

Appendix A -Budgeted Capital Projects

**MUNICIPALITY OF BROCKTON**  
**2020 NON-TAX SUPPORTED CAPITAL BUDGET**

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Project #	Dept.	Project	Description	Estimated Cost	Reserve Fund	Deferred Revenue	Grants	Borrowing	2018 Tax Rate Carry over	Tax Rate Funded
<b>2019 Carry Forward</b>										
	Utilities - Water	Capital Engineering UV Disinfectant	Utilities Reserve Fund	40,000	40,000					
	Utilities - Wastewater Collection	Capital Engineering Road Reconstruction (Yonge St)	Utilities Reserve Fund	40,000	40,000					
			Total 2019 Carryforward	80,000	80,000					
<b>2020 Proposed Projects - High Priority</b>										
	Utilities - WWTP	New Gate at WWTP	Utilities Reserve Fund	10,000	10,000					
	Utilities - WWTP	Fence Repairs	Utilities Reserve Fund	10,000	10,000					
	Utilities - WWTP	Gravel Roadway (New Gravel and Grading)	Utilities Reserve Fund	10,000	10,000					
	Utilities - WWTP	Office Air Conditioner	Utilities Reserve Fund	15,000	15,000					
	Utilities - WWTP	UV Disinfection System	Utilities Reserve Fund	150,000	150,000					
	Utilities - WWTP	Building for UV Disinfection System (Includes - utilities and secur	Utilities Reserve Fund	40,000	40,000					
	Utilities - WWTP	McGovern Street Replacement - Sanitary Sewer	Utilities Reserve Fund	100,000	100,000					
	Utilities - WWTP	Step Screen Overall	Utilities Reserve Fund	10,000	10,000					
	Utilities - WWTP	Remove/ Replace Stuck Gates	Utilities Reserve Fund	6,000	6,000					
	Utilities - WWTP	Backup Blowers	Utilities Reserve Fund	45,000	45,000					
	Utilities - WWTP	Primary Digester Gas Flow Meter	Utilities Reserve Fund	8,000	8,000					
	Utilities - WWTP	Sludge Holding Tank Mixer	Utilities Reserve Fund	35,000	35,000					
	Utilities - WWTP	Final Clarifier 3 and 4 Pontoon Replacement	Utilities Reserve Fund	7,500	7,500					
	Utilities - WWTP	Engineering of Ferric Tank Replacement	Utilities Reserve Fund	30,000	30,000					
	Utilities - WWTP	Blowdown Refurb	Utilities Reserve Fund	125,000	125,000					
	Utilities - Wastewater Collection	Sealing of Lobles Park Manholes	Utilities Reserve Fund	65,000	65,000					
	Utilities - Wastewater Collection	Inflow and Infiltration Study	Utilities Reserve Fund	30,000	30,000					
	Utilities - Water	Booster Station - Walker West Estates	Utilities Reserve Fund	750,000	750,000					
	Utilities - Water	North Water Tower Fence	Utilities Reserve Fund	5,000	5,000					
	Utilities - Water	Water Meter Purchase	Utilities Reserve Fund	18,000	18,000					
	Utilities - Water	Fire Hydrant Installation	Utilities Reserve Fund	25,000	25,000					
	Utilities - Water	Lake Rosalind Well #3 Repair	Utilities Reserve Fund	65,000	65,000					
	Utilities - Water	Water Quantity Report (SWP)	Utilities Reserve Fund	125,000	125,000					
	Utilities - Water	Water Main - McGovern Street	Utilities Reserve Fund	150,000	150,000					
	Utilities - Water	Chepstow Turbidity Analyzer	Utilities Reserve Fund	6,500	6,500					
	Utilities - Water	Chepstow Surge Protection	Utilities Reserve Fund	6,000	6,000					
			TOTALS FOR CAPITAL PROJECTS FOR 2020	1,847,000	1,847,000	0	0	0	0	0

**Municipality of Brockton  
Capital Projects**

Department	Utilities		
Project	Water Service - Chepstow Surge Protection		
Year	2020		
Projected Cost	\$ 6,000		
Funding Source	02-3135-0142 - Utilities RF	Account #	02-3135-1600

### Project Description

Installation of a surge protection system - Chepstow.

### Justification of Project Need

A surge protection system is required to protect the security of the water treatment system during an electrical power surge

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Water Service - Chepstow Turbidity Analyzer		
Year	2020		
Projected Cost	\$ 6,500		
Funding Source	02-3135-0142 - Utilities RF	Account #	02-3135-1600

### Project Description

Replace the Turbidity Analyzer at the Chepstow water treatment facility

### Justification of Project Need

The Turbidity Analyzer is a necessary part of the water treatment system. It determines how 'dirty' the incoming water is which guides the kind and amount of treatment necessary. A new analyzer is necessary as this current one is older. Analyzers have a relatively short life expectancy as they are always in operation.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Water Service - Fire Hydrant Replacement and Installation		
Year	2020		
Projected Cost	\$ 25,000		
Funding Source	02-3135-0142 - Utilities RF	Account #	02-3135-1600

### Project Description

New Fire Hydrants and Installation

### Justification of Project Need

The municipality has 3 fire hydrants to purchase and install in 2020

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



Municipality of Brockton  
Capital Projects

Department	Utilities		
Project	Water Service - Lake Rosalind Well #3 Repair		
Year	2020		
Projected Cost	\$ 65,000		
Funding Source	02-3135-0142 - Utilities RF	Account #	02-3135-1600

**Project Description**

Carry-over from 2019 - Well #3 Repair

**Justification of Project Need**

Carry-over from 2019 - Extend Well Casing and repair hole in casing

**Future Operation Costs**

Description	2019	2020	2021	2022	2023
Total	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Water Service - Radio Read Water Meter Reader		
Year	2020		
Projected Cost	\$ 18,000		
Funding Source	02-3135-0142 - Utilities RF	Account #	02-3135-1600

### Project Description

New Radio Read Water Meter Reader

### Justification of Project Need

The Municipality's current meter reader unit is not capable of reading the new radio read meters. The upgraded unit will ensure that meter reading continues to be seamless.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Water Service - North Water Tower Fence Repair (Security)		
Year	2020		
Projected Cost	\$ 5,000		
Funding Source	02-3135-0142 - Utilities RF	Account #	02-3135-1600

### Project Description

Security Fence around North Water Tower needs to be repaired in several places and has a broken entrance gate.

### Justification of Project Need

North Water Tower Facility requires security fence repairs and a new entrance gate. Facility also houses Emergency Services Radio System which is a public safety issue. It is important to have this facility secure.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



Municipality of Brockton  
Capital Projects

Department	Utilities		
Project	Water Service - Walker West Booster Station		
Year	2020		
Projected Cost	\$ 800,000		
Funding Source	02-3135-0142 - Utilities RF	Account #	02-3135-1600

**Project Description**

Walker West Booster Station

**Justification of Project Need**

A Water Booster Station has been engineered in 2019 to deal with pressure zone issues and to make sure there is enough water pressure to the new subdivision. The EA process will be finalized in 2020. The Booster Station will need to be constructed in 2020.

**Future Operation Costs**

Description	2019	2020	2021	2022	2023
Total	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Water Service - Water Main Installation on McGivern Street		
Year	2020		
Projected Cost	\$ 150,000		
Funding Source	02-3135-0142 - Utilities RF	Account #	02-3135-1600

### Project Description

Water Main Installation on McGivern Street

### Justification of Project Need

Road work is due for McGivern Street in 2020 and so is the installation of a new water main and sanitary Sewer main.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Water Service - Water Quantity Study (SWP)		
Year	2020		
Projected Cost	\$ 125,000		
Funding Source	02-3135-0142 - Utilities RF	Account #	02-3135-1600

### Project Description

Water Quantity Report/ Study for the Lake Rosalind, Chepstow, and Walkerton Wells

### Justification of Project Need

This report will give the Municipality an opportunity to address the Source Water Protection Plan concerns at Lake Rosalind. It will also give the Municipality some piece of mind in supporting future growth demands (housing, commercial, and industrial)

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



Municipality of Brockton  
Capital Projects

Department	Utilities		
Project	Waste Water Collection System - East Ridge Road Extension		
Year	2020		
Projected Cost	\$ 150,000		
Funding Source	02-3141-0142 - Utilities RF	Account #	02-3141-1600

**Project Description**

East Ridge Road Extension

**Justification of Project Need**

With the East Ridge Master Servicing Plan now approved by Council and the New Hospice to be built and additional Commercial and Industrial inquiries for East Ridge Business Park, plans need to be put in place to upgrade and ready the area for growth.

**Future Operation Costs**

Description	2019	2020	2021	2022	2023
Total	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Waste Water Collection System - Inflow and Infiltration Study		
Year	2020		
Projected Cost	\$ 30,000		
Funding Source	02-3141-0142 - Utilities RF	Account #	02-3141-1600

### Project Description

The Inflow and Infiltration Study will identify areas within the wastewater collection system that are in need of repair to cap off infiltration issues which lead to additional wastewater treatment.

### Justification of Project Need

Inflow and Infiltration can account for an additional 20% to 50%, depending on the time of year, of additional waste water treatment (additional chemical and physical treatment and wear and tear on equipment). We can use the 2019 zoom camera information to aid in this project. The report will help guide future capital asset planning.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



Municipality of Brockton  
Capital Projects

Department	Utilities		
Project	Waste Water Collection System - Sealing Lobies Park Manholes		
Year	2020		
Projected Cost	\$ 65,000		
Funding Source	02-3141-0142 - Utilities RF	Account #	02-3141-1600

**Project Description**

Sealing Manholes within Lobies Park

**Justification of Project Need**

During flooding events at Lobies Park, the Sanitary Sewer Manholes tend to accept a lot of rain water. Sealing those manholes, still being accessible when needed, will prevent the rain water from entering the wastewater collection system and then we won't have to treat the excessive water each spring.

**Future Operation Costs**

Description	2019	2020	2021	2022	2023
Total	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

**Municipality of Brockton  
Capital Projects**

Department	Utilities		
Project	Waste Water Treatment Plant - Replace Backup Blowers		
Year	2020		
Projected Cost	\$ 45,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

**Project Description**

Backup blowers need to be replaced.

**Justification of Project Need**

Blowers are needed to provide oxygen to the treatment system to feed the aerobic bacteria that eat the solids within the wastewater. Backup blowers are the fail safe when the primary blowers go off line for repairs/ maintenance. Sometimes the blowers are put through an alternating process so that we can extend the life expectancy of the motors. This backup system is an imperative failsafe.

**Future Operation Costs**

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Waste Water Treatment Plant - Biogas Generator Refurbishment		
Year	2020		
Projected Cost	\$ 125,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

### Project Description

A major overhaul of the Biogas Generator Engine.

### Justification of Project Need

The Biogas Generator Engine needs a full overhaul. It runs constantly and although it has had routine maintenance, it is time, based on hours of service, to be fully overhauled.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



Municipality of Brockton  
Capital Projects

Department	Utilities		
Project	Waste Water Treatment Plant - Building A/C		
Year	2020		
Projected Cost	\$ 15,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

**Project Description**

The office Air Conditioning Unit has failed. Replacement is needed

**Justification of Project Need**

The office is also the control room where there are banks (2 full walls) of monitors, computers, and electrical transformers that are all giving off excessive amounts of heat. In the summer time, the extra heat is very hard on staff and the equipment. This is a health and safety issue.

**Future Operation Costs**

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

**Municipality of Brockton  
Capital Projects**

Department	Utilities		
Project	Waste Water Treatment Plant - Engineering of Ferric Tank Replacement		
Year	2020		
Projected Cost	\$ 30,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

### Project Description

Engineering for Ferric Tank Replacement (tank, containment, piping, and building)

### Justification of Project Need

The Walkerton Pollution Control Plant uses Ferric Chloride for coagulation. It is very corrosive. A new tank, containment area, piping, and building to house the chemical is needed from both a functional and health and safety perspective. Engineering would happen in 2020 with the actual build to take place in 2021.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Waste Water Treatment Plant - Final Clarifier 3 and 4 Pontoon Replacement		
Year	2020		
Projected Cost	\$ 7,500		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

### Project Description

Replace pontoons in Final Clarifier 3 and 4

### Justification of Project Need

Pontoons are used to float aerators on the surface of the clarifier. Pontoons get holes or get damaged due to weather and other maintenance activities and need to be replaced from time to time to make sure that the equipment that they are holding remains in the correct position.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Waste Water Treatment Plant - Front Gates		
Year	2020		
Projected Cost	\$ 10,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

### Project Description

Replace Front Gates - Security

### Justification of Project Need

Front Gates need to be replaced. Gates are old and falling apart. Gates are left open when staff are there, however for security reasons, they need to be closed.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Waste Water Treatment Plant - Gravel Driveway within Compound		
Year	2020		
Projected Cost	\$ 10,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

### Project Description

Gravel driveway grading and gravel replacement within WWTP Compound

### Justification of Project Need

The gravel driveway portion, within the compound, is severely degraded due to large truck travel. The driveway needs to be regraded and gravel replaced.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Waste Water Treatment Plant - Perimeter Fence Repairs		
Year	2020		
Projected Cost	\$ 10,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

### Project Description

Perimeter Fence Repairs- Security

### Justification of Project Need

The Perimeter Fence needs to be repaired in a number of places. There are areas that have completely fallen down.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Waste Water Treatment Plant - Primary Digester Gas Flow Meter		
Year	2020		
Projected Cost	\$ 8,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

### Project Description

Replace older Primary Digester Gas Flow Meter

### Justification of Project Need

The Primary Digester Gas Flow Meter is an instrument that measures a number of parameters that the Operator needs to monitor in order to maximize the efficiency of the treatment of the wastewater.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Waste Water Treatment Plant - Replace Stuck Gates		
Year	2020		
Projected Cost	\$ 6,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

### Project Description

Flow control gates in and around primary clarify are stuck/ corroded and need to be replaced.

### Justification of Project Need

Flow control gates act like 'valves' throughout the Waste Water Treatment Plant. As such they all need to function properly. There are 3 or 4 sets of gates that need to be removed and replaced so that staff can control flow more easily.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



Municipality of Brockton  
Capital Projects

Department	Utilities		
Project	Waste Water Treatment Plant - Sludge Holding Tank Mixer		
Year	2020		
Projected Cost	\$ 35,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

**Project Description**

Replace Sludge Holding Tank Mixer

**Justification of Project Need**

The Sludge Holding Tank Mixer keeps the sludge in a more liquid form so that the wastewater to be treated flows through the wastewater treatment system easier (pipes and troughs). It gets 'gummed-up' and corroded given the environment it works in. It needs to be replaced on a regular basis.

**Future Operation Costs**

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Waste Water Treatment Plant - Step Screen Overhaul		
Year	2020		
Projected Cost	\$ 10,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

### Project Description

The step screen system needs to be overhauled - primary removal of large debris

### Justification of Project Need

The Step Screen is the primary removal of larger debris that is collected in the Waste Water Treatment System. This debris needs to be removed so that these items do not end up going through and clogging up pipes and pumps within the Waste Water Treatment Plant system.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00



## Municipality of Brockton Capital Projects

Department	Utilities		
Project	Waste Water Treatment Plant - UV Disinfection System Building		
Year	2020		
Projected Cost	\$ 40,000		
Funding Source	02-3140-0142 - Utilities RF	Account #	02-3140-1600

### Project Description

Building to house new UV Disinfection System

### Justification of Project Need

The new UV Disinfection System needs to be housed in its own building in order to keep the system, its monitors, and supplies from inclement weather. Staff also need a place to do maintenance and replace bulbs that is clean.

### Future Operation Costs

Description	2019	2020	2021	2022	2023
<b>Total</b>	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

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AVERAGE INCREASE WOULD BE APP 3.0% ON A BILL

### WATER - 2020

Flat Rate increase: \$8.25  
\$ 0.04

2020			Input % here	2019		
Water Rates	Per 30 Days	Annual Rate	% Increase	Water Rates	Per 30 Days	Annual Rate
Flat Rate	17.60	214.53	3.00000%	Flat Rate	17.08088	208.28000
Consumption	1.3441		3.00000%	Consumption	1.30491	
after 292/mth	1.10		3.00000%	Consumption after 292/mth	1.07151	
after 1,400/mth	0.94				0.91078	

Must input opening figures

### WATER FLAT RATES

Walkerton	Size	Flat Rate	2019	2020	Annual Flat Rate
Residential	3/4"	\$ 215	2042	438,066.99	
Res- Flat No Mtrs	FLAT	\$ 676	7	4,730.35	
Commercial	3/4"	\$ 243	2	486.55	
Commercial	3/4" X 5/8"	\$ 215	23	4,834.15	
Res/Commercial	1"	\$ 300	68	20,423.10	
Commercial	1.5"	\$ 386	12	4,633.81	
Commercial	2.0"	\$ 644	27	17,376.80	
Comm-Subtr-Parent	2.0"	\$ 644	2	1,287.17	
Commercial	3.0"	\$ 3,003	1	3,003.40	
Commercial	4.0"	\$ 4,505	2	9,010.19	
Commercial	6.0"	\$ 6,436	1	6,435.85	
<b>Walkerton</b>			<b>2187</b>	<b>510,388.38</b>	

### WATER CONSUMPTION

Input from Keystone Reports Sept 1 - Aug 31										INFLIT FIG	
First 3550	Balance	2018 Consumption	Consumption @ 1.34	Cost @ 1.34	Consumption @ 1.10	Cost @ 1.10	Consumption @ 0.94	Cost @ 0.94	TOTALS	2020	2019
303,134	1.10	303,134	303,134	407,428.53	-	-	-	-	845,495.52	788,512.31	4,498.00
530	1.10	530	530	712.35	-	-	-	-	4,730.35	1,088.48	36,812.06
28,897	1.34	28,897	13,109	17,619.21	16,788	18,528.15	-	-	41,081.51	73,460.40	14,758.20
39,605	1.34	39,605	30,814	41,415.69	8,791	9,702.22	-	-	71,541.01	106,538.76	1,425.83
8,047	1.34	8,047	8,047	10,815.80	-	-	-	-	15,449.42	3,102.90	15,101.10
71,164	1.34	71,164	42,289	56,838.71	24,000	26,487.70	4,875	4,573.27	100,703.21	6,806.27	9,285.44
174	1.34	174	174	233.87	-	-	-	-	1,521.04	1,053,878.83	1,053,878.83
230	1.34	230	230	308.13	-	-	-	-	3,312.53	1,053,878.83	1,053,878.83
4,335	1.34	4,335	3,812	5,123.53	523	577.21	-	-	14,710.94	1,053,878.83	1,053,878.83
35	1.34	35	350	470.42	-	-	-	-	6,806.27	1,053,878.83	1,053,878.83
									1,106,650.70	1,053,878.83	1,053,878.83
									55,295.29	1,106,650.70	1,053,878.83
									4,875.00	1,106,650.70	1,053,878.83
									9,321.97	1,106,650.70	1,053,878.83
									168,886	1,106,650.70	1,053,878.83
									4,875	1,106,650.70	1,053,878.83
									1,193,719.04	1,081,513.93	1,081,513.93

UPDATE WITH PREVIOUS YEARS RATES FIRST WATER AND SEWER			
WATER RATES	2020 Annual Rates	Annual Rate	Times the Residential
Residential	3/4"	2,018.00	1%
Res Flat/No Meter	FLAT	656.00	3.15%
Commercial	3/4"	236.00	1.13%
Commercial	3/4" X 5/8"	208.00	1.00%
Res/Commercial	1"	282.00	1.40%
Commercial	1.5"	375.00	1.80%
Commercial	2.0"	625.00	3.00%
Commercial	3.0"	2,815.00	14.00%
Commercial	4.0"	4,373.00	21.00%
Commercial	6.0"	6,247.00	30.00%

2020 Using Calculated Costs		
<b>Total Revenue 2018</b>	<b>Budget</b>	<b>1,158,865.23</b>
<b>Proposed Inc 2019</b>	<b>Budget</b>	<b>1,193,719.04</b>
<b>Difference</b>		<b>34,853.81</b>
<b>Percentage Increase</b>		<b>3.0076%</b>

2017 Total Calc. Increase/Decrease  
2017 Total Calc.

Percentage Plus/Minus
1,193,719.04
112,205.11
1,081,513.93

Water Rate required to meet expenditures-current budget  
**(0.00)**

### SEWAGE - 2020

Flat Rate increase: \$6.59 the sewage rate is 1.26097 percent of the Water rate

2020			Input % here	2019		
Water Rates	Per 30 Days	Annual Rate	% increase	Water Rates	Per 30 Days	Annual Rate
Flat Rate	17.96	238.10		3.0000% Flat Rate	17.45603	231,54540
Consumption	1.40			3.0000% Consumption	1.35795	
after 1,400/mth	1.15			3.0000% after 282/mth	1.11395	
	0.98			after 1,400/mth	0.94685	

Must input covering figures

SEWER FLAT RATES					SEWER CONSUMPTION							INPUT FIGURES	
Walkerton	Size	Flat Rate	Users	Annual Flat Rate	First 3550	Balance	2019 Consumption	Consumption 1.40	Cost @ 1.40	Consumption @ 1.15	Cost @ 1.15	TOTALS 2020	Budget Totals 2018
Residential	3/4"	238	2042	486,203.80	1.40	1.15	303,134	303,134	423,891	-	-	810,194.46	804,188.79
Res- Flat No Mtr	FLAT	750	7	5,250.14	-	-	-	-	-	-	-	5,250.14	4,888.26
Commercial	3/4"	270	2	540.01	1.40	1.15	530	530	741	-	-	1,281.32	1,822.88
Commercial	3/4" X 5/8"	238	19	4,523.83	1.40	1.15	28,867	28,867	41,817	-	-	46,340.59	38,329.06
Res/Commercial	1"	333	88	22,667.28	1.40	1.15	38,605	38,605	55,395	-	-	78,062.43	84,888.86
Commercial	1.5"	429	12	5,143.00	1.40	1.15	8,047	8,047	11,255	-	-	16,368.28	15,201.45
Commercial	2.0"	714	25	17,857.63	1.40	1.15	71,338	71,338	88,780	-	-	117,637.42	91,170.85
Commercial	3.0"	3,333	1	3,333.42	1.40	1.15	230	230	322	-	-	3,655.12	3,125.84
Commercial	4.0"	5,000	2	10,000.27	1.40	1.15	4,335	4,335	6,063	-	-	16,063.60	17,824.30
Commercial	6.0"	7,143	1	7,143.05	1.40	1.15	35	35	49	-	-	7,192.01	8,903.85
<b>Walkerton</b>			<b>2179</b>	<b>562,862.56</b>			<b>457151</b>	<b>638,412.79</b>				<b>1,202,075.35</b>	<b>1,045,279.75</b>

SEWER RATES			
2020 Annual Rates	Annual Rate	Times the Residential	
Residential	3/4"	323.00	1%
Res Flat/No Meter	FLAT	728.00	3.15%
Commercial	3/4"	263.00	1.13%
Commercial	3/4" X 5/8"	232.00	1.00%
Res/Commercial	1"	324.00	1.40%
Commercial	1.5"	417.00	1.80%
Commercial	2.0"	695.00	3.00%
Commercial	3.0"	3,242.00	14.00%
Commercial	4.0"	4,862.00	21.00%
Commercial	6.0"	6,946.00	30.00%

2020 Using Calculated Costs		
<b>Total Revenue 2018</b>	<b>Budget</b>	<b>1,167,958.22</b>
<b>Proposed Inc 2019</b>	<b>Budget</b>	<b>1,202,075.35</b>
<b>Difference</b>		<b>34,117.13</b>
<b>Percentage Increase</b>		<b>2.9211%</b>

2017 Total Calc. Increase/Decrease  
2017 Total Calc.

2017 Total Calc. Increase/Decrease	1,202,075.35	Percentage Plus Minus
2017 Total Calc.	158,795.60	
	1,045,279.75	

Percentage Increase

**Sewage Rate required to meet expenditures-current budget**  
**(0)**

UPDATE BUDGET CELLS FOR THIS	
Treatment Plant % Meter Revenue	89.00%
Collection System % Meter Revenue	11.00%
	100.00%



