CITY OF BANGOR WATER RATE

CALCULATION REPORT CAPITAL IN BASE AND SIZE EQ.

SEPTEMBER 2024'



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YOUR RATE EVALUATION SHOULD BE REVIEWED BY A CERTIFIED FINANCIAL PLANNER AND YOUR ATTORNEY

CITY OF BANGOR WATER RATE CALCULATION REPORT

DATE SEPTEMBER 2024'

PAGE # PAGE CONTENTS

- 1 COVER SHEET
- 2 INDEX
- 3 INTRODUCTION TO WATER RATES

4 SUPPORTING DATA INDEX

- 5 BACKGROUND / STARTING INFORMATION
- 6 CURRENT RATE CHARGES & NUMBER OF CUSTOMERS
- 7 EXTRA REU CUSTOMERS
- 8 METER EQUIVALENTS BY SIZE AND COST RATIO
- 9 UNITS OF WATER INVOICED TO CUSTOMERS

10 ANNUAL BUDGET / EXPENSES INDEX

- 11 BANK BALANCES
- 12 TOTAL COMBINED CURRENT INCOME
- 13 EXPENSES
- 14 NON-SALES & OTHER REVENUE

15 CAPITAL IMPROVEMENT & EQUIPMENT REPLACEMENT INDEX

- 16 SHORT LIVED ASSET REPLACEMENT LIST PART 1
- 17 SHORT LIVED ASSET REPLACEMENT LIST PART 2
- 18 SHORT LIVED ASSEST REPLACEMENT FUND RUNNING BALANCE
- 19 CAPITAL IMPROVEMENT PROJECTS SUMMARY
- 20 CAPITAL IMPROVEMENT FUND RUNNING BALANCE

21 CONCLUDING PAGES - RESULTS OF RATE EVALUATION INDEX

- 22 FINAL ANALYSIS RATE CALCULATION CURRENT FISCAL YEAR
- 23 SUMMARY OF NEW CHARGES "ALL ENTITIES"
- 24 TYPICAL CUSTOMER BILL
- 25 10 YEAR PROJECTIONS SUMMARY
- 26 10 YEAR PROJECTIONS REVENUES
- 27 10 YEAR PROJECTIONS EXPENSES
- 28 CONCLUSION OF ANALYSIS
- 29 CONFIRMATION OF INCOME

INTRODUCTION

Quality drinking water is an essential public service provided to residents. Without a water system the community would cease to exist. Over many years your community has invested in the essential infrastructure and services necessary to provide it's residents with safe and reliability drinking water.

The construction and maintenance of this infrastructure is one of the most costly investments the residents in your community will make. Community officials strive to ensure that the resident's investment in these facilities is based on sound judgment, cost effectiveness, and sustainable financing for the present and future. The purpose of analyzing utility rates is to ensure;

- a) Compliance with federal and state regulations governing utility rates, and
- b) That adequate revenue is collected through service charges to support the cost of providing the service and
- c) That the rates are equitable to all users of the service.

That is, each user's share of the cost is proportionate to their use of the system.

REVENUE REQUIREMENT = TOTAL SYSTEM COST

Ensuring that the revenue covers the total system cost means the service is "sustainable". That is, the system will serve the present needs and will continue to meet future needs.

Total system cost is comprised of the following cost components:

Operation & Maintenance (O&M) expenses. These are the daily costs of labor, materials, supplies, utilities, etc. necessary to operate and maintain the facilities.

Replacement expenses. These are costs to replace operating equipment with a useful life of 20 years or less. The sum of O&M expense and replacement expense is referred to as OM&R.

Capital improvements. These are costs to replace structural components with useful life greater than 20 years and or to expand and improve the current facilities.

Administrative expenses. These are the costs of general management, financial management, meter reading, and billing & collections.

Debt service expenses. These are the annual costs of loans or bond repayment used to finance construction and generally includes facilities and structures with a useful life of 20 years of more.

PAGE#

4	SUPPORTING DATA INDEX
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BACKGROUND / STARTING INFORMATION	
Name of Community :	BANGOR WATER
PHYSICAL ADDRESS	257 W. Monroe Street
MAILING?	257 W. Monroe Street
ZIP CODE	49013
OFFICE PHONE NUMBER	269-427-5831
BUDGET FOR FISCAL YEARS <u>STARTING</u>	2024
PRIMARY WATER SOURCE	WELLS
PRIMARY TREATMENT TYPE	NO/LOW TREATMENT CHLORINE
PRIMARY DISTRIBUTION TYPE	GRAVITY & TOWER
Current Rate Structure	
Are bills based on 1,000 gallons units or 100 cubic feet units?	100
Number of Customer Invoices per Year	12
What are the dates of the Fiscal Year	July 1st
List the names of the different Entities Served OR RATE CLASSES - Originating Entity - RATE CLASS 1	BANGOR WATER
2nd Entity	TOWNSHIP WATER
3rd Entity	IRRIGATION METERS

BANGOR WATER									
CURRENT RATE	CURRENT RATE CHARGES & NUMBER OF CUSTOMERS								
Customers Are Invoice MONTHLY PER									
BANGOR WATER									
TYPE OF WATER UNITS	100 CUFT			U's. There is a \$5.00					
COST PER 100 CUBIC FT.	\$4.66	charge added to the This is calculated in customers 9 REU	in non sales. Tl						
INVOICES PER YEAR	12								
METER SIZE IN INCHES	CURRENT "BASE RATE" CHARGE	NUMBER OF METERS / REU'S	INVOICES PER YEAR	ANNUAL INCOME					
3/4	\$21.50	769	12	\$198,402					
1	\$32.50	24	12	\$9,360					
1 1/2	\$93.00	0	12	\$0					
2	\$123.00	13	12	\$19,188					
3	\$185.00	1	12	\$2,220					
4	\$275.00	3	12	\$9,900					
6			12	\$0					
8			12	\$0					
	-								

NAME OF PERSON PROVIDING # OF METERS COUNT	
WAS A REPORT USED TO GENERATE THIS DATA?	Yes
WAS REPORT COPIED INTO THIS FILE?	No, but electronic copy was saved

810

\$239,070

TOTALS

		TOW	NSHIP WAT	ER					IRR	RIGATION ME	TERS		
TYPE OF WATER UNITS	100 CUFT		Ratio Entity # 2 vs. 1	31 total townsh	nip water custo	omers There	TYPE OF WATER UNITS	100 CUFT		Ratio Entity # 3 vs 1			
COST PER WATER UNIT	\$6.99		1.50	are 25 custom ready to serve			COST PER WATER UNIT	\$4.66		1.00			
INVOICES PER YEAR	12						INVOICES PER YEAR	12					
METER SIZE IN INCHES	CURRENT "BASE RATE" CHARGE	Ratio Entity # 2 vs. 1	Ratio Entity # 2 vs. 1	NUMBER OF METERS / REU'S	INVOICES PER YEAR	ANNUAL INCOME	METER SIZE IN INCHES	CURRENT "BASE RATE" CHARGE	Ratio Entity # 3 vs. 1	Ratio Entity # 3 vs 1	NUMBER OF METERS / REU'S	INVOICES PER YEAR	ANNUAL INCOME
3/4	\$24.75	1.15	1.15	25	12	\$7,425	3/4	\$14.00	0.65	0.65	14	12	\$2,352
1	\$41.25	1.27		0	12	\$0	1		0.00			12	\$0
1 1/2	\$132.00	1.42			12	\$0	1 1/2		0.00			12	\$0
2	\$177.00	1.44			12	\$0	2		0.00			12	\$0
3	\$270.00	1.46			12	\$0	3		0.00			12	\$0
4	\$405.00	1.47			12	\$0	4		0.00			12	\$0
6		0			12	\$0	6		0			12	\$0
8		0			12	\$0	8		0			12	\$0
				25		\$7,425				•	14		\$2,352

ADDITIONAL REU'S - APARTMEN	ITS	
Account #		
or Address	Size of	# of DELUc
of Apartment	Meter	# of REU's
508 morrison	5/8	2
301North Center	5/8	2
233 west monroe	5/8	2
241 west monroe	5/8	4
12 main street	5/8	2
111 charles street	5/8	2
555 Railroad	1	2 2
610 north center	2	2
21 west monroe	2	2
TOTAL ADDIT	IONAL REU'S	

2024	CURRENT CHARGES F	DATE CLASS 1	RATE CLASS 2		RATE CLASS 3					NEW RATES
YEAR 1	BANGOR		TOWNSH	P WATER	IRRIGATION METERS					BANGOR WATE
METER SIZE IN INCHES	NUMBER OF METERS / REU'S	INVOICE FREQUENCY	NUMBER OF METERS / REU'S	INVOICE FREQUENCY	NUMBER OF METERS / REU'S	TOTAL CUSTOMERS ALL ENTITIES	SELECTED METER EQUIVALENT	CALCULATED METER EQUIVALENT USED	ANNUAL METER EQUIVALENTS	ORIGINA ENTITY
3/4	769	12	25	12	14	808	1.00	1.00	9,683	\$20.97
1	24	12	0	12	0	24	1.78	1.78	512	\$37.28
1 1/2	0	12	0	12	0	0	4.00	4.00		\$83.88
2	13	12	0	12	0	13	7.11	7.11	1,109	\$149.12
3	1	12	0	12	0	1	16.00	16.00	192	\$335.53
4	3	12	0	12	0	3	28.44	28.44	1,024	\$596.50
TOTAL	810		25		14	849				
				A	NUAL METER	EQUIVALENTS	USED FOR RA	ATE CALCULATION	12,520	
	CHECK BOX TO CONFI	RM THAT METER FO	UIVALENT RATIO	S WERE DISCUS	SED AND					
X	CHOSEN BY COMMUN		OTTALLITY RATIO	o bloodd	OLD AILD					

This table list the number of water meters being invoiced for each size water meter. It then calculates the annual meter equivalent REU's (Residential Equivalent Meters). This figure will be used to calculate the Ready to Serve Charge for each meter size.

BANGOR WATER			UNITS OF WATER	R INVOICED TO	CUSTOMERS	FOR 1	THIS EV	ALUATION WE	WILL USE THE	AVE	RAGE	
	USAGE REPORTED IN	CUBIC FEET										
	USAGE REPORTED IN	FISCAL YEARS								PERCENT	ANTICIPATED	
	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	AVER	AGE	MAX. YEAR	MIN. YEAR	DIFFERENCE FROM MAX. TO MIN. YEAR	PERCENT INCREASE NEXT YEAR	UNITS USED IN RATE EVALUATION
BANGOR WATER	6,613,804	5,240,695	6,792,069	6,739,310	6,642,910	6,405	,758	6,792,069	5,240,695	23%	0.0%	6,405,758
TOWNSHIP WATER	155,748	139,592	163,407	177,416	149,890	157,	211	177,416	139,592	21%	0.0%	157,211
IRRIGATION METERS											0.0%	0
TOTALS	6,769,552	5,380,287	6,955,476	6,916,726	6,792,800	6,562	,968	6,969,485	5,380,287	22%		6,562,968
	WHO PROVIDED	UNITS INVOICED REPORT	Stephanie Cagle									
	WAS THE REPORT COPIE	ED INTO THIS EXCEL FILE?	No							GA	LLONS INCREASE	(1,182,681)
WA	S AN ELECTRONIC COPY	OF THE ORIGINAL KEPT?	Yes					GALI	LONS / VOLUME	E USED FOR	EVALUATION	6,562,968

The Volumes listed above are only those gallons that are a revenue source.

The gallons listed above were generated by the COMMUNITY. The COMMUNITY takes full responsibility for the accuracy of these numbers. And the anticipated units of water invoiced used to calculate the user rates. PER

CHECK BOX TO CONFIRM THAT UNITS USED FOR EVALUATION WAS DISCUSSED AND CHOSEN BY COMMUNITY

PAGE#

	10	ANNUAL	BUDGET	/ EXPENSES	INDE
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- 11 BANK BALANCES
- 12 TOTAL COMBINED CURRENT INCOME
- 13 EXPENSES
- 14 NON-SALES & OTHER REVENUE

BANGOR WATER

BALANCE PER BOOKS

BALANCES WERE OBTAINED ON DATE OF

Aug-24

\$0

CHECKING ACOUNTS

GENERAL RESERVE ACCOUNTS

INCLUDING RRI, INTEREST & REDEMPTION - ETC

RESTRICTED MONEY - RESTRICTED RESERVE ACCOUNTS
ONLY BOND RESERVE TYPE ACCOUNTS

Total Balance

Balance

\$0

Name of Account / Description Purpose Balance Name of Account / Description Purpose

Total Balance

Name of Account / Description	Purpose		Balance
WATER		\$	655,740
Total	Balance	(655,740

GENERAL CHECKING \$655,740

GENERAL RESERVE

\$0

TOTAL AVAILABLE UNRESTRICTED	\$655,740
RESTRICTED	\$0
TOTAL CASH BALANCE	\$655,740

APPLIED TO RESERVE ACCOUNTS

EQUIPMENT REPLACEMENT # 1 \$150,000

CAPITAL IMPROVEMENT \$150,000

TOTAL APPLIED TO RESERVE ACCOUNTS \$300,000

BALANCE REMAING FOR ANNUAL EXPENSES \$355,740

BANGOR WATER	र	RATE CLASS 2	RATE CLASS 3	202
	BANGOR WATER	TOWNSHIP WATER	IRRIGATION METERS	REVENUE
	New Cost per Unit of Water Sold			NEW RATES
\$ PER 100 CUFT	\$4.660	\$6.990	\$4.660	
UNITS Sold	66,429	1,499	0	67,928
Income	\$309,560	\$10,477	\$0	\$320,037
METER SIZE	NEW BASE RATE PER MONTH	1		
3/4	\$21.500	\$24.750	\$14.000	
NO. CUSTOMERS	769	25	14	
INCOME	\$198,402.00	\$7,425.00	\$2,352.00	\$208,179
1	\$32.50	\$41.25	\$0.00	
NO. CUSTOMERS	24	0	0	
INCOME	\$9,360.00	\$0.00	\$0.00	\$9,360
1 1/2	\$93.00	\$132.00	\$0.00	
NO. CUSTOMERS	0	0	0	
INCOME	\$0.00	\$0.00	\$0.00	\$0
2	\$123.00	\$177.00	\$0.00	
NO. CUSTOMERS	13	0	0	
NVOICES PER YEAR	12	12	12	
ANNUAL INVOICES	156	0	0	
INCOME	\$19,188.00	\$0.00	\$0.00	\$19,188
3	\$185.00	\$270.00	\$0.00	\$10,100
NO. CUSTOMERS	1	0	0	
NVOICES PER YEAR	12	12	12	
	12	0	0	
ANNUAL INVOICES INCOME	\$2,220.00	\$0.00	\$0.00	\$2,220
4	\$275.00	\$405.00	\$0.00	φ 2 , 22 0
-	3	0	0	
NO. CUSTOMERS	12	12	12	
NVOICES PER YEAR	36	0	0	
ANNUAL INVOICES				40.00-
INCOME	\$9,900.00	\$0.00 \$0.00	\$0.00	\$9,900
6	\$0.00	0	\$0.00	
NO. CUSTOMERS	-	12	12	
NVOICES PER YEAR	12	-	12	
ANNUAL INVOICES	0	0	0	* -
INCOME	\$0.00	\$0.00	\$0.00	\$0
		CURRENT Fixe	d Income "RTS"	\$248,847
	\$320,037			
CURRENT	INCOME - GENERATED	WITH CURRE		\$568,884
	-SALES INCOME	\$81,360		
	\$650,244			

PRIOR YEAR ACT	TUALS EXPENSES PURPOSES ONLY			BANGOR WATER	PROPOSED BUDGET FOR	YEAR 2 PROJECTED	YEAR 3 PROJECTED	YEAR 4 PROJECTED	YEAR 5 PROJECTED
					FISCAL YEAR	BUDGET	BUDGET	BUDGET	BUDGET
2021/2022	2022/2023	2023/2024		ANNUAL	PERCENT INCREASE	2.00%	2.00%	2.00%	2.00%
2021/2022	2022/2020	2020/2024	ACCT#	EXPENSES	2024	2025	2026	2027	2028
\$93,327	\$88,775	\$64,908	591-556-703.000	SALARY	\$65,000	\$66,300	\$67,626	\$68,979	\$70,358
\$43,759	\$29,138	\$37,633	591-556-706.000	HOURLY WAGES	\$40,000	\$40,800	\$41,616	\$42,448	\$43,297
\$1,376	\$521	\$626	591-556-706.001	OVERTIME	\$2,000	\$2,040	\$2,081	\$2,122	\$2,165
\$0	\$0	\$0	591-556-714.000	FRINGE BENEFITS	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	591-556-714.027	PAYMENT IN LEIU OF TAXES	\$0	\$0	\$0	\$0	\$0
\$10,527	\$9,225	\$6,587	591-556-715.000	FICA & MEDICARE	\$7,000	\$7,140	\$7,283	\$7,428	\$7,577
\$2,046	\$2,339	\$786	591-556-716.000	HEALTH INSURANCE	\$3,750	\$3,825	\$3,902	\$3,980	\$4,059
\$122,130	\$0	\$0	591-556-716.100	HEALTH INSURANCE-RETIREE	\$0	\$0	\$0	\$0	\$0
\$458	\$0	\$0	591-556-723.000	RETIREMENT CONTRIBUTIONS	\$0	\$0	\$0	\$0	\$0
\$19	\$209	\$101	591-556-724.000	UNEMPLOYMENT	\$500	\$510	\$520	\$531	\$541
\$808	\$5,450	\$429	591-556-725.000	WORK COMP	\$500	\$510	\$520	\$531	\$541
\$2,379	\$2,203	\$3,025	591-556-727.000	OFFICE SUPPLIES	\$4,800	\$4,896	\$4,994	\$5,094	\$5,196
\$12,997	\$13,859	\$20,579	591-556-740.000	OPERATING SUPPLIES	\$15,000	\$15,300	\$15,606	\$15,918	\$16,236
\$12,731	\$16,742	\$15,551	591-556-740.011	OPERATING SUPPLIES-WTR TRTMT	\$15,000	\$15,300	\$15,606	\$15,918	\$16,236
\$68,125	\$98,088	\$75,220	591-556-775.000	REPAIRS & MAINT	\$20,000	\$20,400	\$20,808	\$21,224	\$21,649
\$0	\$0	\$0	591-556-802.000	ENGINEERING	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$4,952	591-556-808.000	AUDIT	\$5,000	\$5,100	\$5,202	\$5,306	\$5,412
\$31,654	\$87,985	\$43,422	591-556-818.000	CONTRACTUAL SERVICES	\$20,000	\$20,400	\$20,808	\$21,224	\$21,649
\$0	\$1,098	\$7,954	591-556-818.001	CONTRACTUAL SERVICES LEAK-expense for service	\$10,000	\$10,200	\$10,404	\$10,612	\$10,824
\$0	\$0	\$0	591-556-818.004	MRWA/WELLHEAD PROTECTION GRANT	\$0	\$0	\$0	\$0	\$0
\$566	\$203	\$5,426	591-556-818.005	CONTRACTUAL SERVICES	\$3,000	\$3,060	\$3,121	\$3,184	\$3,247
\$0 \$908	\$8,796 \$2,736	\$0 \$1,952	591-556-826.000 591-556-850.000	LEGAL FEES COMMUNICATIONS	\$0 \$2,000	\$0 \$2,040	\$0 \$2,081	\$0 \$2,122	\$0 \$2,165
\$2,145	\$1,008	\$613	591-556-864.000	MEMBERSHIP AND DUES	\$2,000 \$1.000	\$1,020	\$1,040	\$1,061	\$1,082
\$1,295	\$1,073	\$133	591-556-900.000	PRINTING & PUBLISHING	\$500	\$510	\$520	\$531	\$541
\$334	\$9,026	\$4,458	591-556-910.000	INSURANCE & BONDS	\$5,000	\$5,100	\$5,202	\$5,306	\$5,412
\$22,709	\$26,638	\$25,384	591-556-920.000	UTILITIES	\$27,000	\$27,540	\$28,091	\$28,653	\$29,226
\$32,000	\$70,000	\$0	591-556-943.000	EQUIPMENT RENTAL Motor	\$75,000	\$76,500	\$78,030	\$79,591	\$81,182
\$3,786	\$2,875	\$931	591-556-956.001	EDUCATION & TRAINING	\$5,000	\$5,100	\$5,202	\$5,306	\$5,412
\$0	\$0	\$0	591-556-964.000	REFUNDS AND REBATES	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	591-556-967.000	GRANT EXPENDITURES-DWAM	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	591-556-968.000	DEPRECIATION	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	591-556-976.000	BUILDING IMPROVEMENTS	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	591-556-977.000	NEW EQUIPMENT	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	591-556-995.000	INTEREST	\$0	\$0	\$0 ©0	\$0 ***	\$0
					A007.055	\$0	\$0	\$0	\$0
\$466,079	\$477,986	\$320,669		TOTAL	\$327,050	\$333,591	\$340,263	\$347,068	\$354,009

	BANGOR WATER					YEAR 2	YEAR 3	YEAR 4	YEAR 5
ACCOUNT#	NON-SALES & OTHER REVENUE	2022/2023	2023/2024	2023/2024	2024	2025	2026	2027	2028
	Leak protection fee				\$360				
591-000-452.000	PLUMBING PERMITS	\$0	\$0	\$0	\$0				
591-000-529.003	l i	\$0	\$0	\$0	\$0				
591-000-529.004	STATE GRANTS - DWAM	\$0	\$0		\$0				
591-000-545.000	I	\$0	\$0	\$0	\$0				
591-000-642.000	I	\$0	\$0	\$0	\$0				ļ
591-000-642.001	LEAK PROTECTION	\$13,800	\$13,284	\$12,486	\$15,000				
591-000-642.002		\$2,317	\$2,243	\$2,493	\$2,500				
591-000-642.003	l ·	\$0	\$47,605	\$46,525	\$45,000				}
591-000-646.000	l i	\$13,334	\$11,420	-\$8,331	\$15,000				
591-000-647.000		\$1,290	\$4,103	\$750	\$2,000				}
591-000-665.000		\$0	\$0	\$0	\$0				
591-000-669.000									
591-000-670.000		\$0	\$0	\$0	\$0				
591-000-673.000		\$0	\$0	\$0	\$0				
591-000-694.000	MISCELLANEOUS INCOME \$1,150 \$2,265 \$5,3			\$5,350	\$1,000	Capital Improvement fee is now included in the RTS			
591-000-695.000	ICOME (DECREASE IN OPEB LIABILITY)	\$0	\$0	\$0	\$0	included in the K13			
591-000-695.001	ADMINISTRATION FEE	\$386	\$371	\$350	\$500				
591-000-699-500	Tranfer from fund balance		!		\$0				
			!						
	TOTAL INCOME (NON SALES)	\$32,278	\$81,291	\$59,622	\$81,360	\$0	\$0	\$0	\$0
				1					
	AVERAGE NON SALES INCOME		\$56,785	\$57,731	\$63,638	\$55,568	\$35,246	\$20,340	\$0
	Portion of (Non Sales) Revenue <u>Guarar</u>	<u>iteed</u> :				\$0	\$0	\$0	\$0
				ı					
	Percent Applied Towards Fixed Rate	RTS Charge	PERCENT ap	plied per REU	41%	41%	41%	41%	41%
	ANNUAL DOLLARS APPLIED TOWARDS <u>FIXED BUDGET</u> - BASE RATE - RTS				\$0	\$0	\$0	\$0	\$0
	TOTAL ANNUAL RESIDENTIAL EQUIVALENT UNITS "REU'S"				12,520	12,520	12,520	12,520	12,520
	REDUCTION PER REU PER BILLING PERIOD				\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	ANNUAL DOLLARS APPLII	ED TOWARDS <u>V</u>	ARIABLE BUDG	ET - PER UNIT	\$0	\$0	\$0	\$0	\$0
	ANN	UAL UNITS OF V	VATER OR SEW	/ER INVOICED	65,630	65,630	65,630	65,630	65,630
	F	EDUCTION PER	UNIT OF WATE	R OR SEWER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

A portion of this revenue will be re-applied back to the water budget to help lower the water rates.

15	CAPITAL IMPROVEMENT & EQUIPMENT REPLACEMENT INDEX
16	SHORT LIVED ASSET REPLACEMENT LIST PART 1
17	SHORT LIVED ASSET REPLACEMENT LIST PART 2
18	SHORT LIVED ASSEST REPLACEMENT FUND RUNNING BALANCE
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BANGOR WATER EQUIPMENT REPLACEMENT SHORT LIVED ASSETS

2024

SHORT LIVED ASSETS SOMEWHERE BETWEEN 0-15 OR 20 YEARS

YOUR ANTICIPATED NORMAL INTENDED USEFUL LIFE OR YEARS BETWEEN REHAB SHOULD BE BASED ON PAST MAINTENANCE HISTORY, WELL MAINTENANCE RECORDS AND WATER TOWER INSPECTION REPORTS. - A COPY OF THESE REPORTS SHOULD BE INCLUDED IN YOUR RATE EVALUATION AS AN ATTACHMENT OR APPENDIX --- ALSO NOTE; IF YOU ARE APPLYING FOR A USDA RURAL DEVELOPMENT GRANT OR HOPE TO GET A USDA GRANT - THE REMAINING YEARS OF LIFE FOR ANY EQUIPMENT CAN NOT EXCEED 15 YEARS. FOR ANYTHING - WATER METERS WATER TOWER PAINTING ETC. ONCE THE USEFUL LIFE OR NEXT ANTICIPATED MAINTENANCE IS LESS THAN 15 YEARS AWAY IT CAN BE LISTED HERE,

FIXED ASSET INVENTORY		ASSET REPLACEMENT SCHEDULE							
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION / MAINTENANCE HISTORY	ORIGINAL INSTALLATION YEAR OR <u>LAST</u> REHAB YEAR	ESTIMATED NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT ANTICIPATED REPLACEMENT YEAR	REMAINING LIFE - YEARS BEFORE REPLACEMENT	TOTAL REPLACEMENT COST	PERCENT OF ASSET LEFT	REPLACEMENT MONEY RESERVED ANNUALLY
Well #7 Cleaning	Chemical Cleaning	2020	10	4	2030	6	\$10,000	60%	\$1,000
Well #7 Pump Rehab	In need of rehab	2012	15	12	2027	3	\$15,000	20%	\$1,000
Well #7 Motor Replacement	Motor is getting old	2010	20	14	2030	6	\$15,000	30%	\$750
Well # 7 Panel Updates	Panel needs updates	2010	15	14	2025	1	\$15,000	7%	\$1,000
Well #7 SCADA	Updates needed	2015	15	9	2030	6	\$10,000	40%	\$667
Well #7 VFD	New VFD	2024	10	0	2034	10	\$10,000	100%	\$1,000
Well House #7 Building Maintenance	New Roof and Paint	2010	20	14	2030	6	\$20,000	30%	\$1,000
Well #3 Cleaning	Chemical Cleaning	2017	10	7	2027	3	\$15,000	30%	\$1,500
Well #3 Pump Rehab	In need of rehab	2010	15	14	2025	1	\$15,000	7%	\$1,000
Well #3 Motor Replacement	Motor is getting old	2012	20	12	2032	8	\$15,000	40%	\$750
Well House #3 Building Maintenance	New Roof and Paint	2005	20	19	2025	1	\$20,000	5%	\$1,000
Well #8 Cleaning	Chemical Cleaning	2023	10	1	2033	9	\$15,000	90%	\$1,500
Well #8 Pump Rehab	In need of rehab	2023	15	1	2038	14	\$15,000	93%	\$1,000
Well #8 Motor Replacement	Motor is New	2023	15	1	2038	14	\$15,000	93%	\$1,000
Well House #8 Building Maintenance	New Roof and Paint	2023	20	1	2043	19	\$20,000	95%	\$1,000

1 Bangor Water Aug 2024 - Cap in Base - Size EQ 52 EQUIPMENT REPLACEMENT 1

BANGOR WATER EQUIPMENT REPLACEMENT SHORT LIVED ASSETS

2024

SHORT LIVED ASSETS SOMEWHERE BETWEEN 0-15 OR 20 YEARS

YOUR ANTICIPATED NORMAL INTENDED USEFUL LIFE OR YEARS BETWEEN REHAB SHOULD BE BASED ON PAST MAINTENANCE HISTORY, WELL MAINTENANCE RECORDS AND WATER TOWER INSPECTION REPORTS. - A COPY OF THESE REPORTS SHOULD BE INCLUDED IN YOUR RATE EVALUATION AS AN ATTACHMENT OR APPENDIX --- ALSO NOTE; IF YOU ARE APPLYING FOR A USDA RURAL DEVELOPMENT GRANT OR HOPE TO GET A USDA GRANT - THE REMAINING YEARS OF LIFE FOR ANY EQUIPMENT CAN NOT EXCEED 15 YEARS. FOR ANYTHING - WATER METERS WATER TOWER PAINTING ETC. ONCE THE USEFUL LIFE OR NEXT ANTICIPATED MAINTENANCE IS LESS THAN 15 YEARS AWAY IT CAN BE LISTED HERE,

FIXED ASSET INVENTORY		ASSET REPLACEMENT SCHEDULE							
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION / MAINTENANCE HISTORY	ORIGINAL INSTALLATION YEAR OR <u>LAST</u> REHAB YEAR	ESTIMATED NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT ANTICIPATED REPLACEMENT YEAR	REMAINING LIFE - YEARS BEFORE REPLACEMENT	TOTAL REPLACEMENT COST	PERCENT OF ASSET LEFT	REPLACEMENT MONEY RESERVED ANNUALLY
Well #9 Cleaning	Chemical Cleaning	2015	10	9	2025	1	\$15,000	10%	\$1,500
Well #9 Pump Rehab	In need of rehab	2015	15	9	2030	6	\$15,000	40%	\$1,000
Well #9 Motor Replacement	Motor is getting old	2012	15	12	2027	3	\$15,000	20%	\$1,000
Well #9 Building Maintenance	New Roof and Paint	2010	20	14	2030	6	\$20,000	30%	\$1,000
Well #9 Panel Updates	In need of rehab	2015	15	9	2030	6	\$10,000	40%	\$667
Well #9 SCADA	New VFD	2024	10	0	2034	10	\$10,000	100%	\$1,000
Water Tower Inter wet painting		2012	20	12	2032	8	\$75,000	40%	\$3,750
Water Tower paint ext		2012	20	12	2032	8	\$75,000	40%	\$3,750
Water Tower Alarms		2012	15	12	2027	3	\$5,000	20%	\$333
GENERATOR		2012	20	12	2032	8	\$5,000	40%	\$250
RELIABILITY STUDY		2015	5	9	2020	-4	\$10,000	-80%	\$2,000
METERS AT WELL 7		2010	20	14	2030	6	\$5,000	30%	\$250
METERS AT WELL 3		2010	20	14	2030	6	\$5,000	30%	\$250
METERS AT WELL 8		2010	20	14	2030	6	\$5,000	30%	\$250
METERS AT WELL 9		2010	20	14	2030	6	\$5,000	30%	\$250
AMP		2018	5	6	2023	-1	\$10,000	-20%	\$2,000
WELL HEAD PROTECTION		2018	5	6	2023	-1	\$10,000	-20%	\$2,000
CUSTOMER METERS	50/50 SPLIT W/ SEWER	2024	15	0	2039	15	\$165,000	100%	\$11,000

\$685,000 37% \$ 47,417

EQUIPMENT REPLACEMENT SHORT LIVED ASSETS - RUNNING BALANCE SHEET						
	CURRENT RESERVE BALANCE APPLIED TO TH	COST OF LIVIN		2.00%		
	\$150,000					
	0.10%					
	ANNUAL COLA ADJUSTMENT AS ADO	OPTED BY COUNCIL	0.00%			
	Annual Funding Appli	ed to Budget / Rates	\$ <u>50,000</u>			
YEAR	PURPOSE	ANNUAL REPLACEMENT EXPENDITURES WITH C.O.L.	FUNDING WITH COLA	RUNNING BALANCE		
2024	SEE EQUIPMENT LIST FOR DETAILS OF	\$0	\$ <u>50,000</u>	\$200,200		
2025	ANTICIPATED PURCHASES	\$76,500	\$50,000	\$173,900		
2026		\$0	\$50,000	\$224,074		
2027		\$53,000	\$50,000	\$221,298		
2028		\$21,600	\$50,000	\$249,919		
2029		\$0	\$50,000	\$300,169		
2030		\$145,600	\$50,000	\$204,870		
2031		\$0	\$50,000	\$255,074		
2032		\$197,200	\$50,000	\$108,130		
2033		\$41,300	\$50,000	\$116,938		
2034		\$24,000	\$50,000	\$143,055		
2035		\$30,500	\$50,000	\$162,698		
2036		\$0	\$50,000	\$212,860		
2037		\$18,900	\$50,000	\$244,173		
2038		\$64,000	\$50,000	\$230,417		
2039		\$214,500	\$50,000	\$66,148		
2040		\$66,000	\$50,000	\$50,214		
2041		\$0	\$50,000	\$100,264		
2042		\$47,600	\$50,000	\$102,764		
2043		\$75,900	\$50,000	\$76,967		
2044		\$28,000	\$50,000	\$99,044		
				\$231,000		

BANGOR WATER	2024					
CAPITAL IMPROVEMENT PROJECT			PI	ERCENT DOW	NPAYMENT	10%
CAPITAL IMPROVEMENT IDEAS WERE G	ENERATED FROM					
MRWA DOES NOT RECOMMEND OR SUGGEST	FINANCING OPTIONS.				VOCATES TO	DECIDE WHAT
FINANCING OF	HONS WORK BEST FO	OR THEM AND THE	IK FOTOKE FF	OJECTS.		
ENTER ITEMS ON THIS PAGE FIRST - THEN SEE INC	DIVIDUAL PAGES FOR	ENTERING DETAIL	S ON EACH PR	OJECT -		
CAPITAL PROJECTS - FOR DETAILS OF EACH PROJECT SEE INDIVIDUAL PAGES	ESTIMATED PROJECT COST	CASH CONTRIBUTION FROM RATES	AMOUNT FINANCED	COMPLETE IN YEAR OF	IS THIS YEAR FLEXIBLE?	MONEY NEEDED ANNUALLY
HYDRANT REPLACEMENTS - 5 PER YEAR	\$300,000	\$300,000	\$0	2035		\$27,273
			\$0			\$0
			\$0			\$0
			\$0			\$0
			\$0			\$0
			\$0			\$0
			\$0			\$0
			\$0			\$0
			\$0			\$0
			\$0			\$0
			\$0			\$0
INDUSTRIAL PARK LOOP EXT	\$1,200,000	\$600,000	\$600,000	2026		\$300,000
SERVICE LINE REPLACEMENTS	\$5,250,000	\$2,625,000	\$2,625,000	2040		\$164,063
			\$0			\$0
			\$0			\$0
			\$0			\$0
			\$0			\$0
			\$0			\$0
			\$0			\$0
			\$0			\$0
	\$6,750,000	\$3,525,000	\$3,225,000			\$491,335

CAPITAL IMPROVEMENT RUNNING BALANCE PROJECTIONS & ANNUAL FUNDING

ANNUAL COST OF LIVING INCREASE TO PROJECTS 2.00%

RESERVE BALANCE APPLIED TO CAPITAL IMPROVEMENTS \$150,000

AVG. INTEREST RATE IN SAVINGS 0.00%

IF AN ANNUAL COLA RATE ADJUSTMENT PERCENT OF 2.00%

RUNNING BALANCE COLUMN REFLECTS THIS FUND ONLY. THE AVERAGE ANNUAL FUNDING DOES NOT REFLECT ANY EXTRA REVENUE GENERATED BY FUTURE ANNUAL RATE INCREASES. FOR A TRUE RUNNING BALANCE OF THE OVERALL HEALTH OF THE WATER SYSTEM SEE THE 10 YEAR

YEAR	ANNUAL EXPENDITURES	AVERAGE ANNUAL FUNDING AMOUNT IN RATE BUDGET	RUNNING BALANCE
2024	\$0	\$ <u>195,000</u>	\$345,000
2025	\$0	\$198,900	\$547,800
2026	\$624,000	\$202,878	\$130,656
2027	\$0	\$206,936	\$341,649
2028	\$0	\$211,074	\$556,862
2029	\$0	\$215,296	\$776,379
2030	\$0	\$219,602	\$1,000,287
2031	\$0	\$223,994	\$1,228,673
2032	\$0	\$228,474	\$1,461,626
2033	\$0	\$233,043	\$1,699,239
2034	\$0	\$237,704	\$1,941,603
2035	\$366,000	\$242,458	\$1,822,815
2036	\$0	\$247,307	\$2,074,972
2037	\$0	\$252,253	\$2,332,171
2038	\$0	\$257,298	\$2,594,515
2039	\$0	\$262,444	\$2,862,105
2040	\$3,465,000	\$267,693	(\$329,953)
2041	\$0	\$273,047	(\$51,552)
2042	\$0	\$278,508	\$232,417
2043	\$0	\$284,078	\$522,065
2044	\$0	\$289,760	\$817,507

CITY OF BANGOR

WATER RATE

CALCULATION REPORT

PAGE#

<u>21</u>	CONCLUDING PAGES - RESULTS OF RATE EVALUATION INDEX
22	FINAL ANALYSIS RATE CALCULATION - CURRENT FISCAL YEAR
23	SUMMARY OF NEW CHARGES "ALL ENTITIES"
24	TYPICAL CUSTOMER BILL
25	10 YEAR PROJECTIONS - SUMMARY
26	10 YEAR PROJECTIONS - REVENUES
27	10 YEAR PROJECTIONS - EXPENSES
28	CONCLUSION OF ANALYSIS
29	CONFIRMATION OF INCOME

MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM

FINAL ANALYSIS RATE CALCULATION - CURRENT FISCAL YEAR	2024			RTS CHARGE		VOLUME CHARGE
		PERCENT	ASSIGNED AS	COST PER	ASSIGNED AS	\$ COST PER
BANGOR WATER	ANNUAL BUDGET	FIXED EXPENSES	FIXED EXPENSES	METER EQUIVALENT	VARIABLE EXPENSES	100 CUBIC FEET
EXPENSES	\$327,050	41%	\$133,158	\$10.64	\$193,892	\$2.919
OPERATION & MAINTENANCE EXPENSES	\$327,050		\$133,158	\$10.64	\$193,892	\$2.919
DEBT - PRINCIPAL & INTEREST ANNUAL PAYMENTS	Ι					
	\$0	100%	\$0	\$0.00	\$0	\$0.00
NEW ANTICIPATED CAPITAL LOANS	7.			*****		*****
NEW ANTIGIPATED CAPITAL EDANG	60	100%	C O	£0.00	¢0	¢0.00
ANNUAL DEBT PAYMENTS PRINCIPAL & INTEREST	\$0 \$0	100%	\$0 \$0	\$0.00 \$0.00	\$0 \$0	\$0.00 \$0.00
	ų,		Ψū	Ψ0.00	Ų.	\
ANNUAL O & M + DEBT	\$327,050		\$133,158	\$10.64	\$193,892	\$2.92
			41%		59%	
NON SALES INCOME	\$0		\$0	0.000	\$0	0.000
REVENUE COLLECTED THROUGH RATES	\$327,050		\$133,158		\$193,892	
CALCULATED RATE O & M + DEBT	METER EQUIVALENT		MONTH	\$10.64		\$2.92
			CURRENT RATE	\$21.50		\$4.66
			INCREASE	(\$10.86)		(\$1.74)
			PERCENT INCREASE	-51%		-37%
OVERALL PERCENT INCREASE FOR GALLONS OF	4,000		0%			
RESERVES	<u> </u>					
EQUIPMENT REPLACEMENT AVERAGE ANNUAL BUDGETED AMOUNT	1 \$50,000 1	100%	\$50,000	\$3.99	\$0	\$0.00
EQUIPMENT REPLACEMENT & RESERVE REQUIREMENTS	\$50,000		\$50,000	\$3.99	\$0	\$0.00
CAPITAL IMPROVEMENT AVERAGE ANNUAL BUDGETED AMOUNT	I \$195,000 I	41%	\$79,394	\$6.34	\$115,606	\$1.74
PREP FOR FUTURE LOAN	\$0		\$0			
BUDGETED ADDITIONAL REVENUE FROM VOLUME SALES	\$0				\$0	\$0.00
CAPITAL + ADDITIONAL FUNDING	\$195,000		\$79,394	\$6.34	\$115,606	\$1.74
CAPITAL + EQUIPMENT & RRI RESERVES	\$245,000		\$129,394	\$10.33	\$115,606	\$1.74
ADOPTED BUDGET	\$572,050		\$262,553		\$309,497	
		40.72%	46%		54%	
REVENUE COLLECTED CALCULATED RATES	\$572,050		\$262,553		\$309,497	
REVENUE COLLECTED CURRENT RATES	\$568,884				DATE DED 400	
CALCULATED RATE PER METER EQUIVALE	ENT		PER MONTH	\$20.97	RATE PER 100 CUFT	\$4.66
ANNUAL METER EQUIVALENTS / REU'S COUNT 12,520			CURRENT RATES	\$21.50		\$4.66
ANTICIPATED EQUIVALENT GALLONS / UNITS 66,416			PERCENT INCREASE	-2.5%		0.0%
INVOICES PER YEAR 12	I		INCREASE OF	(\$0.53)		\$0.00

		BANGOR W				TOWNSHI	P WATER		IRRIGATION METERS			
	CURRENT	NEW		DIFFERENCE			CURRENT	NEW		CURRENT	NEW	
PER 100 CUFT	\$4.66	\$4.66		\$0.00			\$6.99	\$6.99		\$4.66	\$4.66	
2024	CURRENT	NEW			DIFFERENCE / 3	DIFFERENCE / 3 CURREN		NEW		CURRENT	NEW	
METER SIZE IN INCHES	READY TO SERVE PER MONTH	READY TO SERVE PER MONTH	METER RATIO FACTOR - REU'S PER METER SIZE	DIFFERENCE PER MONTH			READY TO SERVE PER MONTH	READY TO SERVE PER MONTH		READY TO SERVE PER MONTH		
3/4	\$21.50	\$20.97	1.00	-\$0.53	-\$0.18		\$24.75	\$24.14		\$14.00	\$13.66	
1	\$32.50	\$37.28	1.78	\$4.78	\$1.59		\$41.25	\$42.92		\$0.00	\$24.28	
1 1/2	\$93.00	\$83.88	4.00	-\$9.12	-\$3.04		\$132.00	\$96.56		\$0.00	\$54.62	
2	\$123.00	\$149.12	7.11	\$26.12	\$8.71		\$177.00	\$171.67		\$0.00	\$97.10	
3	\$185.00	\$335.53	16.00	\$150.53	\$50.18		\$270.00	\$386.25		\$0.00	\$218.48	
4	\$275.00	\$596.50	28.44	\$321.50	\$107.17		\$405.00	\$686.66		\$0.00	\$388.42	
6	\$0.00	\$1,342.11	64.00	\$1,342.11	\$447.37		\$0.00	\$1,544.99		\$0.00	\$873.93	
8	\$0.00	\$0.00	0.00	\$0.00	\$0.00		\$0.00	\$0.00		\$0.00	\$0.00	

These are the rates calculated for each meter size. Also for the cost per unit of water sold for each entity.

TYPICAL BIL	L COMPARISO	ON USING NE	W RATES				
	BANGOR WATER						
	<u>c</u>	URRENT RATES	NEW / CALCU	ILATED RATES			
	RTS	\$21.50		0.97			
	COST PER UNIT	\$4.66	\$4	7.66			
	COST PER UNIT OF WATER	\$4.66	MONTHLY				\$ PER 100 CUFT
METER SIZE IN INCHES	CUBIC FT USED	VOLUME CHARGE	BASE RATE CHARGE	NEW BILL	OLD BILL	CHANGE IN BILL	PERCENT INCREASE
3/4	1,000	\$46.60	\$20.97	\$67.57	\$68.10	(\$0.53)	-0.8%
3/4	3,000	\$139.80	\$20.97	\$160.77	\$161.30	(\$0.53)	-0.3%
3/4	4,000	\$186.40	\$20.97	\$207.37	\$207.90	(\$0.53)	-0.3%
3/4	6,000	\$279.60	\$20.97	\$300.57	\$301.10	(\$0.53)	-0.2%
3/4	10,000	\$466.00	\$20.97	\$486.97	\$487.50	(\$0.53)	-0.1%
	•				=		=
1	50,000	\$2,330.00	\$37.28	\$2,367.28	\$2,362.50	\$4.78	0.2%
1 1/2	75,000	\$3,495.00	\$83.88	\$3,578.88	\$3,588.00	(\$9.12)	-0.3%
2	25,000	\$1,165.00	\$149.12	\$1,314.12	\$1,288.00	\$26.12	2.0%
3	200,000	\$9,320.00	\$335.53	\$9,655.53	\$9,505.00	\$150.53	1.6%
4	100,000	\$4,660.00	\$596.50	\$5,256.50	\$4,935.00	\$321.50	7%
6	400,000	\$18,640.00	\$1,342.11	\$19,982.11	\$18,640.00	\$1,342.11	7%
8	500,000	\$23,300.00	\$0.00	\$23,300.00	\$23,300.00	\$0.00	0%
GALLONS INC	LUDED MIN BILL			0	0		

THIS PAGE REFLECTS THE CALCULATED RATES CHARGES FROM THE FINAL ANALYSIS CURRENT YEAR. IT INCLUDES A COLA ON THE O&M & LABOR EXPENSES

BANGOR WATER

TEN YEAR PROJECTIONS PAGE

SUMMARY	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8	YEAR 9	YEAR 10
TOTAL REVENUE	\$572,050	\$583,491	\$595,161	\$607,064	\$619,205	\$631,589	\$644,221	\$657,106	\$670,248	\$683,653
REGULAR ANNUAL EXPENESES	\$327,050	\$333,591	\$340,263	\$347,068	\$354,009	\$361,090	\$368,311	\$375,678	\$383,191	\$390,855
GAINS/ LOSSES BEFORE EQUIPMENT & CAPITAL	\$245,000	\$249,900	\$254,898	\$259,996	\$265,196	\$270,500	\$275,910	\$281,428	\$287,057	\$292,798
TOTAL COMBINED EQUIPMENT & CAPITAL ACTICIPATED EXPENDITURES	\$0	\$76,500	\$624,000	\$53,000	\$21,600	\$0	\$145,600	\$0	\$197,200	\$41,300
TOTAL ANTICIPATED ACTUAL CASH ANNUAL EXPENDITURES	\$327,050	\$410,091	\$964,263	\$400,068	\$375,609	\$361,090	\$513,911	\$375,678	\$580,391	\$432,155
GAINS / LOSSES FOR FISCAL YEAR <i>AFTER</i> EQUIPMENT & CAPITAL	\$245,000	\$173,400	(\$369,102)	\$206,996	\$243,596	\$270,500	\$130,310	\$281,428	\$89,857	\$251,498
<u>STARTING</u> CASH AVAILABLE / BANK BALANCE	\$655,740									
ANTICIPATED END OF YEAR - AVAILABLE CASH BALANCE	\$900,740	\$1,074,140	\$705,038	\$912,034	\$1,155,630	\$1,426,130	\$1,556,439	\$1,837,867	\$1,927,724	\$2,179,222

]					
CALCULATED REVEN		PERCENT INCR	EASE ON <u>"RTS"</u>								
		2.0%	2.0%	2.0%	2.0%		2.0%	2.0%	2.0%	2.0%	2.0%
	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5		YEAR 6	YEAR 7	YEAR 8	YEAR 9	YEAR 10
CALCULATED RATE CHARGE PER "METER EQUIVALENT" / REU	\$20.97	\$21.39	\$21.82	\$22.25	\$22.70		\$23.15	\$23.62	\$24.09	\$24.57	\$25.06
ANNUAL METER EQUIVALENTS / REU'S COUNT	12,520	12,520	12,520	12,520	12,520		12,520	12,520	12,520	12,520	12,520
<u>REVENUE</u> FROM METER EQUIVALENT CHARGE (RTS)	\$262,552.68	\$267,803.73	\$273,159.81	\$278,623.00	\$284,195.46		\$289,879.37	\$295,676.96	\$301,590.50	\$307,622.31	\$313,774.75
		-	-	-	-			-	-	-	-
		PI	ERCENT INCREASI	ON <u>COST PER UI</u>	<u>IIT</u>						
		2.0%	2.0%	2.0%	2.0%		2.0%	2.0%	2.0%	2.0%	2.0%
CALCULATED RATE CHARGE PER UNIT OF WATER / SEWER	\$4.66	\$4.75	\$4.85	\$4.95	\$5.04		\$5.15	\$5.25	\$5.35	\$5.46	\$5.57
<u>REVENUE</u> FROM VOLUME SALES	\$309,497.32	\$315,687.27	\$322,001.01	\$328,441.03	\$335,009.85		\$341,710.05	\$348,544.25	\$355,515.14	\$362,625.44	\$369,877.95
NON-SALES / OTHER REVENUE											
TOTAL NON-SALES & OTHER INCOME	\$62,860	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0
TOTAL NON-SALES & OTHER INCOME APPLIED TO WATER BUDGET	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0
TOTAL COMBINED REVENUE	\$572,050	\$583,491	\$595,161	\$607,064	\$619,205		\$631,589	\$644,221	\$657,106	\$670,248	\$683,653

EXPENSES	BU	DGET FOR FI	SCAL YEARS	STARTING		Ī	1				
	2024	2025	2026	2027	2028		2029	2030	2031	2032	2033
			INCREASE (COST								
EXPENSES		2.0%	2.0%	2.0%	2.0%		2.0%	2.0%	2.0%	2.0%	2.0%
EXPENSES	\$327,050	\$333,591	\$340,263	\$347,068	\$354,009		\$361,090	\$368,311	\$375,678	\$383,191	\$390,855
TOTAL O&M EXPENSES	\$327,050	\$333,591	\$340,263	\$347,068	\$354,009		\$361,090	\$368,311	\$375,678	\$383,191	\$390,855
					-					-	-
DEBT EXPENSES - PRINCIPAL & INTEREST		2025	2026	2027	2028		2029	2030	2031	2032	2033
	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0
NEW ANTICIPATED CAPITAL LOANS											
\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0
ANNUAL DEBT PAYMENTS PRINCIPAL & INTEREST	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0
NEW BUDGET LINE ITEMS STARTING YEAR 2			\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0
NEW BUDGET LINE ITEMS STARTING YEAR 2			\$0	\$0	\$0	Г	\$0	\$0	\$0	\$0	\$0
MINIMUM REQUIRED EXPENSES / BUDGET	\$327,050	\$333,591	\$340,263	\$347,068	\$354,009		\$361,090	\$368,311	\$375,678	\$383,191	\$390,855
GAINS / LOSSES_ <u>BEFORE</u> EQUIPMENT & CAPITAL EXPENSES	\$245,000	\$249,900	\$254,898	\$259,996	\$265,196		\$270,500	\$275,910	\$281,428	\$287,057	\$292,798
		ļ.,		.							
EQUIPMENT REPLACEMENT ANTICIPATED ACTUAL EXPENDITURES	\$0	\$76,500	\$0	\$53,000	\$21,600		\$0	\$145,600	\$0	\$197,200	\$41,300
CAPITAL IMPROVEMENT <u>ANTICICIPATED EXPENDITURES</u>	\$0	\$0	\$624,000	\$0	\$0		\$0	\$0	\$0	\$0	\$0
TOTAL COMBINED EQUIPMENT & CAPITAL ACTICIPATED EXPENDITURES	\$0	\$76,500	\$624,000	\$53,000	\$21,600		\$0	\$145,600	\$0	\$197,200	\$41,300
TOTAL ANTICIDATED ACTUAL CACUL						\vdash					
TOTAL ANTICIPATED ACTUAL CASH ANNUAL EXPENDITURES	\$327,050	\$410,091	\$964,263	\$400,068	\$375,609		\$361,090	\$513,911	\$375,678	\$580,391	\$432,155
					•						
GAINS / LOSS FOR FISCAL YEAR - AFTER EQUIPMENT & CAPITAL EXPENDITURES	\$245,000	\$173,400	-\$369,102	\$206,996	\$243,596		\$270,500	\$130,310	\$281,428	\$89,857	\$251,498
<u>STARTING</u> CASH AVAILABLE / BANK BALANCE	\$655,740										
ENDING CASH AVAILABLE / BANK BALANCE	\$900,740	\$1,074,140	\$705,038	\$912,034	\$1,155,630		\$1,426,130	\$1,556,439	\$1,837,867	\$1,927,724	\$2,179,222

BANGOR WATER									
COST PER	CURRENT RATES	CALCULATED RATES	DIFFERENCE						
100 CUFT	\$4.66	\$4.660	\$0.00						
	READY TO SERVE (RTS) CHARGES PER MONTH								
METER SIZE IN INCHES	CURRENT RATES	CALCULATED RATES	DIFFERENCE						
3/4	\$21.50	\$20.971	(\$0.53)						
1	\$32.50	\$37.28	\$4.78						
1 1/2	\$93.00	\$83.88	(\$9.12)						
2	\$123.00	\$149.12	\$26.12						
3	\$185.00	\$335.53	\$150.53						
4	\$275.00	\$596.50	\$321.50						

The above rates are based on an input budget of
The above rates are based on invoicing the following gallons of water / sewer
The above rates are based on the following number of customers
The above rates are based on the following number of Residential Equivalent Units (REU's)

\$572,050
6,562,968
849
12,520

If all numbers listed above stay true the new calculated rates will generate the input budget "exactly". Not a penny more or a penny less.

This Rate Analysis uses "Full Cost Pricing" to determine the user fees.

The above table shows the Current Rate, the new Calculated Rate, and the difference between the current and new rate changes.

Full Cost Pricing Is:

Maintaining your system's financial stability by ensuring a sufficient revenue stream.

Collect and reserve the funds needed to cover the costs of future asset rehabilitation and compliance with future regulations, among other things.

Plan ahead for reasonable, gradual rate increases when necessary.

Deliver a fair priced, high-quality drinking water to your customers now and in the future.

NOTE:

The above CALCULATED RATES will generate only enough to meet the current budge input into the rate analysis program. In order to charge a lesser amount, the budget must first be reduced.

This page provides confirmation of income based on the results of the rate analysis, if the calculated rates below are adopted. It only applies to this current or upcoming fiscal year. See five year projections for additional information.

below are adop	ted. It only applies to this current or u additional inf		ear. See five year	r projections for				
CONFIRMAT	ION OF INCOME - BASED	ON CALCU	ILATED RA					
BANGOR WATE	R	RATE CLASS 2	RATE CLASS 3	2024				
	BANGOR WATER	TOWNSHIP WATER	IRRIGATION METERS	REVENUE				
	New Cost per Unit of Water Sold			NEW RATES				
\$ PER 100 CUFT	\$4.660	\$6.990	\$4.660					
UNITS Sold	64,058	1,572	0	65,630				
Income	\$298,508	\$10,989	\$0	\$309,497				
				T				
	NON SALES INCOME			\$0				
	TOTAL ANTICIPA	ILED KEVENUE P	ER UNII SALES	\$309,497				
METER SIZE	NEW BASE RATE PER MONTH							
3/4	\$20.971	\$24.140	\$13.655					
NO. CUSTOMERS	769	25	14					
INVOICES PER YEAR	12	12	12					
ANNUAL INVOICES	9,228	300	168					
INCOME	\$193,516.06	\$7,242.15	\$2,294.08	\$203,052				
1	\$37.28	\$42.92	\$24.28	,				
NO. CUSTOMERS	24	0	0					
INVOICES PER YEAR	12	12	12					
ANNUAL INVOICES	288	0	0					
INCOME	\$10,736.91	\$0.00	\$0.00	\$10,737				
1 1/2	\$83.88	\$96.56	\$54.62					
NO. CUSTOMERS	0	0	0					
INVOICES PER YEAR	12	12	12					
ANNUAL INVOICES	0	0	0					
INCOME	\$0.00	\$0.00	\$0.00	\$0				
2	\$149.12	\$171.67	\$97.10					
NO. CUSTOMERS	13	0	0					
INVOICES PER YEAR	12	12	12					
ANNUAL INVOICES	156	0	0					
INCOME	\$23,263.31	\$0.00	\$0.00	\$23,263				
3	\$335.53	\$386.25	\$218.48					
NO. CUSTOMERS	1	0	0					
INVOICES PER YEAR	12	12	12					
ANNUAL INVOICES	12	0	0					
INCOME		\$0.00	\$0.00	\$4,026				
4	\$596.50	\$686.66	\$388.42					
NO. CUSTOMERS	3	0	0					
INVOICES PER YEAR	12	12	12					
ANNUAL INVOICES	36	0	0					
INCOME		\$0.00	\$0.00	\$21,474				
6	\$1,342.11	\$1,544.99	\$873.93					
NO. CUSTOMERS	0	0	0					
INVOICES PER YEAR	12	12	12					
ANNUAL INVOICES	0	0	0					
INCOME	\$0.00	\$0.00	\$0.00	\$0				
	\$262,553							
	\$0 \$262,553							
	TOTAL ANTICIPATED REVENUE BASE RATE / RTS + NONE SALES INCOME							
	TOTAL COMBINED CUSTOMER INCO	DME = BASE RATE	+ VOLUME INCOME	\$572,050				
	тот	TAL COMBINED CU	STOMER INCOME	\$572,050				

Budget Goal

Difference

\$572,050

\$0