971,092	234,000	-737,092	950,000	1,000,000
Total User Rate Supported Expenses	3,027,822	2,390,075	-637,747	3,356,950	3,470,600
Total Revenues	-2,575,200	-2,792,900		-2,949,775	-3,121,350
To Fund through Taxation	452,622	-402,825	-855,447	407,175	349,250

WASTEWATER/SEWER SYSTEMS

Revenues				
Description	Budget 2023	PROPOSED Budget 2024	FORECAST FUTURE BUDGETS	
			Budget 2025	Budget 2026
Sewer User Charges	-1,571,100	-1,670,650	-1,770,900	-1,877,150
Sewer Metered User Charges	-362,300	-417,950	-443,050	-469,625
Ginoogaming Sewer Charges	-131,300	-139,175	-147,525	-156,375
Reserve #58 Sewer Charges	-133,600	-141,625	-150,125	-159,125
Allowance for Uncollectable (Dr. Balance)	5,000	5,000	5,000	5,000
Sewer Frontage	0	0	0	0
TOTAL REVENUES	-2,193,300	-2,364,400	-2,506,600	-2,657,275

Expenses	2023 Budget	2024		2025 Projected Budget	2026 Projected Budget
		Proposed Budget	Annual \$ Change		
WASTEWATER TREATMENT					
BEARDMORE	32,740	35,450	2,710	36,600	37,700
GERALDTON	453,880	464,450	10,570	481,800	492,400
LONGLAC	379,960	424,375	44,415	441,100	451,200
NAKINA	149,520	129,750	-19,770	134,925	140,300
GREENSTONE	85,000	89,200	4,200	91,000	95,000
CARAMAT	23,450	26,600	3,150	27,700	28,500
SLUDGE BEDS	2,500	5,000	2,500	5,600	6,000
SANITARY COLLECTION					
GERALDTON	40,000	40,000	0	44,000	49,000
LONGLAC	10,300	11,000	700	11,800	12,600
NAKINA	3,500	3,700	200	4,000	4,300
GREENSTONE	59,850	61,325	1,475	62,850	64,750
CARAMAT	1,300	1,300	0	1,300	1,300
STORM SEWERS	8,000	25,000	17,000	28,000	30,000
SANITARY SEWERS	26,000	26,000	0	26,000	26,000
DEBT REPAYMENT					
GERALDTON STP LOAN (P&I)	576,664	576,675	11	576,675	576,675
2014 & 2016 EQUIPMENT LOAN (P&I)	128,253	128,250	-3	128,250	128,250
CAPITAL					
CAPITAL CONTRIBUTIONS - SEWER	478,750	1,375,900	897,150		600,000
Total User Rate Supported Expenses	2,459,667	3,423,975	964,308	2,651,600	2,743,975
Total Revenues	-2,193,300	-2,364,400		-2,506,600	-2,657,275
To Fund through Taxation	266,367	1,059,575	793,208	145,000	86,700

The net of the Water and Wastewater Systems calculation is an estimated deficit of \$656,750 (\$718,989 in 2023) that will require tax levy support in order to balance.

For the purpose of this budget, the net result for both services will be combined until such time the systems are 100% cost recovery and require no tax levy support. At that time Council can establish a policy to provide direction on the treatment of a surplus in either system.

RATE-SUPPORTED WATER AND WASTEWATER CAPITAL BUDGET

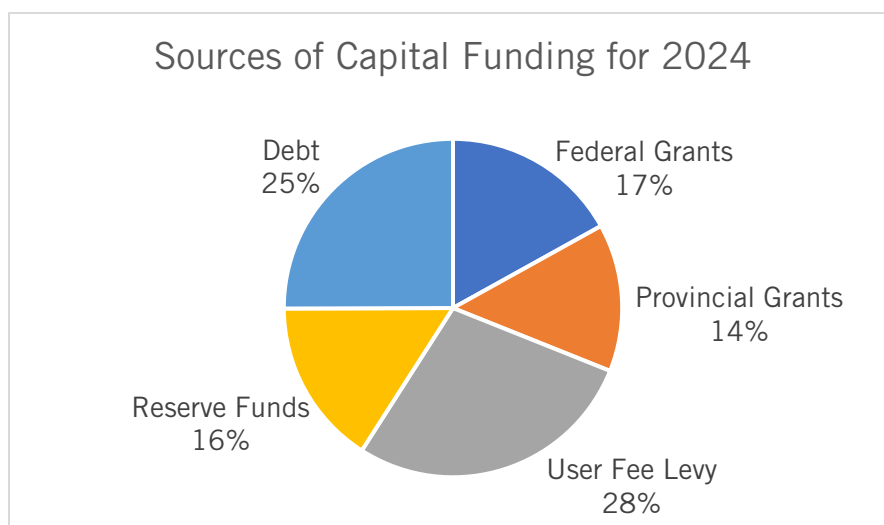
The capital budget is comprised of \$5,749,400 in expenditures for maintenance or replacement of existing assets (asset management); expansion or enhancement of existing assets; and new projects associated with an increase in the level of service. The capital projects have not been separated into the three buckets but may be in future budgets.

The rate-supported water and wastewater capital budget is a subsection of the overall capital management for the municipality and the municipal asset management plan. The water and wastewater budget, both operating and capital, is supported by the 2022 Asset Management Plan, 2021 Water Financial Plan and the 2021 Water and Sewer Rate Study, the latter referenced throughout this budget document.

The Rate Study was prepared based on the information available at the time of development. Staff have worked with OCWA to review and enhance the capital requirements and therefore there may be differences in the projects between the two studies and in particular, with respect to the timing of expenditures as the uncertainties of parts and material delivery have delayed some projects resulting in a carry-over of capital funding from 2023 to 2024 and that forms part of the transfer to reserves at year-end.

The greatest challenge for Greenstone is funding the capital projects required to provide sustainable water and wastewater services at a level of service desired by Council and residents. The Municipality has a duty of care under the Safe Drinking Water Act to rehabilitate infrastructure to ensure legislative compliance. With no dedicated water and wastewater reserves, and limited general capital reserves, the primary sources of funding for capital are the user rates, tax levy funded reserves as available, grants from senior levels of government, and debt financing.

Figure 5



2024 CAPITAL BUDGET SCHEDULES

WATER SYSTEM CAPITAL

Project Name	2024 Expenses	Federal Grants	Provincial Grants	User Fee Levy	Reserve Funds	Debt
BRD Curb Stop Bells & Pipe	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ -	\$ -
CAR High Lift Pump/Motor Replacement X2	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ -
GER Portable Flow Meter	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ -	\$ -
GER Water Tower Painting & Upgrades	\$ 740,000	\$ -	\$ -	\$ -	\$ -	\$ 740,000
LON Water Tower Painting & Upgrades	\$ 700,000	\$ -	\$ -	\$ -	\$ -	\$ 700,000
TOTAL - Water Distribution	\$ 1,480,000	\$ -	\$ -	\$ 40,000	\$ -	\$ 1,440,000
LON Filter Replacement Project	\$ 2,435,400	\$ 974,160	\$ 811,720	\$ -	\$ 649,520	\$ -
BRD Spare Chemical Feeder	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ -	\$ -
BRD Treated Flow Meter Display	\$ 4,000	\$ -	\$ -	\$ 4,000	\$ -	\$ -
BRD Low Lift Pump Motor	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ -	\$ -
BRD Chlorine Panel Replacement	\$ 15,000	\$ -	\$ -	\$ 15,000	\$ -	\$ -
BRD Filter Media Inspection/Addition	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ -	\$ -
GER Polymer Feeder Replacement	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ -	\$ -
GER KMNO4 Feeder Replacement	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ -	\$ -
GER Filter Media	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ -	\$ -
GER Turbidity Meter Replacement X2	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ -
NAK Well Inspection	\$ 50,000	\$ -	\$ -	\$ 50,000	\$ -	\$ -
NAK Chemical Dosing Pumps & Panel	\$ 40,000	\$ -	\$ -	\$ 40,000	\$ -	\$ -
TOTAL - Water Treatment	\$ 2,629,400	\$ 974,160	\$ 811,720	\$ 194,000	\$ 649,520	\$ -

WASTEWATER SYSTEM CAPITAL

Project Name	2024 Expenses	Federal Grants	Provincial Grants	User Fee Levy	Reserve Funds	Debt
BRD CCTV Work/Inspection	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ -	\$ -
GER Wastewater Inflow Infiltration	\$ 100,000	\$ -	\$ -	\$ 100,000	\$ -	\$ -
LON Riverview LS Re-lining	\$ 15,000	\$ -	\$ -	\$ 15,000	\$ -	\$ -
LON Centennial LS Pump	\$ 20,000	\$ -	\$ -	\$ 20,000	\$ -	\$ -
LON CCTV Riverview Collection Line/By Pass Ins	\$ 7,500	\$ -	\$ -	\$ 7,500	\$ -	\$ -
TOTAL - Sanitary Collection	\$ 152,500	\$ -	\$ -	\$ 152,500	\$ -	\$ -
GER WWTP Brick or Siding Replacement	\$ 50,000	\$ -	\$ -	\$ 50,000	\$ -	\$ -
GER 3 HP Flygt Sewage Pump	\$ 7,500	\$ -	\$ -	\$ 7,500	\$ -	\$ -
GER #2 Clarifier Cleaning & Inspection	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ -
GER Chlorine Contact Chamber Cleaning & Cove	\$ 15,000	\$ -	\$ -	\$ 15,000	\$ -	\$ -
GER Rebuild Mechanical Bar Screen	\$ 35,000	\$ -	\$ -	\$ 35,000	\$ -	\$ -
GER Shower Rebuild & Washer & Dryer	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ -	\$ -
LON Dechlorination Project (LON & NAK)	\$ 1,020,000	\$ -	\$ -	\$ 755,900	\$ 264,100	\$ -
LON Sludge Bed Refurbishment	\$ 290,000	\$ -	\$ -	\$ 290,000	\$ -	\$ -
LON Number 1 Digester Cover Replacement	\$ 15,000	\$ -	\$ -	\$ 15,000	\$ -	\$ -
LON David Arm System (H&S)	\$ 20,000	\$ -	\$ -	\$ 20,000	\$ -	\$ -
TOTAL - Wastewater Treatment	\$ 1,487,500	\$ -	\$ -	\$ 1,223,400	\$ 264,100	\$ -

2025-2029 FIVE YEAR CAPITAL PLAN

Greenstone recently completed an updated Asset Management Plan (AMP) which included facilities and linear infrastructure data for both water and wastewater systems. The AMP however, highlighted significant challenges with data reliability and included many recommendations for the water and wastewater asset classes. The municipality needs to develop more comprehensive datasets, strategies or procedures on the following;

- Asset Inventory
- Replacement Costs
- Condition Assessment Strategies
- Lifecycle Management Strategies
- Risk Management Strategies
- Levels of Service

The first step in this process is completion of the Facility Condition Assessment that will provide data on all major facilities including water and wastewater plants and significant pumping/lift stations. Draft data, which will be finalized in December 2023, currently shows the following facility related needs which will need funding annually from the user rate supported budget.

2025	2026	2027	2028	2029
\$381,051	\$513,485	\$113,992	\$397,633	\$5,414,794

Municipal staff have also undertaken a full review of the current GIS database to determine what information exists. A new data set will need to be created to develop a dynamic mapping program that can incorporate age-based and inspection-based information along with break history to develop a replacement program for the linear infrastructure. As such, the municipality will not have a comprehensive long-term plan until at least 2025 when all facility and linear assets are incorporated.

The charts below have been provided by OCWA in relation to machinery, equipment and process related assets that require consideration over the next five years. Overall, the OCWA related plan requires the following funding annually from the user rate supported budget.

2025	2026	2027	2028	2029
\$609,500	\$443,000	\$529,500	\$770,500	\$380,000

BEARDMORE SERVICE AREA

	Scope of Capital Work Recommended	2025	2026	2027	2028	2029
Wastewater Collection	Lift Station Pump Replacement				\$ 15,000	
Wastewater Collection	Lift Station Valve Chamber Valve Replacement		\$ 20,000			
Water Distribution	Chlorine Analyzer			\$ 25,000	\$ 25,000	
Water Distribution	Valve/hydrant Repair/Replacement	\$ 25,000				
Water Treatment	WTP Butterfly Valve Replacement	\$ 10,000		\$ 15,000		\$ 15,000
Water Treatment	Metering Chemical Pumps & Panel		\$ 15,000		\$ 15,000	
Water Treatment	Low Lift Pump	\$ 50,000				
Water Treatment	Replace Fire Pump Valves	\$ 9,000				
Water Treatment	Turbidity Meters		\$ 10,000			
Water Treatment	Treated Flow Meter	\$ 15,000				
Water Treatment	Raw Flow Meter		\$ 15,000			
Water Treatment	Package Plant - Interior Tank Insp. & Painting					\$ 120,000
Water Treatment	Filter Media Inspection/Addition			\$ 10,000		
	TOTAL Annual Requirement	\$ 109,000	\$ 60,000	\$ 50,000	\$ 55,000	\$ 135,000

CARAMAT SERVICE AREA

	Scope of Capital Work Recommended	2025	2026	2027	2028	2029
Water Distribution	Valve/hydrant Repair/Replacement	\$ 10,000				
Water Treatment	Compressor Overhaul and Maintenance		\$ 10,000			
Water Treatment	Intake Inspection				\$ 10,000	
Water Treatment	Chlorine Meter Pump	\$ 10,500				
Water Treatment	Ozone Gererator System		\$ 10,000		\$ 10,000	\$ 15,000
Water Treatment	High Lift Pump/Motor Replacement X2			\$ 12,000	\$ 10,000	
Water Treatment	Low Lift Pump	\$ 10,000				\$ 7,000
Water Treatment	Pressure Tank Replacement			\$ 10,000		\$ 10,000
Water Treatment	Chlorine Analyzer Replacement controler			\$ 10,000		
Water Treatment	Compressor Replacement		\$ 15,000			
	TOTAL Annual Requirement	\$ 30,500	\$ 35,000	\$ 32,000	\$ 30,000	\$ 32,000

GERALDTON SERVICE AREA

	Scope of Capital Work Recommended	2025	2026	2027	2028	2029
Wastewater Treatment	3 HP Flygt Sewage Pump		\$ 18,000		\$ 18,000	\$ 15,000
Wastewater Treatment	Replace Return Activated Sludge Pump - WPCP		\$ 20,000	\$ 15,000		
Wastewater Treatment	#2 Clarifier Cleaning & Inspection				\$ 25,000	
Wastewater Treatment	#1 Clarifier Cleaning & Inspection			\$ 25,000		
Wastewater Treatment	Aerzon Delta Blower	\$ 75,000				
Wastewater Treatment	Recirculator Drive #1 Clarifier			\$ 40,000		
Wastewater Collection	Edith Station Pump Replacement		\$ 15,000		\$ 15,000	
Wastewater Collection	McKenzie Pump Impellers		\$ 15,000		\$ 15,000	\$ 15,000
Water Distribution	Valve/Hydrant Repair/Replacement		\$ 10,000			
Water Treatment	Backwash Pump For Process	\$ 22,000		\$ 25,000		
Water Treatment	Intake Inspection				\$ 15,000	
Water Treatment	Back Flow Preventor					\$ 15,000
Water Treatment	High Lift Pump				\$ 50,000	
Water Treatment	Low Lift Pump	\$ 50,000				
Water Treatment	Chemical Mixer Replacement		\$ 15,000			
Water Treatment	Clearwell Inspection			\$ 10,000		
Water Treatment	12" Butterfly Valves & Filters	\$ 15,000				
Water Treatment	Waste Pit Pump		\$ 10,000			
Water Treatment	Valve Piping Replacement		\$ 15,000			
	TOTAL Annual Requirement	\$ 162,000	\$ 118,000	\$ 115,000	\$ 138,000	\$ 45,000

LONGLAC SERVICE AREA

	Scope of Capital Work Recommended	2025	2026	2027	2028	2029
Wastewater Treatment	Blower Replacement #3			\$ 85,000		
Wastewater Treatment	#2 Clarifier Drive Rebuild					\$ 100,000
Wastewater Treatment	Clarifier/Aeration Cleaning, Inspection & Maint.	\$ 25,000		\$ 25,000		\$ 25,000
Wastewater Treatment	Pump Replacement Parts - Impellers/Volutes			\$ 10,000		
Wastewater Collection	Centennial LS Pump	\$ 15,000				\$ 15,000
Wastewater Collection	Frando LS Pump		\$ 15,000			
Water Treatment	High Lift Pump Replacement	\$ 65,000				
Water Treatment	Low Lift Pump Replacement	\$ 55,000				
Water Treatment	Intake Inspection			\$ 22,500		
Water Treatment	Chemical Dosing Pumps	\$ 23,000		\$ 18,000		\$ 18,000
Water Treatment	Clarifier Relining - Tank 1				\$ 125,000	
Water Treatment	Clarifier Relining - Tank 2		\$ 125,000			
Water Treatment	Chlorine Gas Scrubber				\$ 350,000	
	TOTAL Annual Requirement	\$ 183,000	\$ 140,000	\$ 160,500	\$ 475,000	\$ 158,000

NAKINA SERVICE AREA

	Scope of Capital Work Recommended	2025	2026	2027	2028	2029
Wastewater Treatment	Blower Replacement			\$ 65,000		
Wastewater Treatment	Digester Covers				\$ 22,500	
Wastewater Treatment	Chemical Metering Pumps	\$ 10,000				
Wastewater Treatment	Aeration Clean/Inspection		\$ 25,000			
Wastewater Treatment	Clarifier Clean/Inspection/maintenance		\$ 25,000	\$ 25,000		
Wastewater Collection	Sewage Pump for LS KC&River		\$ 25,000			
Wastewater Collection	Sewage Pump for LS Warren			\$ 25,000		
Wastewater Collection	Warren ST LS Generator	\$ 65,000				
Water Treatment	Flow Meter Raw			\$ 12,000		
Water Treatment	Flow Meter Treated	\$ 15,000	\$ 15,000			
Water Treatment	Well Inspection			\$ 45,000	\$ 50,000	
Water Treatment	Chemical Dosing Pumps & Panel	\$ 35,000				\$ 10,000
	TOTAL Annual Requirement	\$ 125,000	\$ 90,000	\$ 172,000	\$ 72,500	\$ 10,000