



# **Town of Bar Harbor**

## **FY25 Water Budget**





**Town of Bar Harbor**

**FY 2025 Water Budget**

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# Memo

**To: Town Councilors; James Smith, Town Manager**

From: Bethany Leavitt, Public Works Director and Sarah Gilbert, Treasurer

CC: Brady Anderson Interim Superintendent

Date: 12/10/2024

Re: Water Budget Message – FY2025 Water Budget

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## Summary

This FY2025 budget for the Bar Harbor Water Division proposes the following changes from last year's 2024 budget:

- **A 4/1/25 revenue increase is proposed of 30%**
- **Gross capital expenditures from internal funds projected at \$1,080,940**
- **A 1.3% budgeted increase of consumption due to new construction/accounts**
- **A 30% budgeted increase of operating expenses due to increased cost of materials and supplies as well as increased cost of repairs and maintenance**

Revenues in FY25 are projected to be 30% higher than the FY24 budget. Total operating expenses, including depreciation, over the 2024 budget are anticipated to increase by 30%. Capital spending is requested at \$1,080,940 covered by previously internally generated funds as well as new appropriations. The fiscal year just ending (FY24) projects a decrease of cash of approximately \$660,389 primarily because of deferred capital spending. Next year, we are budgeting for \$325,501 in cash drawn down because of increased capital spending funded by cash reserves.

## Major Highlights to the Budget

Design of the Up Island Storage Tank/Priority Infrastructure Project began late summer 2023. These upgrades may have an economic impact on both residents and businesses, so revenues and related variable expenses may be high or low depending on contractor costs. Revenues in the Commercial categories and the volume of chemicals used for water treatment may vary widely from the budget. We would like to request to the PUC for a rate increase effective this budget to take effect for the last billing of FY2025. A portion of the future rate increase is because there hasn't been an increase in the water rate structure for over eight (8) years, high inflation rates due to current economy, and bonding for Priority Infrastructure Improvements.

## **Town of Bar Harbor**

### **FY2025 Water Budget**

#### **Statistical Infrastructure & Operational Data of the Water Division**

There are 1804 metered customers, of which 72%, or 1299 accounts, are classified as Residential. 19.7% of these total metered customers as well as 20.2% of the related revenue volume are seasonal customers. All customers generally receive their bills quarterly. The remaining 505 accounts are commercial. There are 113 customers related to non-metered sprinkler and private hydrant fire protection.

*Investment* in water treatment plant and infrastructure totals increased by \$9.5 million since the Town purchased the Water Company in 2001. The water *mains* in its service areas total 29.3 miles with distribution pipe sized from 1” to 16”. Since 2001 the Division has invested in 9.4 miles of new mains while retiring 7.7 miles. Design capacity is approximately 2400 gallons per minute. 365 million gallons are sent through the transmission mains annually with about 20% unaccounted for; down from over 25% ten years ago. Jackson Lab represents 27% of the total measured volume for the division and can run as high as 45% of the volume in the Winter quarter. The Lab generates 8.3% of the Water Division’s total revenues and 12.7%, of the metered revenues in 2024. The Jackson Lab has been keeping close to their estimates of water usage (stable use, despite the Ellsworth facility coming on line). Management/Accounting administrative fees charged by the Town to the Water Division have remained relatively stable since 2001, this fiscal year will include engineering, survey and asset management service associated with the Infrastructure improvements. The Water utility also pays the Town’s General Fund (CIP) for 1/3 of the Public Works facility debt service costs for the use of the facility. The latest 2023 annual filing with the *Public Utilities Commission* provides additional detail operating data and is located on the State PUC website as well as on the Town website under the Water Division of Public Works.

#### **Current Water Rates & Average Customer Bill**

- A minimum quarterly bill currently under this budget allowing 1200 cubic feet through a 5/8” meter of \$76.17 per quarter will remain at that level for quarters 1-3. Water rates are regulated by the Maine Public Utilities Commission. The Town has engaged Olver Associates to prepare a rate study, complete with three options for rate structures. Once the study is complete, the Town Council will have the opportunity to review these structures, before presented to the PUC for approval.
- *USDA-Rural Development*, the federal organization that provides grant and loan funds for qualifying utilities, has used a 2000 cubic feet per quarter standard to compare usage for a typical family household among all the utilities. At the current rates, 8000 cubic feet in annual water usage totals to \$484 per annum for a family of four in Bar Harbor or \$40.33 per month.

#### **Volume**

This budget assumes an increase in volume of 1.3% from the FY 24 budget. The trend certainly has stabilized from the previous downtrends in the last few years, but the COVID19 impact is perhaps only reflected as a moderate rebound at this point. All categories do show an expected increase from FY25 estimates, specifically commercial. For budgeting, we continue to assume little change in water volume from JaxLab as they expand the use of its Ellsworth production facility, but also new on site housing needs. Their last long term water use projections provided to the Town have shown generally level usage for the next few years.

## **Town of Bar Harbor**

### **FY2025 Water Budget**

#### **Revenues**

The 2025 budget assumes a 30% increase in gross revenue. The estimated rate increase for the 4/1/25, will generate an additional \$477,528 in revenue. A dry or wet season (volume usage) is typically the largest factor in our fluctuation of revenues along with Jackson Lab mice production fluctuation being another significant factor. The Town bills in advance, with the excess billed in arrears.

#### **Operating Expenditures**

The proposed FY2025 water budget reflects a 30% overall increase in operating expenses over the FY '24 year's estimated final expenses. Payroll and benefits, in total, are anticipated to reflect an 31% increase, due to being fully staffed. The Water staff joined the Teamsters union effective 7/1/22 and their employment contract will expire at the end of this fiscal year, 6/30/2025. Job descriptions were updated, staff cross trained for work in other Public Works positions. The Utilities Superintendent position shared with Wastewater, was eliminated for FY23.

**Major line item budget increases in projected cash expenses anticipated in FY2025 above last year's actual spending are as follows:**

- Wages #5100, Full Time Superintendent
- Benefits-#5210...MPERS employer contribution increase
- Contractual Services-Engineering #5326, Capital projects
- Contractual Services-Asset Management #5390, new software implementation
- Materials&Supplies-Flouride,#5425, Chemical price increase
- Materials&Supplies-CO2, #5426, increased pricing
- Repairs&Maintenance, #5602 Buildings Duck Brook

#### **What Were the Results of Actual FY24 Operating Expenses vs the FY24 Budget?**

The Water Division's FY'24 projected actual operating expense results will end 9.5% under the target of its 2024 spending budget this year, or, pre audit, \$165,000 under budget estimates.

#### **Public Fire Protection** (Hydrant Revenues)

Included in the budget revenue is the PUC mandated annual public fire protection amount authorized for the utility to charge the Town for its downtown fire protection. It was stated in prior budget hearings that it is formula driven, calculated by our rate case consultant in accordance with PUC standards in line with the State Statutes. A copy of that calculation is included in the Town's last rate case located on the Town website. The utility maintains 106 public hydrants in the downtown area out to Hulls Cove.

**Public Fire Protection History** - To provide public fire protection a utility generally must size its infrastructure 2 to 3 times larger. Variables within that formula include the estimated year round population as

## **Town of Bar Harbor**

### **FY2025 Water Budget**

well as the total reported gallons pumped. However, the results do have an overall regulatory cap of 30% of total revenues that can be derived as public hydrant revenues—in Bar Harbor’s situation, this charge of \$711,626 to the Town’s taxpayers is shown as an expense in the Town Budget and as revenue in this Water budget. This amount will be prorated to both funds. These funds are used for the general operations of the Water Division, including debt service. All other revenues raised come from either specific user fees, or private fire protection (hydrants/sprinklers).

In 2023 the Town maintained its ISO (*Insurance Services Office*) rating, which over time may lower fire insurance premiums for home and business owners. This rating is a 4/4x which reflects the Town’s continued measurable improvement in its fire department funding & operations (50% of the rating) and by its continued replacement of older mains and hydrants (40% of the rating), by measuring increasing peak flows towards a 3500 gpm target. These efforts contribute to improved fire response capability.

### **Annual Drinking Water Quality Report**

This annual report by the Federal Safe Drinking Water Act is sent to all customers of the Water Division. There were no water quality violations in calendar 2023. Due to the continued exceptional water quality of our source, the surrounding protection of the watershed, the water system has a filtration waiver. Under the State’s Safe Water Drinking Program, the water Division has both a type of chlorination and UV lighting to protect its supply. Lime and CO2 treatment are also added for both PH control as well as pipe corrosion control.

### **Debt Service**

As of June 30, 2024, total principal in obligated debt for the water users stands at \$7,991,436, or approximately 1.3% of all direct debt obligations of the Town. In the FY2025 budget, the debt service is projected to be at \$878,161 or approximately 29.7% of the total annually revenues presently generated the All current debt is currently fully funded within the proposed rate structure with interest rates ranging from 1.5% to 5%.

**Current Debt**—the 5 year CIP spending plan shows \$5,440,727 approved at June 7, 2022, Town Meeting for Water Projects over the next four years. The Town borrowed these funds in Summer of 2023 to implement the recommendations outlined in the Master Plan as well as replace one pump station. This will impact current and future rates. There are projects that were postponed a few years back, but with the Wastewater CSO capital costs, there will be synergies and cost saving to proceed with projects simultaneously.

### **Capital Outlay**

The Town has invested \$10,800,000 (*70% from bonds*) on capital improvements since the purchase of the company in 2001. In fiscal year 2023/24 the Water division spent or committed \$1,304,626 for necessary capital investments. The proposed FY’25 capital spending is \$3,076,900, funded by operating cash flow, cash reserves, bond monies, and CDS grant – excluding debt service. The Priority Infrastructure bond spending planned for FY25 is \$1,923,200. In FY25 we anticipate drawing down \$325,501 of available Fund Balance surplus to pay cash for the identified capital expenditures.

## Town of Bar Harbor

### FY2025 Water Budget

#### FY 2025 Capital Spending (CIP) Highlights

<b>Mains</b>	<b>\$392,700</b> -Replacements for Newton Way and Des Isle
<b>Mains</b>	<b>\$973,200</b> -Replacement Ash Street, Hancock St., GlenMary&Shannon Bond funded
<b>Paving</b>	<b>\$80,000</b> -Regrade JAX tank driveway
<b>Paving</b>	<b>\$35,000</b> -Pumphouse
<b>Up Island Tank</b>	<b>\$450,000</b> -Egineering and Tank initial payment CDS funded
<b>Mains</b>	<b>\$950,000</b> -Cromwell Harbor Road, Bond funded

#### **Working Capital/Cash Flow**

A common and simple method for measuring a minimum working capital formula for a utility that bills in advance is to use 3 months or 25% of annual operating expenses. This target calculates to approximately \$549,000 estimated requirement as of June 30, 2025. Since FY2010 the Division has been building up its own cash reserve. The cash balance at the end of this year is anticipated to be higher because of deferred capital spending. However, the proposed budget projections show that there will be a decrease of the cash reserves of \$325,501 in FY2025 due to spending for authorized construction projects that were previously deferred.

#### **Water Master Plan**

The comprehensive Water Master Plan was completed in FY2019/20 to use as a continuing guide to assist in long term planning, avoiding surprises in both capital and operational aspects of maintaining the efficient running of the water facility and to give general direction for budgeting priorities. This includes maintaining the *filtration waiver*, which if not renewed, would be very expensive for the ratepayers. This latest Master Plan was completed by *Olver Associates* and heard by the Town Councilors in December, 2020.

Items reviewed by the Master Plan were subjects focused on identifying bottle necks of constricted flow in the distribution system, water storage needs, documenting weaknesses of the system, help design equipment replacements and upgrades and work with the Town's *Comprehensive Plan* to investigate likely expansion opportunities in designated growth areas to relieve stress on the private well water resources. The Master Plan suggested priorities, such as water storage facilities and specific main improvements projects that will require coordination with other department needs, such as Wastewater and Highway; and an inter-department project prioritization plan developed. This consolidated coordination allows funds from each department to be used wisely.

#### **Town Council Action**

The next step is for the Town Council to pass an order scheduling a public hearing for January 21, 2025 on the ordinance amendment.



*The Bar Harbor Town Council will hold a public hearing January 21, 2025 to hear comments on the following proposed amendment to the Municipal Code.*

## **Water Budget Ordinance Amendment**

Town of Bar Harbor

#2024-11

### **An Ordinance Amendment to Adopt the Fiscal Year 2025 Water Budget**

*The Town of Bar Harbor hereby ordains that Chapter 201, Water, of the Town Code is amended as follows:*

[Please Note: Old language is ~~stricken~~. New language is underlined.]

## **Chapter 201, Water**

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### ARTICLE III

#### **Water Budget, Rates, Fees and Charges**

#### **§ 201-11. Water budget.**

A. Budget adopted. The fiscal year ~~2024~~ 2025 Water Budget, dated ~~October 13, 2023~~ December 17, 2024, is hereby adopted as published and summarized below.

- (1) Cash. Net cash ~~generated~~ drawdown is estimated to be ~~\$228,735~~ \$325,501.
- (2) Revenues.
  - (a) PUC regulated revenues are estimated to be ~~\$2,434,530~~ \$2,714,746.
  - (b) Total water revenues are estimated to be ~~\$2,474,530~~ \$2,950,846.
- (3) Expenses. The following appropriations are hereby approved:
  - (a) Nonoperating expenses: \$10,274.
  - (b) Salaries and wages: ~~\$544,329~~ \$622,825.
  - (c) Payroll benefits: ~~\$228,335~~ \$260,599.
  - (d) Contractual services: ~~\$611,746~~ \$387,673.
  - (e) Materials and supplies: ~~\$226,500~~ \$199,100.
  - (f) Utilities and commodities: ~~\$70,100~~ \$81,500.
  - (g) Repairs and maintenance: ~~\$271,500~~ \$238,000.
  - (h) Equipment purchases: ~~\$14,300~~ \$25,000.
  - (i) Other: insurance, travel, advertising and miscellaneous: ~~\$60,600~~ \$70,250.
  - (j) Interest: ~~\$245,747~~ \$878,161.
  - (k) Depreciation and amortization: ~~\$336,121~~ \$317,223.
  - (l) Capital spending: ~~\$1,133,000~~ \$3,955,061.



Town of Bar Harbor  
Water Fund FY2025

	<i>Actual</i> <i>Actual</i> FY23	<i>Estimated</i> <i>Actual</i> FY24	<i>Requested</i> <i>Next Year</i> FY25
<b>FUND BALANCE - Water Fund</b>			
Starting Fund Balance	\$2,221,115	\$2,392,516	\$1,732,127
Revenues & Other Sources	\$2,276,693	\$2,265,550	\$2,950,846
Expenditures & Other Uses	\$2,105,292	\$2,925,939	\$3,276,347
Ending Fund Balance	\$2,392,516	\$1,732,127	\$1,406,626
Reserve/Fund Balance Use			<u>\$325,501</u>

**A.**

**Designation for Working Capital**

As with other Town funds, the method for measuring minimum working capital formula is to calculate 3 months or 25% of annual operating expenses

Annual Operating Expenses	2,195,407
	25%
Recommended Designation	<b>\$548,852</b>



**TOWN OF BAR HARBOR**  
**NEXT YEAR / CURRENT YEAR BUDGET ANALYSIS REVENUE**  
**FISCAL YEAR 2025 WATER BUDGET**

			<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>% Change</b>
			<b>ACTUAL</b>	<b>ACTUAL</b>	<b>ADOPTED</b>	<b>'24 vs. '25</b>
		<b>Volume ('000's cubic feet)</b>	34,368	35,921	36,400	1.3%
4098	4700	INVESTMENT INTEREST	\$18,657	\$15,530	\$220,000	1317%
4098	4704	LATE PENALTIES INTEREST	\$648	\$937	\$900	-4%
4098	4900	METERED RESIDENTIAL SALES	\$476,610	\$483,709	\$537,600	11%
4098	4901	METER RESIDENTIAL SEAS'L	\$136,633	\$160,000	\$207,200	30%
4098	4902	METERED COMMERCIAL SALES	\$394,706	\$396,643	\$456,960	15%
4098	4903	METER COMMERCIAL SEAS'L	\$251,321	\$177,547	\$285,600	61%
4098	4904	METERED JAX LAB SALES	\$190,368	\$185,288	\$218,400	18%
4098	4905	METER JAX LAB SEASONAL	\$3,489	\$3,500	\$5,600	60%
4098	4906	METERED GOVERNMENT SALES	\$40,807	\$41,427	\$53,200	28%
4098	4907	METER GOVERNMENT SEAS'L	\$32,594	\$33,000	\$44,800	36%
4098	4920	PUBLIC FIRE PROTECT-HYDRNT	\$585,604	\$585,604	\$711,626	22%
4098	4922	PRIVATE FIRE PROTECTION	\$157,251	\$170,500	\$193,760	14%
4098	4924	JOBGING INCOME	\$2,949	\$4,365	\$4,000	-8%
4098	4938	TURN ON & MISC FEES	\$6,661	\$7,500	\$11,200	49%
		<b>TOTAL REVENUE</b>	<b>\$2,298,298</b>	<b>\$2,265,550</b>	<b>\$2,950,846</b>	<b>30%</b>



**TOWN OF BAR HARBOR**

**NEXT YEAR / CURRENT YEAR BUDGET ANALYSIS**

**FISCAL YEAR 2025 WATER BUDGET EXPENDITURES**

			2023	2024	2025	% Change
			ACTUAL	ACTUAL	ADOPTED	'24 vs '25
<b>51 WAGES</b>						
4098	5100	WAGES-SALARIES			\$91,219	
4098	5105	WAGES-HOURLY	\$359,492	\$389,475	\$416,058	7%
4098	5110	WAGES-OVERTIME	\$83,799	\$71,199	\$77,048	8%
4098	5160	WAGES-OVERTIME EMERGENCIES			\$35,000	
4098	5170	WAGES-ACCRUALS-27TH PP	\$4,201	\$1,218	\$2,500	105%
4098	5175	WAGES-VACATION ACCRLS	\$8,716	\$150	\$1,000	567%
<b>TOTAL WAGES</b>			<b>\$456,208</b>	<b>\$462,042</b>	<b>\$622,825</b>	<b>35%</b>
<b>52 EMPLOYEE BENEFITS</b>						
4098	5162	WAGES-HEALTH INS STIPEND			\$8,500	
4098	5200	BEN-FICA/MEDICARE	\$33,296	\$33,396	\$44,969	35%
4098	5210	BEN-ME ST RET SYST PENSION	\$55,525	\$47,666	\$57,848	21%
4098	5215	BEN-WORKERS COMPENSATION	\$4,780	\$6,928	\$12,985	87%
4098	5220	BEN-UEMPLOYMENT COMPNSTN	\$1,272	\$1,272	\$1,275	0%
4098	5225	BEN-HEALTH INSURANCE PREM	\$80,548	\$92,388	\$98,500	7%
4098	5230	BEN-HEALTH INS.-OPT OUT PROG	\$18,609	\$19,368	\$20,200	4%
4098	5245	BEN-RET. HEALTH SAVINGS ACCT	\$ -	\$ -	\$900	
4098	5290	BEN-HRA ACCOUNT	\$4,060	\$10,606	\$12,500	18%
4098	5298	BEN - ME PAID FAMILY MED LEAVE	\$ -	\$ -	\$2,922	
<b>TOTAL EMPLOYEE BENEFITS</b>			<b>\$198,090</b>	<b>\$211,624</b>	<b>\$260,599</b>	<b>23%</b>
<b>53 CONTRACTUAL SERVICES</b>						
4098	5304	CONT SRV-AUDIT & ACCOUNTING	\$2,700	\$3,000	\$5,000	67%
4098	5306	CONT SRV-BH TOWN MGT. SERV	\$170,133	\$111,321	\$111,321	0%
4098	5312	CONT SRV-SEPTIC PUMPING	\$3,484	\$2,160	\$3,000	39%
4098	5314	CONT SRV-COPY/POSTG EQPMNT	\$3,115	\$2,821	\$4,000	42%
4098	5315	CONT SRV-COURIER SERVICES-LAB	\$7,245	\$7,740	\$8,000	3%
4098	5320	CONT SRV-DISPOSAL-OTHER	\$718	\$958	\$1,000	4%
4098	5326	CONT SRV-ENG & SURVEYING	\$13,453	\$5,913	\$50,000	746%
4098	5332	CONT SRV-GENERATORS	\$725	\$397	\$1,200	202%
4098	5334	CONT SRV-GEN'L PROF FEES	\$470	\$353	\$ -	
4098	5336	CONT SRV-W TREATMNT EQPMNT	\$38,082	\$29,020	\$12,000	-59%
4098	5340	CONT SRV-LEGAL-GENERAL	\$712	\$ -	\$1,000	
4098	5348	CONT SRV-MOWING	\$795	\$850	\$1,000	18%
4098	5360	CONT SRV-PRNTING OF REPORTS	\$ -	\$ -	\$700	
4098	5362	CONT SRV-HYDRANT FLW TESTS	\$14,999	\$ -	\$4,000	
4098	5364	CONT SRV-PW BLDG LEASE	\$79,220	\$79,273	\$79,220	0%
4098	5368	CONT SRV-COMPUTER LIC & SPPT	\$14,761	\$10,256	\$20,000	95%
4098	5372	CONT SRV-LAB TNK-INT CLEN/INSP	\$25,397	\$21,673	\$22,000	2%

			2023	2024	2025	% Change
			ACTUAL	ACTUAL	ADOPTED	'24 vs '25
4098	5374	CONT SRV-LAB TANK PNTG AMRT	\$ -	\$ -	\$4,532	
4098	5376	CONT SRV-TEMP CONTRACT HELP	\$8,647	\$ -	\$ -	
4098	5378	CONT SRV-TESTNG-EQUIPMENT	\$1,095	\$ -	\$2,700	
4098	5384	CONT SRV-LABORATORY TESTING	\$10,743	\$10,015	\$12,000	20%
4098	5390	CONT SRV-ASSET MANAGEMENT	\$ -	\$3,990	\$20,000	401%
4098	5395	CONT SRV-REGULATORY COMPLNCE	\$ -	\$ -	\$25,000	
<b>TOTAL CONTRACTUAL SERVICES</b>			<b>\$396,494</b>	<b>\$289,740</b>	<b>\$387,673</b>	<b>34%</b>
54 MATERIALS & SUPPLIES						
4098	5410	SUPPLIES-CLOTHING UNIFORMS	\$7,715	\$7,206	\$10,000	39%
4098	5412	SUPPLIES-COPIER & CMPTR SUP	\$1,212	\$2,201	\$2,500	14%
4098	5418	SUPPLIES-FORMS/CHECKS & ETC	\$ -	\$284	\$600	111%
4098	5423	SUPPLIES-AMMONIA	\$3,260	\$4,890	\$5,000	2%
4098	5424	SUPPLIES-SOD HYPOCHLORITE	\$25,289	\$31,298	\$31,000	-1%
4098	5425	SUPPLIES-FLUORIDE	\$7,050	\$9,498	\$15,000	58%
4098	5426	SUPPLIES-CO2	\$67,754	\$47,264	\$60,000	27%
4098	5427	SUPPLIES-LIME	\$9,731	\$10,275	\$11,000	7%
4098	5428	SUPPLIES-WATER TREATMN SUPPL	\$16,421	\$19,982	\$25,000	25%
4098	5436	SUPPLIES-OFFICE SUPPLIES	\$3,338	\$3,779	\$5,000	32%
4098	5438	SUPPLIES-OPERATING	\$24,354	\$17,327	\$25,000	44%
4098	5444	SUPPLIES-SAFETY SUPPLIES	\$7,375	\$1,269	\$6,000	373%
4098	5458	SUPPLIES-VEHICLE SUPPLIES	\$1,474	\$249	\$3,000	1105%
<b>TOTAL MATERIALS &amp; SUPPLIES</b>			<b>\$174,973</b>	<b>\$155,522</b>	<b>\$199,100</b>	<b>28%</b>
55 UTILITIES & COMMODITIES						
4098	5504	UTIL-ELECTRICITY	\$27,516	\$42,032	\$40,000	-5%
4098	5506	UTIL-ELECTRICITY-PUMPING	\$3,877	\$5,079	\$4,500	-11%
4098	5514	UTIL-MOTOR FUEL-DIESEL	\$316	\$1,032	\$1,000	-3%
4098	5516	UTIL-MOTOR FUEL-UNLEAD GAS	\$14,179	\$11,483	\$16,000	39%
4098	5520	UTIL-PROPANE	\$4,280	\$5,307	\$5,000	-6%
4098	5528	UTIL-TELEPHONE & CELLULAR	\$8,051	\$10,864	\$15,000	38%
<b>TOTAL UTILITIES &amp; COMMODITIES</b>			<b>\$58,219</b>	<b>\$75,797</b>	<b>\$81,500</b>	<b>8%</b>
56 REPAIRS & MAINTENANCE						
4098	5602	REP & MT-BUILDINGS	\$6,075	\$1,099	\$25,000	2175%
4098	5608	REP & MT-WATER TREATMNT EQ	\$4,216	\$ -	\$ -	
4098	5618	REP & MT-EQUIPMENT & GEN'L	\$907	\$231	\$6,500	2714%
4098	5626	REP & MT-HYDRANTS	\$22,456	\$4,754	\$5,000	5%
4098	5628	REP & MT-MAINS	\$139,191	\$51,948	\$80,000	54%
4098	5630	REP & MT-METERS	\$23,876	\$ -	\$60,000	
4098	5634	REP & MT-PLNT & W TREATMT EQ	\$10,520	\$11,068	\$15,000	36%
4098	5642	REP & MT-PUMPNG EQPMNT	\$ -	\$ -	\$10,000	

			2023	2024	2025	% Change
			ACTUAL	ACTUAL	ADOPTED	'24 vs '25
4098	5650	REP & MT-SERVICES	\$76,383	\$11,425	\$25,000	119%
4098	5652	REP & MT-STANDPIPES/INTAKES	\$3,887	\$ -	\$4,000	
4098	5658	REP & MT-VEHICLE REPAIRS	\$762	\$6,054	\$7,500	24%
<b>TOTAL REPAIRS &amp; MAINTENANCE</b>			<b>\$288,273</b>	<b>\$86,579</b>	<b>\$238,000</b>	175%
57 EQUIPMENT						
4098	5700	EQP PURCH-COMPUTER/PRNTRS	\$3,957	\$3,476	\$14,000	303%
4098	5702	EQP PURCH-OFFICE	\$ -	\$102	\$1,000	880%
4098	5704	EQP PURCH-OPERATING	\$800	\$106	\$10,000	9334%
<b>TOTAL EQUIPMENT</b>			<b>\$4,757</b>	<b>\$3,684</b>	<b>\$25,000</b>	579%
58 OTHER EXP, TRAVEL						
4098	5800	ADVERTISING	\$1,014	\$688	\$1,200	74%
4098	5808	DUES/LICENSES & OTHER	\$4,367	\$5,258	\$4,200	-20%
4098	5822	INSURANCES-GEN LIAB & PRP	\$2,613	\$5,316	\$11,000	107%
4098	5824	INSURANCES-PROP & CASLTY	(\$251)	\$4,082	\$9,250	127%
4098	5826	INSURANCES-VEH & LIAB	\$5,892	\$7,008	\$13,000	86%
4098	5832	PERMITS & FEES	\$ -	\$267	\$600	125%
4098	5836	POSTAGE & SHIP COSTS	\$4,199	\$4,683	\$5,000	7%
4098	5840	REGULATORY ASSESSMENTS	\$10,819	\$12,637	\$12,000	-5%
4098	5844	TRAINING/WORKSHOPS/ETC	\$2,356	\$5,451	\$5,000	-8%
4098	5846	TRAVEL RMS MILES & MEALS	\$ -	\$299	\$5,000	1572%
4098	6008	RATE CASE EXP AMORT	\$ -	\$ -	\$4,000	
<b>TOTAL OTHER EXP, TRAVEL</b>			<b>\$31,009</b>	<b>\$45,689</b>	<b>\$70,250</b>	54%
60 DEPRECIATON & AMORTIZAION						
4098	6000	AMORTIZATION-ACQ ADJST	\$70,124	\$70,124	\$0	-100%
4098	6006	AMORTIZATION-DEBT EXP	\$ -	\$486	\$723	49%
4098	6012	DEPRECIATION	\$257,816	\$285,600	\$302,000	6%
4098	6014	DEPRECIATION-CIAC	\$10,274	\$13,975	\$14,500	4%
<b>TOTAL DEPRECIATON &amp; AMORTIZATION</b>			<b>\$338,214</b>	<b>\$370,185</b>	<b>\$317,223</b>	-14%
49 WATER UTILITY						
4098	6002	AMORTIZATION-CIAC	-10,274	-10,274	-10,274	
4098	6016	LOSS ON DISPSL OF ASSETS	656	488	0	
4098	6018	L T PENSION LIAB EXP-GASB 68	3,321	3,477	3,511	
<b>TOTAL WATER UTILITY</b>			<b>-6,297</b>	<b>-6,309</b>	<b>-6,763</b>	
<b>TOTAL OPERATING EXPENSES</b>			<b>\$1,939,940</b>	<b>\$1,694,553</b>	<b>\$2,195,407</b>	30%







**List of Positions - Authorized Wages**

A/c #	-base pay-	Present Rate @ 6-30-24	June '24 Base Wage	7/1/24 Union Rate or Hours 2080	FY25 Proposed Base Wages	Proposed FY25 Budget
5100	Superintendent -Salary-	\$ 87,291	\$ 87,291	\$ 91,219	\$ 91,219	\$ 91,219
	Distribution System Manager - JA	\$ 32.99	\$ 68,619	\$ 34.04	\$ 70,803	\$ 70,803
	Office Manager - CG	\$ 31.00	\$ 64,480	\$ 33.40	\$ 69,472	\$ 69,472
	Treatment System Manager-BL	\$ 32.99	\$ 68,619	\$ 34.04	\$ 70,803	\$ 70,803
	Water Maint. Tech I - JL	\$ -	\$ -	\$ 30.35	\$ 63,128	\$ 63,128
	Water Maint. Tech II - open	\$ 26.70	\$ 55,536	\$ 30.97	\$ 64,418	\$ 64,418
	Water Maint. Tech I - MF	\$ 29.12	\$ 60,570	\$ 30.05	\$ 62,504	\$ 62,504
	Asst Safety Coordinator	\$ 0.25		\$ 0.25	\$ 520	\$ 520
	Safety Coordinator	\$ 0.50		\$ 0.50	\$ 1,040	\$ 1,040
	Wage Adjustments (for licenses)			\$ 3.50	\$ 7,280	\$ 7,280
	Part Time Help			\$ 30.60	\$ 6,090	\$ 6,090
					\$ -	
5105	<b>Total wages-hourly</b>		<b>\$ 317,824</b>		<b>\$ 416,058</b>	<b>\$ 416,058</b>
	Scheduled Overtime-Avg. OT rate (6)	\$ 48.21	\$ 36,435	832	\$ 40,915	\$ 40,915 (16 hrs/wk)
	Unscheduled Overtime-Avg. OT rate (6)	\$ 48.21	\$ 32,428	735	\$ 36,133	\$ 36,133
5110	<b>Total wages-overtime</b>		<b>\$ 68,863</b>		<b>\$ 77,048</b>	<b>\$ 77,048</b>
	<b>Totals - Salaries &amp; Wages</b>		<b>\$ 473,978</b>		<b>\$ 584,325</b>	<b>\$ 584,325</b>
	<b>Actual Unscheduled Overtime Hours - CY 2023</b>			448		
	<b>Actual Unscheduled Overtime Hours - CY 2022</b>			1,210		
	<b>Actual Unscheduled Overtime Hours - CY 2021</b>			820		
	<b>Actual Unscheduled Overtime Hours - CY 2020</b>			461	735	



# *Water Rate Comparisons*

(USDA std)

<i>Utility Name</i>	<i>Qtr - Family 2000 CuFt</i>	<i>Rates Effective</i>	
<b>Unfiltered Systems:</b>			
Brewer Water Dept.	\$ 146.44	2024	
Mt. Desert Water District	\$ 64.50	2021	(by fixtures/ann'l)
ME Water Co,-Camden	\$ 128.64	2024	
<b><i>Bar Harbor Water Div.</i></b>			
Bangor Water District	\$ 111.45	2024	
Average Billing	\$ 112.76		
<b>BH Rate as a % of Avg. Rate</b>	<b>0%</b>		
<b>Filtered Systems:</b>			
Castine Water District	\$ 280.85	2024	
Boothbay Region Wtr Dist.	\$ 239.00	2024	
WinterHarbor Water Dist.	\$ 149.00	2019	
ME Water Co-Bucksport	\$ 107.08	2021	
Ellsworth Water Dept.	\$ 133.17	2024	Supported partially by taxes
Bath Water District	\$ 149.59	2023	
Southwest Harbor Water Dept	\$ 139.09	2020	
Wiscasset Water Dist.	\$ 211.88	2024	
Belfast Water District	\$ 109.86	2024	
KennBk,Port & Wells W Dist.	\$ 112.46	2024	
Average Billing	\$ 163.20		
<b>BH Rate as a % of Avg. Rate</b>	<b>0%</b>		
All Systems-Average	\$ 148.79		
<b>BH Rate as a % of Avg. Rate</b>	<b>0%</b>		

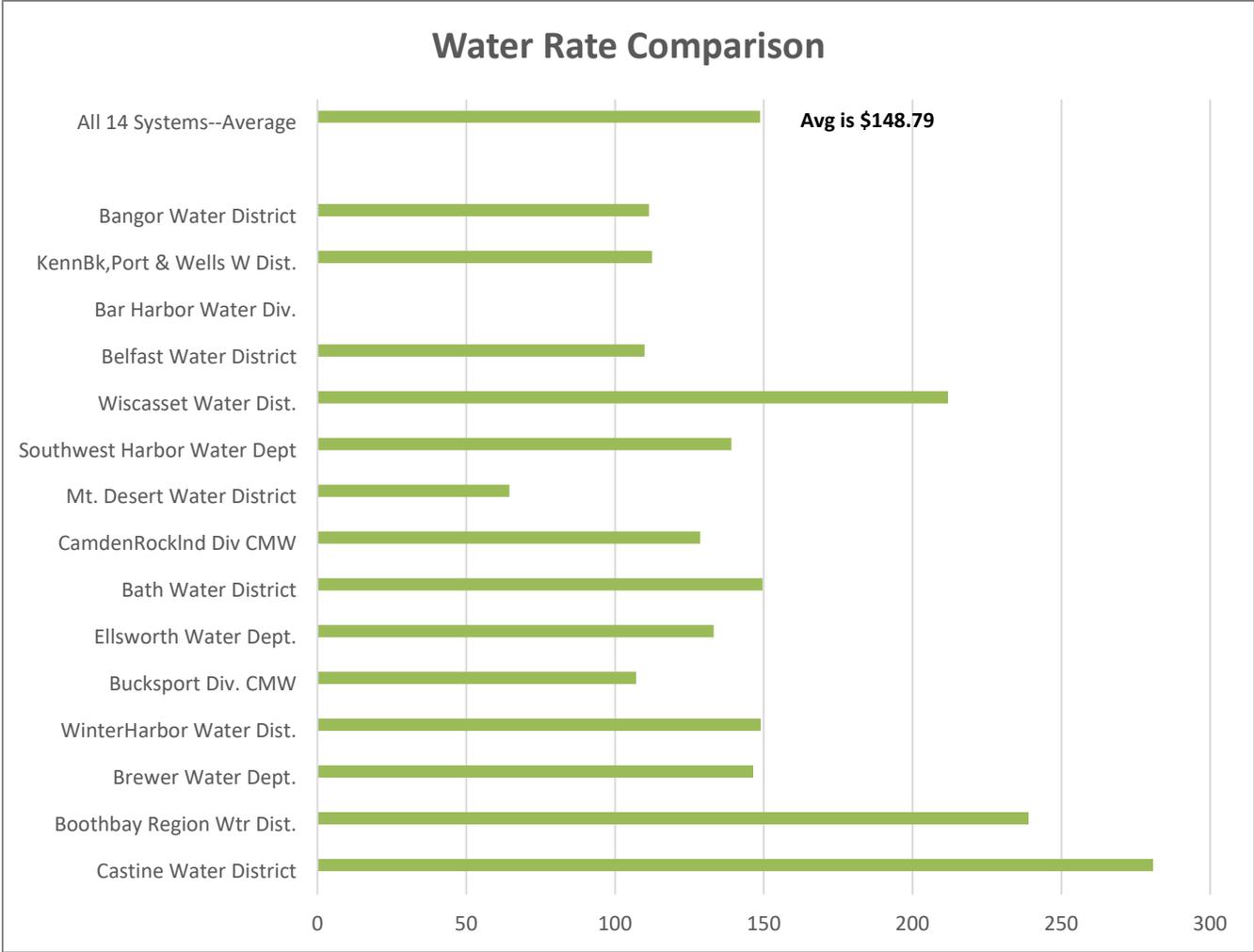


Town of Bar Harbor  
2025 Water Budget

<u>Castine Water District</u>	\$ 280.85
Boothbay Region Wtr Dist.	\$ 239.00
Brewer Water Dept.	\$ 146.44
WinterHarbor Water Dist.	\$ 149.00
Bucksport Div. CMW	\$ 107.08
Ellsworth Water Dept.	\$ 133.17
Bath Water District	\$ 149.59
CamdenRockInd Div CMW	\$ 128.64
Mt. Desert Water District	\$ 64.50
Southwest Harbor Water Dept	\$ 139.09
Wiscasset Water Dist.	\$ 211.88
Belfast Water District	\$ 109.86
<b>Bar Harbor Water Div.</b>	
KennBk,Port & Wells W Dist.	\$ 112.46
Bangor Water District	\$ 111.45
All 14 Systems--Average	\$ 148.79



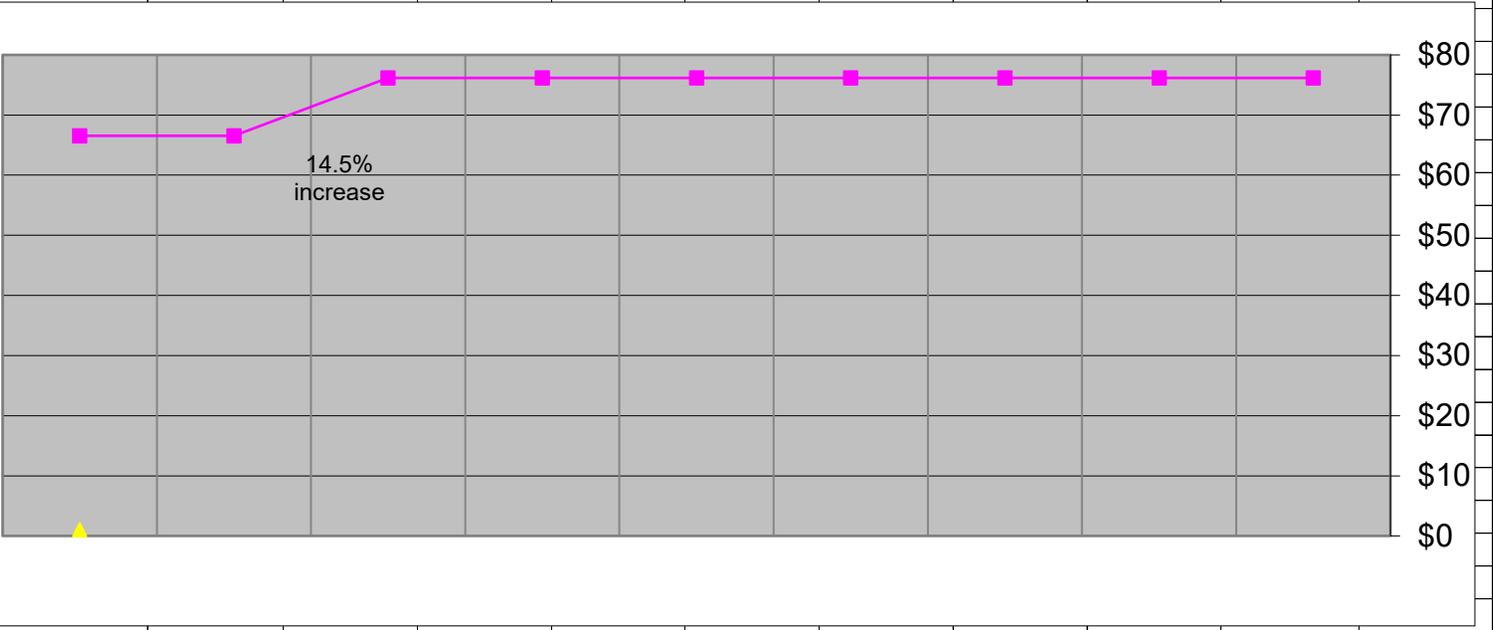
Town of Bar Harbor  
2025 Water Budget





Town Of Bar Harbor  
2025 Water Budget

History of Quarterly Minimum Water Charges										
Rate Increases by Town (on residential users)										
Effective Dates	1/1/15	1/1/16	1/1/17	1/1/18	1/1/19	1/1/20	1/1/21	1/1/2022	1/1/2023	4/1/2025
Water Minimum Charge	\$ 66.55	\$ 66.55	\$ 76.17	\$ 76.17	\$ 76.17	\$ 76.17	\$ 76.17	\$ 76.17	\$ 76.17	
Minimum Allowance	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
<i>an average of 3.5% increase per year over the last ten years</i>										





TOWN OF BAR HARBOR WATER DIVISION  
 BAR HARBOR, MAINE 04609

Sheet #1  
 SIXTH Revision

SCHEDULE OF METERED RATES FOR ANNUAL CUSTOMERS

Quarterly Billing

First 1,200 Cubic Feet or less per Quarter	76.17
For the next 10,800 Cubic Feet per Quarter	4.42 per 100 cu. ft.
For the next 78,000 Cubic Feet per Quarter	2.07 per 100 cu. ft.
Over 90,000 Cubic Feet per Quarter	1.35 per 100 cu. ft.

Monthly Billing

First 400 Cubic Feet or less per Month	25.39
For the next 3,600 Cubic Feet per Month	4.42 per 100 cu. ft.
For the next 26,000 Cubic Feet per Month	2.07 per 100 cu. ft.
Over 30,000 Cubic Feet per Month	1.35 per 100 cu. ft.

Minimum Charge

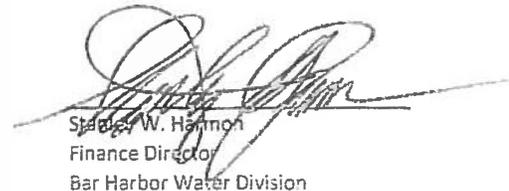
SIZE OF METER	Quarterly		Monthly	
	Allowance	Charge	Allowance	Charge
5/8"	1,200	76.17	400	25.39
3/4"	1,800	102.69	600	34.23
1"	3,000	155.73	1,000	51.91
1-1/2"	6,000	288.33	2,000	96.11
2"	9,600	447.45	3,200	149.15
3"	18,000	677.72	6,000	225.91
4"	30,000	926.13	10,000	308.71
6"	60,000	1,547.13	20,000	515.71

Terms of Payment

The minimum charge for different sizes of meters will be billed monthly or quarterly in accordance with the water division's billing procedure.

Charges under these rates will be subject to the Maine Sales Tax where applicable and are due and payable when issued. Unpaid balances of accounts thirty (30) days or more past due will be charged interest at the rate set annually by the Public Utilities Commission of the State of Maine.

Issued: October 15, 2015  
 Proposed Effective: January 1, 2016  
 Effective:  
 Docket No. 2015-00317

  
 Stephen W. Harmon  
 Finance Director  
 Bar Harbor Water Division

TOWN OF BAR HARBOR WATER DIVISION  
 BAR HARBOR, MAINE 04609

Sheet #2  
 SIXTH Revision

SCHEDULE OF METERED RATES FOR SEASONAL CUSTOMERS

Quarterly Billing

First 1,600 Cubic Feet or less per Quarter	201.63
For the next 10,400 Cubic Feet per Quarter	8.87 per 100 cu. ft.
For the next 78,000 Cubic Feet per Quarter	4.13 per 100 cu. ft.
For the next 300,000 Cubic Feet per Quarter	2.07 per 100 cu. ft.
Over 390,000 Cubic Feet per Quarter	1.58 per 100 cu. ft.

Minimum Charge

SIZE OF METER	Seasonal	
	Allowance	Charge
5/8"	1,600	201.63
3/4"	2,400	272.66
1"	4,000	414.73
1-1/2"	8,000	769.92
2"	12,800	1,158.19
3"	24,000	1,621.47
4"	40,000	2,283.28
6"	80,000	3,937.81

Terms of Payment

The minimum charge for different sizes of meters will be billed monthly or quarterly in accordance with the water division's billing procedure.

Charges under these rates will be subject to the Maine Sales Tax where applicable and are due and payable when issued. Unpaid balances of accounts thirty (30) days or more past due will be charged interest at the rate set annually by the Public Utilities Commission of the State of Maine.

Issued: October 15, 2015  
 Proposed Effective: January 1, 2016  
 Effective:  
 Docket No. 2015-00317

  
 Stanley W. Harmon  
 Finance Director  
 Town of Bar Harbor Water Division

TOWN OF BAR HARBOR WATER DIVISION  
BAR HARBOR, MAINE 04609

SHEET #3  
SIXTH Revision

PUBLIC FIRE PROTECTION

AVAILABLE:

To the Town of Bar Harbor for Municipal Fire Protection

RATE:

The rate for existing hydrants as installed on the system at January 1, 2016,  
shall have an annual charge of

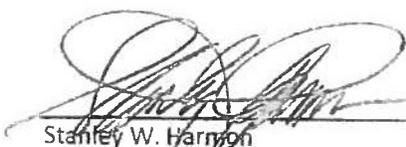
\$585,602 Annually  
\$146,401 Quarterly

Rate for hydrants installed after January 1, 2016, shall be determined  
in accordance with the Public Utilities Commission Rules and Regulations  
Chapter 69.

The hydrant rental charge shall not be reduced, should a Town order  
one or more hydrants discontinued.

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Issued: October 15, 2015  
Proposed Effective: January 1, 2016  
Effective:  
Docket No. 2015 - 00317

  
Stanley W. Harmon  
Finance Director  
Town of Bar Harbor Water Division

TOWN OF BAR HARBOR WATER DIVISION  
BAR HARBOR, MAINE 04609

SHEET # 4  
SIXTH Revision

PRIVATE FIRE PROTECTION

AVAILABLE:

To customers using the Division's service for private fire protection the following rates apply to fire protection only and include no allowance of water for other than fire fighting purposes.

RATES:

Private fire service rates for automatic sprinklers, standpipes or hose connections to be used only for fire protection inside of buildings.

Annual service charge per inch of service pipe diameter.

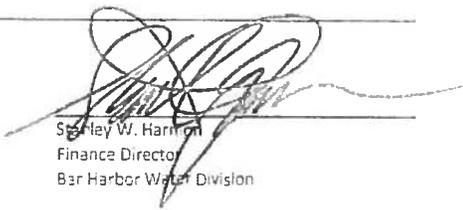
\$ 170

Annual service charge for each private hydrant with service connection furnished, installed and maintained by user for private fire protection.

\$ 1,362

Private protection is billable on April 1st

Issued: October 15, 2015  
Proposed Effective: January 1, 2016  
Effective:  
Docket No. 2015 - 00317



Stanley W. Harrison  
Finance Director  
Bar Harbor Water Division

## Debt Service

### A Responsibility of the Finance Department

							4098-4700
							#40-2765
<b>Bond Issue F - Public Works Projects: FY10</b>							
<b>**** WATER FUND SHARE ****</b>							
FY	Date	Interest Rate	Principal Payment	Interest Payment	Payment Total	Water Fund FY Total	FY
25	11/1/24	5.00%	0.00	3,924.43	3,924.43		
	5/1/25	5.00%	25,813.95	3,924.43	29,738.38	33,662.81	25
26	11/1/25	5.00%	0.00	3,279.08	3,279.08		
	5/1/26	5.00%	27,906.98	3,279.08	31,186.06	34,465.14	26
27	11/1/26	5.00%	0.00	2,581.40	2,581.40		
	5/1/27	5.00%	25,813.95	2,581.40	28,395.35	30,976.75	27
28	11/1/27	5.00%		1,936.05	1,936.05		
	5/1/28	5.00%	25,813.95	1,936.05	27,750.00	29,686.05	28
29	11/1/28	5.00%	0.00	1,290.70	1,290.70		
	5/1/29	5.00%	25,813.95	1,290.70	27,104.65	28,395.35	29
30	11/1/29	5.00%	0.00	645.35	645.35		
	5/1/30	5.00%	25,813.95	645.35	26,459.30	27,104.65	30
Total Water Fund Share			156,976.73	27,314.02	184,290.75	184,290.75	6
<b>Summary of Bond Issue F:</b>							
CIP Fund Share			968,023	86.0%			
Water Fund Share			156,977	14.0%			
Grand Total			\$1,125,000	100.0%			

~~ Debt Service Continued on Next Page ~~



## Debt Service

A Responsibility of the Finance Department

4098-5910

Bond Issue H - Refunding 2011 Duck Brook Pump Station

40-2768

Authorized by Town Meeting Vote 6/2011

Lender: US Bank

<u>Date</u>	<u>Principal</u>	<u>Water</u>	<u>Coupon</u>	<u>Water Interest</u>	<u>Debt Service</u>	<u>FY Total</u>
10/15/2024	125,000	67,150	5.000%	\$ 14,168.65	81,318.65	
4/15/2025				\$ 12,489.90	12,489.90	93,808.55
10/15/2025	130,000	69,836	5.000%	\$ 12,489.90	82,325.90	
4/15/2026				\$ 10,744.00	10,744.00	93,069.90
10/15/2026	140,000	75,208	5.000%	\$ 10,744.00	85,952.00	
4/15/2027				\$ 8,863.80	8,863.80	94,815.80
10/15/2027	125,000	67,150	5.000%	\$ 8,863.80	76,013.80	
4/15/2028				\$ 7,185.05	7,185.05	83,198.85
10/15/2028	130,000	69,836	5.000%	\$ 7,185.05	77,021.05	
4/15/2029				\$ 5,439.15	5,439.15	82,460.20
10/15/2029	140,000	75,208	5.000%	\$ 5,439.15	80,647.15	
4/15/2030				\$ 3,558.95	3,558.95	84,206.10
10/15/2030	145,000	77,894	5.000%	\$ 3,558.95	81,452.95	
4/15/2031				\$ 1,611.60	1,611.60	83,064.55
10/15/2031	150,000	80,580	4.000%	\$ 1,611.60	82,191.60	82,191.60
Total		\$ 582,862		\$ 113,953.55		696,815.55



## Debt Service

**A Responsibility of the Finance Department**

**Bond Issue I**

4098-4700

**WATER SYSTEM IMPROVEMENTS: 2012 - SRF**

#40-2755

Duck Brook Water Pumping Station renovations, water treatment system improvements and main replacements. Financed by the Maine Drinking Water Program's State Revolving Loan Fund (SRF), using General Obligation (GO) notes, but is being repaid by the Water Fund from user fees.

Original Principal = \$2,662,957

Lender: Maine Municipal Bond Bank

Date of Issue: 10/1/2012

Cannont Refinance

Average Interest Rate = 1.5%

Payment Dates: October 1 (principal and interest) & April 1 (interest only)

<i>Fiscal Year</i>	<i>Date</i>	<i>Principal Payment</i>	<i>Interest Payment</i>	<i>Payment Total</i>	<i>Fiscal Year Total</i>
25	10/01/24	134,928.00	13,382.81	148,310.81	
	04/01/25	0.00	5,928.04	5,928.04	154,238.85
26	10/01/25	136,277.00	12,741.89	149,018.89	
	04/01/26	0.00	5,212.58	5,212.58	154,231.47
27	10/01/26	137,640.00	12,094.58	149,734.58	
	04/01/27	0.00	4,489.97	4,489.97	154,224.55
28	10/01/27	139,016.00	11,440.77	150,456.77	
	04/01/28	0.00	3,760.13	3,760.13	154,216.90
29	10/01/28	140,406.00	10,780.43	151,186.43	
	04/01/29	0.00	3,023.00	3,023.00	154,209.43
30	10/01/29	141,811.00	10,113.55	151,924.55	
	04/01/30	0.00	2,278.49	2,278.49	154,203.04
31	10/01/30	143,229.00	9,439.94	152,668.94	
	04/01/31	0.00	1,526.53	1,526.53	154,195.47
32	10/01/31	144,660.00	8,759.53	153,419.53	
	04/01/32	0.00	767.07	767.07	154,186.60
33	10/01/32	146,108.00	8,072.47	154,180.47	
Totals		1,264,075.00	123,811.78	1,387,886.78	1,387,886.78

~~ Debt Service Continued on Next Page ~~



## Debt Service

### A Responsibility of the Finance Department

**Bond Issue L** 4098-5910  
**ROUTE #3 WATER MAINS: FY16** #40-2740

Authorized by Town Meeting Vote @ 6/2/2015 , dated 9/10/2015  
 Repaid by Water Rates

Principal =	\$	1,700,000					Lender: Roosevelt & Cross, Inc. & Assoc.
Interest Rate =		3.30% Avg.					TIC: 2.49% after bond premium
Term in Years =		20					Refinance only after October 2025
							Paying Agent: US Bank St. Paul

<i>Fiscal Year</i>	<i>Due Date</i>	<i>Principal Payment</i>	<i>Interest Payment</i>	<i>Payment Total</i>	<i>Fiscal Year Total</i>	
25	10/15/24	85,000.00	17,212.50	102,212.50		4.00%
	04/15/25		15,512.50	15,512.50	117,725.00	
26	10/15/25	85,000.00	15,512.50	100,512.50		5.00%
	04/15/26		13,387.50	13,387.50	113,900.00	
27	10/15/26	85,000.00	13,387.50	98,387.50		5.00%
	04/15/27		11,262.50	11,262.50	109,650.00	
28	10/15/27	85,000.00	11,262.50	96,262.50		2.50%
	04/15/28		10,200.00	10,200.00	106,462.50	
29	10/15/28	85,000.00	10,200.00	95,200.00		3.00%
	04/15/29		8,925.00	8,925.00	104,125.00	
30	10/15/29	85,000.00	8,925.00	93,925.00		3.00%
	04/15/30		7,650.00	7,650.00	101,575.00	
31	10/15/30	85,000.00	7,650.00	92,650.00		3.00%
	04/15/31		6,375.00	6,375.00	99,025.00	
32	10/15/31	85,000.00	6,375.00	91,375.00		3.00%
	04/15/32		5,100.00	5,100.00	96,475.00	
33	10/15/32	85,000.00	5,100.00	90,100.00		3.00%
	04/15/33		3,825.00	3,825.00	93,925.00	
34	10/15/33	85,000.00	3,825.00	88,825.00		3.00%
	04/15/34		2,550.00	2,550.00	91,375.00	
35	10/15/34	85,000.00	2,550.00	87,550.00		3.00%
	04/15/35		1,275.00	1,275.00	88,825.00	
36	10/15/35	85,000.00	1,275.00	86,275.00		3.00%
					86,275.00	
		<b>1,020,000.00</b>	<b>189,337.50</b>	<b>1,209,337.50</b>	<b>1,209,337.50</b>	

**Summary of Bond Issue L:**

CIP Fund Share 240,000  
 Water Fund Share 1,020,000

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Grand Total 1,260,000



## Town of Bar Harbor, Maine

4098-6505, 4098-5910

## Bond Issue P (Downtown Infrastructure - Water)

Lender: US Bank

Dated Date 8/15/2023

Delivery Date 8/15/2023

<u>Date</u>	<u>Principal</u>	<u>Coupon</u>	<u>Interest</u>	<u>Debt Service</u>	<u>FY Total</u>
10/15/2024	245,000	5.000%	119,925	364,925	
4/15/2025			113,800	113,800	478,725
10/15/2025	245,000	5.000%	113,800	358,800	
4/15/2026			107,675	107,675	466,475
10/15/2026	245,000	5.000%	107,675	352,675	
4/15/2027			101,550	101,550	454,225
10/15/2027	245,000	5.000%	101,550	346,550	
4/15/2028			95,425	95,425	441,975
10/15/2028	245,000	5.000%	95,425	340,425	
4/15/2029			89,300	89,300	429,725
10/15/2029	245,000	5.000%	89,300	334,300	
4/15/2030			83,175	83,175	417,475
10/15/2030	245,000	5.000%	83,175	328,175	
4/15/2031			77,050	77,050	405,225
10/15/2031	245,000	4.000%	77,050	322,050	
4/15/2032			72,150	72,150	394,200
10/15/2032	245,000	4.000%	72,150	317,150	
4/15/2033			67,250	67,250	384,400
10/15/2033	245,000	5.000%	67,250	312,250	
4/15/2034			61,125	61,125	373,375
10/15/2034	245,000	5.000%	61,125	306,125	
4/15/2035			55,000	55,000	361,125
10/15/2035	245,000	5.000%	55,000	300,000	
4/15/2036			48,875	48,875	348,875
10/15/2036	245,000	5.000%	48,875	293,875	
4/15/2037			42,750	42,750	336,625
10/15/2037	245,000	5.000%	42,750	287,750	
4/15/2038			36,625	36,625	324,375
10/15/2038	245,000	5.000%	36,625	281,625	
4/15/2039			30,500	30,500	312,125
10/15/2039	245,000	5.000%	30,500	275,500	
4/15/2040			24,375	24,375	299,875
10/15/2040	245,000	5.000%	24,375	269,375	
4/15/2041			18,250	18,250	287,625
10/15/2041	245,000	5.000%	18,250	263,250	
4/15/2042			12,125	12,125	275,375
10/15/2042	245,000	5.000%	12,125	257,125	
4/15/2043			6,000	6,000	263,125
10/15/2043	240,000	5.000%	6,000	246,000	246,000
	<u>4,895,000</u>		<u>2,565,825</u>	<u>7,460,825</u>	<u>7,460,825</u>



# *2023 Annual Drinking Water Quality Report*

## **Town of Bar Harbor Water Division**

**Bar Harbor, Maine  
PWSID ME0090120**

We are pleased to present to you our Annual Drinking Water Quality Report, also known as the Consumer Confidence Report. This report, a requirement of the 1996 amendments to the Safe Drinking Water Act, is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

### **WATER SOURCE**

Bar Harbor's water is drawn from Eagle Lake in Acadia National Park. Our water, which serves a population of 4,625 through 1,850 service connections, is treated with chlorine to protect against potential bacteriological contaminants, fluoride to promote dental health, and lime for pH adjustment for corrosion control. In May 2009, our system added chloramines by means of ammonia for additional treatment in an effort to reduce Disinfection By-Products. Due to the exceptional water quality of our source, our water system has a filtration waiver.

### **SOURCE WATER ASSESSMENT**

The Maine Drinking Water Program (DWP) has evaluated all public water supplies as part of the Source Water Assessment Program (SWAP). The assessments included geology, hydrology, land uses, water testing information, and the extent of land ownership or protection by local ordinance to see how likely our drinking water source is to being contaminated by human activities in the future. Assessment results are available at public water suppliers, town offices, and the DWP. For more information about the SWAP, please contact the DWP at telephone 207-287-2070.

If you have any questions about this report or concerning your water system, please contact Bennett Liscomb at telephone number 207-288-3555 or mailing address 50 Public Works Way, Bar Harbor, ME 04609. We want our valued customers to be informed about their water system. If you want to learn more, please contact us about the time and place of regularly scheduled meetings.

### **WATER QUALITY**

Bar Harbor Water Division routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table shows any detection resulting from our monitoring for the period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2023.

In 2023, due to efforts to protect the water supply, our system was granted a 'Synthetic Organics Waiver.' This is a three-year exemption from the monitoring/reporting requirements for the following industrial chemical(s): toxaphene/chlordane/PCB, herbicides, carbamate pesticides and semivolatile organics. This waiver was granted due to the absence of these potential sources of contamination within a half-mile radius of the water source.

The sources of drinking water include rivers, lakes, ponds and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material and can pick up substances resulting from human or animal activity. All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man-made. Contaminants that may be present in source water include:

**Microbial contaminants**, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

**Inorganic contaminants**, such as salts and metals, can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

**Pesticides and herbicides** may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

**Organic chemical contaminants**, including synthetic and volatile organic chemicals, are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

**Radioactive contaminants** can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, U.S. Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The table below lists all of the drinking water contaminants that were detected throughout water quality monitoring and testing. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk.

## Town of Bar Harbor – Water Division had no violations in 2023

<b>TEST RESULTS</b>					
Unless otherwise noted, testing was done in 2023.					
Contaminant	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Microbiological Contaminants</b>					
Total Coliform Bacteria (Sept. 2023)	<b>1 positive</b>	Highest monthly # of positive samples	0 positive	1 pos/mo or 5% (e. coli)	Naturally present in the environment.
Turbidity+	<b>1.30</b>	ntu	n/a	5	Soil runoff.
+ = Highest monthly reading in 2023					
<b>Inorganic Contaminants</b>					
Barium (5/9/23)	<b>0.002</b>	ppm	2	2	Discharge of drilling wastes. Discharge from metal refineries. Erosion of natural deposits.
Copper* (1/1/21-12/31/23)	<b>0.096</b> <i>Range(0.008-0.101)</i>	ppm	1.3	AL=1.3	Corrosion of household plumbing systems.
Fluoride (11/14/23)	<b>0.75</b>	ppm	4	4	Erosion of natural deposits. Water additive that promotes strong teeth. Discharge from fertilizer and aluminum factories.
Lead* (1/1/21-12/31/23)	<b>3.4</b> <i>Range(0-25.3)</i>	ppb	0	AL=15	Corrosion of household plumbing systems.
* = Reported results are the 90 <sup>th</sup> percentile value (the value that 90% of all samples are less than).					
<b>Disinfection By-Products – 2 Schooner Head Road</b>					
HAA5 (2023) [Total Haloacetic Acids]	<b>LRAA = 28</b> <i>(Range 22-33)</i>	ppb	0	60	By-product of drinking water chlorination.
TTHM (2023) [Total Trihalomethanes]	<b>LRAA = 40</b> <i>(Range 29-50)</i>	ppb	0	80	By-product of drinking water chlorination.
<b>Disinfection By-Products – Paradis True Value</b>					
HAA5 (2023) [Total Haloacetic Acids]	<b>LRAA = 28</b> <i>(Range 22-34)</i>	ppb	0	60	By-product of drinking water chlorination.
TTHM (2023) [Total Trihalomethanes]	<b>LRAA = 40</b> <i>(Range 30-51)</i>	ppb	0	80	By-product of drinking water chlorination.

**Note:** The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Not all contaminants are tested for every year due to monitoring waivers and therefore we must use the most recent round of sampling. Some of our data is more than one year old, however, is limited to no older than 5 years.

### Definitions:

**Action Level (AL)** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**Locational Running Annual Average (LRAA)** - A 12 month rolling average of all monthly or quarterly samples at specific sampling locations. Calculation of the RAA may contain data from the previous year.

**Maximum Contaminant Level (MCL)** - is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**Maximum Contaminant Level Goal (MCLG)** - is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**Maximum Residual Disinfection Level (MRDL)** -The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfection Level Goal (MRDLG)** – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**Not Applicable (N/A)** - Does not apply

**Running Annual Average (RAA)** - A 12 month rolling average of all monthly or quarterly samples at all locations. Calculations of the RAA may contain

data from the previous year.

### Secondary Maximum Contaminant Level (SMCL)

**Treatment Technique (TT)** - A required process intended to reduce the level of a contaminant in drinking water (e.g. treatment technique for turbidity).

**Variances, Exemptions, and Waivers** - State or EPA permission not to meet an MCL, a treatment technique or test for a given contaminant under certain conditions.

### Units:

ppm = parts per million or milligrams per liter (mg/L)  
ppb = parts per billion or micrograms per liter (µg/L)

pCi/L = picocuries per liter (a measure of radioactivity)  
ppt = parts per trillion or nanograms per liter (ng/L)

pos = positive samples.  
MFL = million fibers per liter

### Notes:

**Arsenic** - While your drinking water may meet EPA's standard for Arsenic, if it contains between 5 to 10 ppb you should know that the standard balances the current understanding of arsenic's possible health effects against the costs of removing it from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems. Quarterly compliance is based on running annual average.

**E. Coli** - E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely-compromised immune systems.

**Fluoride** - For those systems that fluoridate, fluoride levels must be maintained between 0.5 to 1.2 ppm. The optimum level is 0.7 ppm.

**Gross Alpha** - Action level over 5 pCi/L requires testing for Radium 226 and 228. Action level over 15 pCi/L requires testing for Uranium. Compliance is based on Gross Alpha results minus Uranium results = Net Gross Alpha.

**Lead/Copper** - Action levels (AL) are measured at consumer's tap. 90% of the tests must be equal to or below the action level.

**Nitrate** - Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health provider.

**PFAS** - The degree of risk depends on the level of chemicals and duration of exposure. Laboratory studies of animals exposed to high doses of PFAS have shown numerous negative effects such as issues with reproduction, growth and development, thyroid function, immune system, neurology, as well as injury to the liver. Research is still relatively new, and more needs to be done to fully assess exposure effects on the human body.

**Radon** - The State of Maine adopted a Maximum Exposure Guideline (MEG) for Radon in drinking water at 4000 pCi/L, effective 1/1/07. If Radon exceeds the MEG in water, treatment is recommended. It is also advisable to test indoor air for Radon.

**Total Coliform Bacteria** - Reported as the highest monthly number of positive samples, for water systems that take less than 40 samples per month.

**TTHM/HAA5** - Total Trihalomethanes and Haloacetic Acids (TTHM and HAA5) are formed as a by-product of drinking water chlorination. This chemical reaction occurs when chlorine combines with naturally occurring organic matter in water. Compliance is based on running annual average.

**Turbidity** - Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

## IMPORTANT INFORMATION

Since our system chlorinates its water, we are required to report our annual average for chlorine residual.

**Chlorine Residual** was found to be **1.59 ppm**, with a range of 1.15 ppm to 2.14 ppm.

### Unregulated Contaminants Monitoring

Unregulated contaminants are those for which U.S. EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of these contaminants in drinking water and whether future regulation is warranted. In 2023 we participated in the fifth round of the Unregulated Contaminant Monitoring Rule (UCMR 5). We had no detections of any of the contaminants in this round of testing.

As you can see by the table, our system had no violations. We're proud that your drinking water meets all Federal and State requirements.

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

For most people, the health benefits of drinking plenty of water outweigh any possible health risk from these contaminants. However, some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/Center of Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791) or at <https://www.epa.gov/ccr/forms/contact-us-about-consumer-confidence-reports>.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for thirty (30) seconds to two (2) minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

We, at Bar Harbor Water Division, work hard to provide top quality water to every tap. We ask that all our customers help us protect and preserve our drinking water resources, which are the heart of our community, our way of life, and our children's future. Please contact us with any questions. Thank you for working together for safe drinking water.