
FY19 Water Fund Budget

As Introduced

By The

Finance Director &
Public Works Director

July 9, 2018

Town of Bar Harbor

FY 2019 Water Budget

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Memo

To: Town Councilors; Cornell Knight, Town Manager

From: Stan Harmon, Finance Director

CC: Chip Reeves, Public Works Director; Jeff Van Trump, Superintendent

Date: 7/9/18

Re: Water Budget Message – FY2019 Water Budget

Summary

This FY2019 budget for the Bar Harbor Water Division specifically recommends the following changes from last year's 2018 budget:

- **No rate increase for the 3rd year in a row**
- **Gross capital expenditures projected at \$206,000, with no bonding**
- **A 1.0% budgeted increase of anticipated revenues**
- **A 2.5% budgeted increase of cash operating expenses**

You will find attached the proposed budget for FY' 19. Revenues are projected to be 1.0% than the FY18 budget and level with the FY18 results. Total operating expenses over the 2018 budget are scheduled to increase by .6%. Capital spending is requested at \$206,000; covered by internally generated funds. The fiscal year just ending (FY18) projects a positive cash flow of approximately \$72,000, primarily because of a staff shortage and other miscellaneous items. Next year, we are budgeting for \$68,000 in excess cash generated, or 3% of revenues.

Statistical Infrastructure & Operational Data of the Water Division

There are 1780 metered customers, of which 70%, or 1245 accounts, are classified as Residential. 25% of these total metered customers as well as 22% of the related revenue volume are seasonal customers, but all customers receive their bills quarterly. There are 87 customers related to non-metered sprinkler and private hydrant fire protection.

Investment in plant and infrastructure totals increased by \$8.5 million since the Town purchased the Water Company in 2001. The water *mains* in its service areas total 29.6 miles with distribution pipe sized from 1" to 12". Since 2001 the Division has invested in 7.2 miles of new mains while retiring 5.2 miles. Design capacity is approximately 2400 gallons per minute. 343 million gallons are sent through the transmission mains annually with about 13% unaccounted for; down from 30% ten years ago. Some of this unaccounted for lost water is due to the aging efficiency of measured water flowing through old meters. Jackson Lab is 7% of the total revenue for the utility, but 11% of the metered revenues. The Jax Lab was keeping close to their estimates of water usage (stable use, despite Ellsworth facility coming on line); however, there was a volume

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decrease in the most current quarter. *Employees* at the Water Division numbered 6 in 2001 and stand at 5.5 in this budget; reduced 4 years ago. Management/Accounting administrative fees charged by the Town to the Water Division have remained relatively stable since 2001. 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 2017 annual filing with the *Public Utilities Commission* provides additional detail operating data and is located on the State PUC website as well as the Town website under the Water Division of Public Works.

Current Water Rates & Average Customer Bill (no changes from last year)

- 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. Bar Harbor's typical quarterly average household charge for 2000 cubic feet currently is \$111.53, still below the average rate of \$114.84 for 15 selected comparable communities. As a comparison, the Town's sewer customers pay quarterly fees for *wastewater* usage of \$46.80 (for a minimum-allowing 600 cuft usage) and \$156.00 (2000 cuft-for a small family).
- *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 \$446 per annum for a family of four in Bar Harbor or \$37.18 per month. Refer to pages 23-24 for other water utility rate comparisons.

Volume

This budget assumes a .9% decrease in volume from the FY 18 budget but a 4.8% increase from the current FY 18 actual volume. The trend still seems to be stabilizing from the previous downtrends since the 2008 recession started. Page 15 shows the trends of total annual water sales since 2013 in six month rolling averages which shows 4% less volume compared to 4.5 years ago. We anticipate very limited reduction in water volume from the Lab as they transition to its Ellsworth production facility. However, their long term water use projections provided to the Town show generally level usage for the next 5 years and their projections for usage provided to the Public Works Director were within 2% of the actual usage, until the most recent quarter when Ellsworth began to come on line.

Revenues

The 2019 budget assumes fairly level gross revenue with the same rate structure compared to FY2018 estimated and the FY2018 budget. A dry or wet season is the largest factor in our fluctuation of revenues.

Operating Expenditures

The proposed FY2019 water budget reflects a .6% overall increase in operating expenses over the FY '18 budget year and a 2.0% increase over this past year's estimated final expenses. Payroll and benefits, in total, are anticipated to reflect a 1.0% decrease below last year's budget. The budgeted wage increase is 3.0% (2% COLA + 1% insurance changeover bonus), but due to staff changeover, the base wage levels are reduced from last year. The bulk of the increase in benefits relates to health insurance.

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Major line item increases of \$1500 or more in projected cash expenses anticipated in FY2019 above last year's budget are as follows:

- Benefits-Health Ins. Stipend **-\$5162**, (\$8,500) switched to an insurance opt out program
- Benefits-Health Ins. **-\$5225**, (\$7,000) new lower cost insurance plan
- Benefits Opt Out Stipend **-\$5230**, \$5,500 switched from a wage stipend option
- Benefits-Health Reimb. Acct. **-\$5290**, \$9,600 to fund a new program for higher deductibles
- Supplies-CO2 **-\$5426**, \$2,000 is primarily due to pricing
- Supplies-Operating **-\$5438**, \$2,100 for increase overall expenditures
- Repairs/Mt-Wtr Treat Eq **-\$5634**, \$2,000 for general costs of minor equipment
- Repairs/Mt-Services **-\$5650**, \$2,500 for continued service breaks
- Equipment-Computers **-\$5700**, \$6,600 for computer replacements
\$2,200 for 3 tablets used in the field for mapping
\$3,000 for phone replacements
- Equipment-Operations **-\$5704**, \$3,500 for workzone safety signs
\$2,000 for inverter for pickup
- Insurance-Vehicles **-\$5826**, \$2,156 for higher allocation

What Were the Results of Actual FY18 Operating Expenses vs the FY18 Budget?

The Water Division's FY' 18 projected actual operating expense results will end just below the 2018 spending budget this year, within \$20,000+/-, or less than 1%.

Some of the major expense line items that were over budget this past year (FY18) include:

- Only two cash expenditure line items are projected to be overspent of any significance
- Benefits- Opt Out Stipend **-\$5230**, \$7,000 for switch from Health ins. coverage
- Supplies-CO2 **-\$5426**, \$2,000 is primarily due to pricing
- Operating Supplies **-\$5438**, \$5,900 for general supplies
- Repairs Mains **-\$5628**, \$9,000 for more main breaks
- Repairs/Mt-Wtr Treat Eq **-\$5634**, \$5,600 for minor equipment replacements
- Repairs Services **-\$5650**, \$12,000 for more service breaks
- Repairs Vehicles **-\$5658**, \$5,000 for more vehicle repairs
- Computers/Printers **-\$5700**, \$2,600 for added equipment for use in field
- Vehicle Insurance **-\$5826**, \$1,900 for higher cost allocation

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 budgets 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 109 public hydrants in the downtown area out to Hulls Cove.

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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 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, the last rate case determined that number to be \$585,602. This charge of \$585,602 to the Town’s taxpayers is shown as an expense in the Town Budget and shown as anticipated revenue in this Water budget. 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).

The Town in 2016 received an improved ISO (*Insurance Services Office*) rating, which over time may lower fire insurance premiums for home and business owners. The rating went from a 5/9 to a 4/4x rating which reflects the Town’s continued measureable 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 2017. Due to the continued exceptional water quality of our source, the surrounding protection of the watershed, the water system has a filtration waiver.

Debt Service

As of June 30, 2018, total principal in obligated debt for the water users stands at \$6,030,765, or approximately 36% of all direct debt obligations of the Town. The \$1.7 million borrowed at Town Meeting in June of 2016 is 50% spent and will be paid to the State Contractor for the Rte #3 project (through the MDOT) as the project is completed in the Fall of 2018. In the FY2019 budget, the debt service is projected to be at \$717,000 or approximately 34% of the total annually revenues presently generated. All current debt is currently fully funded within the existing rate structure with interest rates ranging from 1.5% to 4%.

Future Debt—the 5 year CIP spending plan shows another \$1,400,000 in monies that needs to be borrowed for replacement of aging mains starting by year three. These are projects that were postponed when the entire Consolidated Capital Plan was deferred to avoid new bonding for a certain period. The total estimated new annual debt service added at 4% interest towards the end of the next 4 years would likely require a 5% rate increase.

Capital Outlay

The Town has invested \$8,506,999 (*75% from bonds*) on capital improvements since the purchase of the company in 2001. In fiscal year 2017/18 the Water division spent or committed \$1,976,100 for necessary capital investments. The proposed FY’ 19 capital budget requests \$206,000 and is funded by operating cash flow. The Water Division now raises well over \$225,000 per year available from its own cash flow for capital equipment and small project costs.

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FY 2019 Capital Spending (CIP) Recap

Mains-	\$80,000	—Replacement not yet identified
Hydrants-	\$10,000	---Annual hydrants replacement program
Services-	\$10,000	---Normal service renewals related to main replacements
Engineering	\$15,500	—Update water Master Plan (+ carryover from FY18)
Tanks-	\$50,000	—Demo the Dreamwood Hill Tank
Paving Lot	\$15,000	—Pumphouse lot
Equipment	\$ 5,500	—New CO2 Flo meter
Reserve	\$20,000	---General CIP reserve
	<u>\$206,000</u>	Total FY19 CIP

Working Capital/Cash Flow

A conservative method for measuring a healthy working capital formula for a utility that bills in advance is to use 3 months or 25% of annual cash expenses, including the annual debt service. This target calculates to a \$450,000 estimated requirement as of June 30, 2018. 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 unspent Bond monies—however, it is much healthier than in years past. The proposed budget projections show adding a positive net cash flow from FY2018 operations of \$71,897 and \$68,015 in FY2019 without the need for a rate increase.

Water Master Plan

The prior Water Master Plan was completed in April of 2005. Much of those recommendations have been funded and implemented. Staff has recommended to hire engineers to update this plan in FY2018 to use as a continuing guide, a living document so to speak, 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. A completion date for the Plan has not yet been set.

Some items that may be looked at within the Master Plan would perhaps be reviewing & choosing priorities for the next primary focus of attention; such as, identifying bottle necks of constricted flow in the distribution system, 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.

Town Council Action – The next step is for the Town Council to pass a motion to adopt the Water Budget and Ordinance, as proposed, (*or amended*) and schedule a public hearing on August____,2018.

Water Budget Ordinance Amendment

Town of Bar Harbor

An Ordinance Amendment to Adopt the Fiscal Year 2019 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

ARTICLE III, Water Budget, Rates Fees and Charges

§ 201-11 Water budget.

[Amended 10-4-2011 by Ord. No. 2011-03; 10-16-2012 by Ord. No. 2012-05; 6-18-2013 by Ord. No. 2013-02; 8-19-2014 by Ord. No. 2014-05; 6-16-2015 by Ord. No. 2015-01; 7-19-2016 by Ord. No. 2016-03; 6-20-2017 by Ord. No. 2017-02]

- A. Budget ~~adopted~~ introduced. The fiscal year 2018~~9~~ Water Budget, dated ~~May 16, 2017~~ July 9, 2018, is hereby ~~adopted~~ introduced as published and summarized below.
- (1) Cash. Net cash generated is estimated to be ~~\$95,419~~ 68,015.
 - (2) Revenues.
 - (a) PUC regulated revenues are estimated to be ~~\$2,069,802~~ 2,091,302.
 - (b) Total water revenues are estimated to be ~~\$2,083,302~~ 2,106,302.
 - (3) Expenses. The following appropriations are hereby approved:
 - (a) Nonoperating expenses: ~~\$4,600~~ <3,600>.
 - (b) Salaries and wages: ~~\$300,385~~ 294,962.
 - (c) Payroll benefits: ~~\$148,200~~ 149,000.
 - (d) Contractual services: ~~\$270,258~~ 270,372.
 - (e) Materials and supplies: ~~\$114,500~~ 118,300.
 - (f) Utilities and commodities: ~~\$60,000~~ 60,400.
 - (g) Repairs and maintenance: ~~\$147,600~~ 153,600.
 - (h) Equipment purchases: ~~\$3,700~~ 17,300.
 - (i) Other: insurance, travel, advertising and miscellaneous: ~~\$45,384~~ 46,400.
 - (j) Interest: ~~\$156,322~~ 157,000.
 - (k) Depreciation and amortization: ~~\$306,883~~ 304,883.
 - (l) Capital spending: ~~\$168,286~~ 206,000.

[end of ordinance]

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FY 2019
Water Budget

APY	BTY	ETY	RNY	RNY	RNY	RNY
Actual Last Yr. 6/30/2017 FY17 Actual	Budget This Yr 6/30/2018 FY18 Budget	Estimate This Yr 6/30/2018 FY18 Estimate	Request Next Yr 6/30/2019 FY19 Budget	\$ Change vs. Bgt.'18	% Change vs. Bgt.'18	% Change vs. Est.'18

<i>Net Income Statement -</i>	<i>SUMMARY PAGE</i>
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Volume:	('000's cubic feet)	33,829	32,500	30,732	32,200	-0.9%	4.8%
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Operating Revenues	\$	2,171,397	\$	2,069,802	\$	2,092,302	\$	2,091,302	\$	21,500	1.0%	0.0%
Operating Expenses:												
Payroll & Benefits	\$	380,816	\$	448,586	\$	408,444	\$	443,962	\$	(4,624)	-1.0%	8.7%
Contractual Services	\$	251,098	\$	270,258	\$	268,920	\$	270,372	\$	114	0.0%	0.5%
Materials & Supplies	\$	93,754	\$	114,800	\$	120,223	\$	118,300	\$	3,500	3.0%	-1.6%
Utilities & Commodities	\$	54,286	\$	60,000	\$	58,300	\$	60,400	\$	400	0.7%	3.6%
Repairs & Maintenance	\$	133,194	\$	147,600	\$	174,279	\$	153,600	\$	6,000	4.1%	-11.9%
Minor Equipment Purchases	\$	8,586	\$	3,700	\$	8,029	\$	17,300	\$	13,600	367.6%	115.5%
Other Miscellaneous Expenses	\$	38,040	\$	45,384	\$	44,002	\$	46,300	\$	916	2.0%	5.2%
Depreciation & Amortization	\$	308,246	\$	306,883	\$	295,883	\$	295,883	\$	(11,000)	-3.6%	0.0%
Utility Operating Expenses:	\$	1,268,020	\$	1,397,211	\$	1,378,080	\$	1,406,117	\$	8,906	0.6%	2.0%
Net Utility Operating Income	\$	903,377	\$	672,591	\$	714,222	\$	685,185	\$	12,594	1.9%	-4.1%
Interest Income	\$	14,038	\$	4,500	\$	13,000	\$	6,000	\$	1,500		
Non-Utility Income, net of expense	\$	90,142	\$	3,600	\$	2,600	\$	3,600	\$	1,000		
Interest Costs	\$	165,425	\$	156,322	\$	156,322	\$	144,610	\$	(11,712)		
NET INCOME	\$	842,132	\$	524,369	\$	573,500	\$	550,175	\$	25,806	4.9%	-4.1%

Conversion to Cash Basis:

Add back: Deprciation & Acqtn. Adjtmnt.	\$	308,246	\$	306,883	\$	295,883	\$	295,883
Less: Principal Debt Retired	\$	(562,195)	\$	(567,548)	\$	(567,548)	\$	(571,943)
Cash Available for C.I.P.	\$	588,183	\$	263,704	\$	301,835	\$	274,115
Less: Capital Expenditures (From Internal Funds)	\$	(192,923)	\$	(168,386)	\$	(229,938)	\$	(206,000)
Net Cash Generation (Drawdown)	\$	395,260	\$	95,318	\$	71,897	\$	68,115

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	APY	BTY	ETY	RNY	RNY	RNY	RNY
	Actual Last Yr.	Budget This Yr.	Estimate This Yr.	Request Next Yr.	\$ Change	% Change	% Change
	6/30/2017	6/30/2018	6/30/2018	6/30/2019	vs. Bgt.'18	vs. Bgt.'18	vs. Est.'18
	FY17 Actual	FY18 Budget	FY18 Estimate	FY19 Budget			

Revenues

4098	Revenues: Misc. Non Operational								
4924	Jobbing Income	\$ 10,276	\$ 9,000	\$ 8,000	\$ 9,000	\$ -			
4700	Investment Interest Income	\$ 14,038	\$ 4,500	\$ 13,000	\$ 6,000	\$ 1,500			
4928	Nonutility Income- FA Sales	\$ 55,675	\$ -	\$ -	\$ -	\$ -			
	Other Income Total	\$ 79,989	\$ 13,500	\$ 21,000	\$ 15,000	\$ 1,500	11%	-28.6%	
4098	PUC Regulated Revenues:								
4704	Penalty Interest Income	\$ 2,048	\$ 1,700	\$ 1,700	\$ 1,700	\$ -	0.0%	0.0%	
4900	Metered Residential Sales-Qtrly	\$ 431,224	\$ 428,000	\$ 433,000	\$ 432,000	\$ 4,000	0.9%	-0.2%	
4901	Metered Residential Sales-Seas.	\$ 128,972	\$ 100,000	\$ 115,000	\$ 111,000	\$ 11,000	11.0%	-3.5%	
4902	Metered Commercial Sales-Qtrly	\$ 366,025	\$ 352,000	\$ 358,000	\$ 357,000	\$ 5,000	1.4%	-0.3%	
4903	Metered Commercial Sales-Seas.	\$ 272,883	\$ 250,000	\$ 243,000	\$ 246,000	\$ (4,000)	-1.6%	1.2%	
4904	Metered Indstrl Sales-Jax Lab-Qtrly	\$ 163,033	\$ 148,000	\$ 140,000	\$ 145,000	\$ (3,000)	-2.0%	3.6%	
4905	Metered Indstrl Sales-Jax Lab-Seas.	\$ 5,840	\$ 4,000	\$ 5,000	\$ 5,000	\$ 1,000	25.0%	0.0%	
4906	Metered Sales Government-Qtrly	\$ 40,199	\$ 36,000	\$ 40,000	\$ 38,000	\$ 2,000	5.6%	-5.0%	
4907	Metered Sales Government-Seas.	\$ 35,516	\$ 27,000	\$ 30,000	\$ 29,000	\$ 2,000	7.4%	-3.3%	
4920	Public Fire Protection/Hydrant -	\$ 585,604	\$ 585,602	\$ 585,602	\$ 585,602	\$ -	0.0%	0.0%	
4922	Private Fire Protection	\$ 128,485	\$ 128,000	\$ 131,000	\$ 131,000	\$ 3,000	2.3%	0.0%	
4938	Misc Water Fees	\$ 11,568	\$ 9,500	\$ 10,000	\$ 10,000	\$ 500	5.3%	0.0%	
	Subtotal-PUC Regulated Revenues	\$ 2,171,397	\$ 2,069,802	\$ 2,092,302	\$ 2,091,302	\$ 21,500	1.0%	0.0%	
	Total Water Revenues	\$ 2,251,386	\$ 2,083,302	\$ 2,113,302	\$ 2,106,302	\$ 23,000	1.1%	-0.3%	

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	APY	BTY	ETY	RNY	RNY	RNY	RNY
	Actual Last Yr.	Budget This Yr.	Estimate This Yr.	Request Next Yr.	\$ Change	% Change	% Change
	6/30/2017	6/30/2018	6/30/2018	6/30/2019	vs. Bgt.'18	vs. Bgt.'18	vs. Est.'18
	FY17 Actual	FY18 Budget	FY18 Estimate	FY19 Budget			

Expenses

4098	49 - NON OPERATING EXPENSES:								
	6002 Amortization-Cont In Aid of Construction	\$ (34,957)	\$ (10,000)	\$ (9,000)	\$ (9,000)	\$ 1,000			
	6016 Loss of Disposal of Assets	\$ 1,917	\$ -	\$ -	\$ -	\$ -			
	6018 L.T. Pension Liab Exp (PUC exp)	\$ -	\$ -	\$ -	\$ -	\$ -			
	6020 Jobbing Supplies & Expenses	\$ 8,849	\$ 5,400	\$ 5,400	\$ 5,400	\$ -			
	Total Non Operating Expenses:	\$ (24,191)	\$ (4,600)	\$ (3,600)	\$ (3,600)	\$ 1,000	-21.7%	0.0%	
4098-	51 - WAGES:								
	5100 Wages-Salaries	\$ 42,563	\$ 42,614	\$ 42,950	\$ 43,466	\$ 852	2.0%	1.2%	
	5105 Wages-Hourly	\$ 175,969	\$ 218,115	\$ 190,000	\$ 207,187	\$ (10,928)	-5.0%	9.0%	
	5110 Wages-Overtime	\$ 47,968	\$ 43,157	\$ 47,334	\$ 44,309	\$ 1,152	2.7%	-6.4%	
	5165 Wages-Reclass to CIP	\$ (127)	\$ (3,500)	\$ (1,000)	\$ -	\$ 3,500	-100.0%	-100.0%	
	5175 Wages-Vacation Accruals	\$ -	\$ -	\$ -	\$ -	\$ -			
	Total Salaries & Wages-Operations:	\$ 266,373	\$ 300,386	\$ 279,284	\$ 294,962	\$ (5,424)	-1.8%	5.6%	
4098-	52 - PAYROLL BENEFITS:								
	5160 Benefits-ICMA Wages	\$ 2,748	\$ 3,300	\$ 2,725	\$ 3,300	\$ -	0.0%	21.1%	
	5162 Benefits-Health Ins Wage Stipend	\$ 6,432	\$ 8,500	\$ -	\$ -	\$ (8,500)			
	5200 Benefits-FICA/Medicare	\$ 18,855	\$ 22,500	\$ 19,000	\$ 22,500	\$ -	0.0%	18.4%	
	5210 Benefits-MSRS Pension (PUC exp)	\$ 20,218	\$ 20,000	\$ 18,900	\$ 20,500	\$ 500	2.5%	8.5%	
	5215 Benefits-Workers Compensation	\$ 4,833	\$ 7,000	\$ 6,000	\$ 7,000	\$ -	0.0%	16.7%	
	5220 Benefits-Unemployment Compensation	\$ 1,634	\$ 1,700	\$ 1,600	\$ 1,700	\$ -	0.0%	6.3%	
	5225 Benefits-Health Insurance	\$ 51,862	\$ 74,000	\$ 60,000	\$ 67,000	\$ (7,000)	-9.5%	11.7%	
	5230 Benefits-Health Ins - Opt Out Program	\$ 7,891	\$ 11,000	\$ 18,000	\$ 16,500	\$ 5,500	50.0%	-8.3%	
	5245 Benefits-Retirement Health Savings Plan	\$ -	\$ 900	\$ 85	\$ 900	\$ -	0.0%	958.8%	
	5270 Benefits-Transfer to Capital Projects	\$ (30)	\$ (700)	\$ (400)	\$ -	\$ 700	-100.0%	-100.0%	
	5290 Benefits-Health Reimb. Account	\$ -	\$ -	\$ 3,250	\$ 9,600	\$ 9,600			
	Total PAYROLL BENEFITS:	\$ 114,443	\$ 148,200	\$ 129,160	\$ 149,000	\$ 800	0.5%	15.4%	

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	APY	BTY	ETY	RNY	RNY	RNY	RNY	
	Actual Last Yr.	Budget This Yr.	Estimate This Yr.	Request Next Yr.	\$ Change	% Change	% Change	
	6/30/2017	6/30/2018	6/30/2018	6/30/2019	vs. Bgt.'18	vs. Bgt.'18	vs. Est.'18	
	FY17 Actual	FY18 Budget	FY18 Estimate	FY19 Budget				
4098-	53 - CONTRACTUAL SERVICES:							
5304	Cont Srv-Auditing/Accounting	\$ 2,100	\$ 2,200	\$ 2,200	\$ 2,300	\$ 100	5%	5%
5306	Cont Srv-BH Town Mgt Services	\$ 79,121	\$ 82,648	\$ 82,648	\$ 81,612	\$ (1,036)	-1%	-1%
5312	Cont Srv-Duckbrook Septic Pumping	\$ 648	\$ 2,000	\$ 1,000	\$ 2,000	\$ -	0%	100%
5314	Cont Srv-Copier/Postage Equipment	\$ 1,878	\$ 1,600	\$ 1,890	\$ 1,900	\$ 300	19%	1%
5315	Cont Srv-Courier Services- Wtr Samples	\$ 6,930	\$ 7,300	\$ 7,300	\$ 7,500	\$ 200	3%	3%
5326	Cont Srv-Engineering & Surveying	\$ -	\$ 8,000	\$ 7,000	\$ 7,000	\$ (1,000)	-13%	0%
5332	Cont Srv-Generator Maintenance	\$ 375	\$ 660	\$ 650	\$ 660	\$ -	0%	2%
5334	Cont Srv-Gen Prof. Fees	\$ 336	\$ 1,500	\$ 1,500	\$ 1,500	\$ -	0%	0%
5336	Cont Srv-Water Treatmnt C02 Tank	\$ 13,743	\$ 11,800	\$ 11,939	\$ 12,200	\$ 400	3%	2%
5340	Cont Srv-Legal Fees	\$ -	\$ 1,000	\$ 1,000	\$ 1,000	\$ -	0%	0%
5348	Cont Srv-Mowing	\$ 1,365	\$ 1,400	\$ 1,300	\$ 1,400	\$ -	0%	8%
5360	Cont Srv-Printing of Reports	\$ -	\$ 700	\$ 700	\$ 700	\$ -	0%	0%
5364	Cont Srv-Lease 1/3 PWrks Bldg	\$ 79,081	\$ 79,200	\$ 79,107	\$ 79,200	\$ -	0%	0%
5368	Cont Srv-Comp Lic & Suppt	\$ 12,748	\$ 16,400	\$ 14,800	\$ 16,400	\$ -	0%	11%
5372	Cont Srv-Standpipe/Intake Clean/Inspect's	\$ 16,278	\$ 16,500	\$ 17,032	\$ 17,000	\$ 500	0%	0%
5374	Cont Srv-Tank Paint Maint. Amort. (PUC exp)	\$ 27,000	\$ 27,000	\$ 27,000	\$ 27,000	\$ -	0%	0%
5378	Cont Srv-Test/Maint. of Equipment	\$ 1,470	\$ 1,350	\$ 2,854	\$ 2,000	\$ 650	0%	-30%
5384	Cont Srv-Testing Water Samples	\$ 8,025	\$ 9,000	\$ 9,000	\$ 9,000	\$ -	0%	0%
	Total CONTRACTUAL SERVICES	\$ 251,098	\$ 270,258	\$ 268,920	\$ 270,372	\$ 114	0%	0.5%
4098	54 - MATERIALS & SUPPLIES:							
5410	Supplies-Clothing, Uniforms, Boots	\$ 1,830	\$ 3,800	\$ 4,944	\$ 4,000	\$ 200	5%	-19%
5412	Supplies-Copier & Computers	\$ 1,387	\$ 1,600	\$ 1,800	\$ 1,700	\$ 100	6%	-6%
5418	Supplies-Forms, Checks & Misc	\$ 320	\$ 1,000	\$ 1,000	\$ 1,000	\$ -	0%	0%
5423	Supplies-Ammonia	\$ 5,340	\$ 5,400	\$ 5,400	\$ 5,400	\$ -	0%	0%
5424	Supplies-Sod. Hypochlorite	\$ 24,101	\$ 36,000	\$ 35,000	\$ 36,000	\$ -	0%	3%
5425	Supplies-Flouride	\$ 9,683	\$ 7,500	\$ 7,000	\$ 7,500	\$ -	0%	7%
5426	Supplies-CO2	\$ 15,192	\$ 15,000	\$ 17,000	\$ 17,000	\$ 2,000	13%	0%
5427	Supplies-Lime	\$ 7,362	\$ 12,400	\$ 11,000	\$ 11,500	\$ (900)	-7%	5%
5428	Supplies-Water Treatment	\$ 10,000	\$ 12,500	\$ 12,500	\$ 12,500	\$ -	0%	0%
5436	Supplies-Office	\$ 1,850	\$ 2,400	\$ 2,300	\$ 2,400	\$ -	0%	4%
5438	Supplies-Operating	\$ 10,780	\$ 9,900	\$ 15,879	\$ 12,000	\$ 2,100	21%	-24%
5444	Supplies-Safety Supplies	\$ 1,635	\$ 2,800	\$ 2,400	\$ 2,800	\$ -	0%	17%
5458	Supplies-Vehicle	\$ 4,274	\$ 4,500	\$ 4,000	\$ 4,500	\$ -	0%	13%
	Total MATERIAL & SUPPLIES:	\$ 93,754	\$ 114,800	\$ 120,223	\$ 118,300	\$ 3,500	3%	-2%

Town of Bar Harbor
FY 2019
Water Budget

		APY	BTY	ETY	RNY	RNY	RNY	RNY
		Actual Last Yr.	Budget This Yr	Estimate This Yr	Request Next Yr	\$ Change	% Change	% Change
		6/30/2017	6/30/2018	6/30/2018	6/30/2019	vs. Bgt.'18	vs. Bgt.'18	vs. Est.'18
		FY17 Actual	FY18 Budget	FY18 Estimate	FY19 Budget			
4098	55 - UTILITIES & COMMODITIES:							
5504	Utility-Electricity	\$ 30,845	\$ 31,500	\$ 31,500	\$ 31,800	\$ 300	1%	1%
5506	Utility-Electricity Pumping	\$ 1,871	\$ 3,300	\$ 3,000	\$ 3,100	\$ (200)	-6%	3%
5514	Utility-Motor Fuel-Diesel	\$ 431	\$ 1,500	\$ 1,400	\$ 1,500	\$ -	0%	7%
5516	Utility-Motor Fuel-Gasoline	\$ 9,788	\$ 10,500	\$ 9,500	\$ 10,500	\$ -	0%	11%
5520	Utility-Propane	\$ 6,126	\$ 8,500	\$ 8,000	\$ 8,500	\$ -	0%	6%
5528	Utility-Telephone & Cellular	\$ 4,778	\$ 4,100	\$ 4,300	\$ 4,400	\$ 300	7%	2%
5530	Utility-Water	\$ 447	\$ 600	\$ 600	\$ 600	\$ -	0%	0%
	Total UTILITIES & COMMODITIES	\$ 54,286	\$ 60,000	\$ 58,300	\$ 60,400	\$ 400	1%	4%
4098	56 -REPAIRS & MAINTENANCE							
5602	Rep & Mt-Buildings	\$ 4,051	\$ 2,000	\$ 1,000	\$ 2,000	\$ -	0%	100%
5618	Rep & Mt-Equipment, Gen'l	\$ 4,342	\$ 2,500	\$ 2,500	\$ 2,500	\$ -	0%	0%
5626	Rep & Mt-Hydrants	\$ 4,306	\$ 7,500	\$ 7,000	\$ 7,500	\$ -	0%	7%
5628	Rep & Mt-Mains	\$ 38,641	\$ 40,000	\$ 49,138	\$ 41,000	\$ 1,000	3%	-17%
5630	Rep & Mt-Meters	\$ 33,254	\$ 63,000	\$ 59,000	\$ 63,000	\$ -	0%	7%
5634	Rep & Mt-Plant & Wtr Treatmnt Equipmnt	\$ 16,097	\$ 9,000	\$ 14,671	\$ 11,000	\$ 2,000	22%	-25%
5642	Rep & Mt-Pumping Equipment	\$ 7,390	\$ 3,300	\$ 3,300	\$ 3,300	\$ -	0%	0%
5650	Rep & Mt-Services	\$ 19,519	\$ 15,000	\$ 27,340	\$ 17,500	\$ 2,500	17%	-36%
5652	Rep & Mt-Standpipes	\$ 879	\$ 800	\$ 900	\$ 800	\$ -	0%	-11%
5658	Rep & Mt-Vehicles	\$ 4,715	\$ 4,500	\$ 9,430	\$ 5,000	\$ 500	11%	-47%
	Total REPAIRS & MAINTENANCE	\$ 133,194	\$ 147,600	\$ 174,279	\$ 153,600	\$ 6,000	4%	-12%
4098	57 -EQUIPMENT PURCHASES							
5700	Equip Purch-Computers & Printers	\$ 2,252	\$ 2,700	\$ 5,332	\$ 11,800	\$ 9,100	337%	121%
5702	Equip Purch-Office Furniture	\$ 653	\$ -	\$ 915	\$ -	\$ -	-	-
5704	Equip Purch-Operating Equipment	\$ 5,681	\$ 1,000	\$ 1,782	\$ 5,500	\$ 4,500	450%	209%
	Total EQUIPMENT PURCHASES	\$ 8,586	\$ 3,700	\$ 8,029	\$ 17,300	\$ 13,600	368%	115%

Town of Bar Harbor
FY 2019
Water Budget

		APY	BTY	ETY	RNY	RNY	RNY	RNY
		Actual Last Yr.	Budget This Yr	Estimate This Yr	Request Next Yr	\$ Change	% Change	% Change
		6/30/2017	6/30/2018	6/30/2018	6/30/2019	vs. Bgt.'18	vs. Bgt.'18	vs. Est.'18
		FY17 Actual	FY18 Budget	FY18 Estimate	FY19 Budget			
4098	58 - OTHER-INS, TRVL, ADV, MISC:							
5800	Advertising	\$ 3,177	\$ 2,500	\$ 2,750	\$ 2,500	\$ -	0%	-9%
5802	Uncollectible Customer Accts	\$ -	\$ 1,000	\$ 500	\$ 1,000	\$ -	0%	100%
5808	Dues-Licenses & Other	\$ 2,711	\$ 3,900	\$ 3,800	\$ 3,900	\$ -	0%	3%
5822	Insurance-General & Pub Off. Liab.	\$ 5,802	\$ 6,000	\$ 5,375	\$ 5,186	\$ (814)	-14%	-4%
5824	Insurance-Property & Casualty	\$ 5,744	\$ 6,200	\$ 6,313	\$ 6,158	\$ (42)	-1%	-2%
5826	Insurance-Vehicle Coll./Liab.	\$ 3,046	\$ 3,000	\$ 4,922	\$ 5,156	\$ 2,156	72%	5%
5832	Permits & Fees	\$ 1,066	\$ 600	\$ 600	\$ 600	\$ -		0%
5836	Postage & Shipping Costs	\$ 1,313	\$ 2,600	\$ 2,600	\$ 2,600	\$ -	0%	0%
5840	Regulatory Assessments	\$ 9,257	\$ 11,000	\$ 11,000	\$ 11,000	\$ -	0%	0%
5844	Training, Workshops, Etc.	\$ 1,817	\$ 2,100	\$ 2,100	\$ 2,100	\$ -	0%	0%
5846	Travel, Rooms, Miles & Meals	\$ 222	\$ 2,600	\$ 2,100	\$ 2,600	\$ -	0%	24%
6008	Rate Case Amortization	\$ 3,885	\$ 3,884	\$ 1,942	\$ 3,500	\$ (384)	-10%	80%
	Total OTHER-INS, TRAVL, ADV, MISC	\$ 38,040	\$ 45,384	\$ 44,002	\$ 46,300	\$ 916	2%	5%
4098	59 - UNCLASSIFIED							
5910	Debt Service-Interest	\$ 165,425	\$ 156,322	\$ 157,000	\$ 157,000	\$ 678		
	Total DEBT SERVICE-INTEREST	\$ 165,425	\$ 156,322	\$ 157,000	\$ 157,000	\$ 678	0%	0%
4098	60 - DEPRECIATION & AMORT.:							
6000	Amortization-Acquisition Adjustment	\$ 70,124	\$ 70,124	\$ 70,124	\$ 70,124	\$ -		
6006	Amortization-Debt Expenses	\$ 723	\$ 759	\$ 759	\$ 759	\$ -		
6012	Depreciation-	\$ 224,714	\$ 224,000	\$ 225,000	\$ 225,000	\$ 1,000		
6014	Depreciation-Cont In Aid of Construction	\$ 12,685	\$ 12,000	\$ 9,000	\$ 9,000	\$ (3,000)		
	Total DEPRECIATION & AMORTIZATION EXPS:	\$ 308,246	\$ 306,883	\$ 304,883	\$ 304,883	\$ (2,000)	-1%	0%

Town of Bar Harbor
FY 2019
Water Budget

	APY	BTY	ETY	RNY	RNY	RNY	RNY
	Actual Last Yr.	Budget This Yr.	Estimate This Yr.	Request Next Yr.	\$ Change	% Change	% Change
	6/30/2017	6/30/2018	6/30/2018	6/30/2019	vs. Bgt.'18	vs. Bgt.'18	vs. Est.'18
	FY17 Actual	FY18 Budget	FY18 Estimate	FY19 Budget			
Capital Expenditures							
4098-	CAPITAL SPENDING						
6900	Update Master Plan	\$ -	\$ 35,000	\$ -	\$ 15,500		
6906	Lakehse PLC Upgrade/Turbidity Meter	\$ 8,843	\$ -	\$ -	\$ -		
6908	Asset Management System	\$ 15,900	\$ 9,100	\$ 9,100	\$ -		
6910			\$ -	\$ -	\$ -		
6912	New CO2 Flow Meter	\$ -	\$ -	\$ -	\$ 5,500		
6914	Pipe Fusion Machine	\$ 21,111	\$ -	\$ -	\$ -		
6916	Demo Dreamwood Hill Tank	\$ -	\$ -	\$ -	\$ 50,000		
6912	Actuator Valve-PS & Heat Trace CO2	\$ -	\$ 11,000	\$ 11,000	\$ -		
6916	Pumphouse-refinish/paint walls	\$ 12,390	\$ -	\$ -	\$ -		
6916	Pumphouse-Paving lot	\$ -	\$ -	\$ -	\$ 15,000		
6918	Hydrants Replacements	\$ 10,440	\$ 10,000	\$ 10,000	\$ 10,000		
6922	Main Replacements	\$ 92,455	\$ 159,838	\$ 159,838	\$ 80,000		
6924	Added A/C unit in the UV room	\$ 6,863	\$ -	\$ -	\$ -		
6928	Service Replacements	\$ 26,310	\$ 10,000	\$ 10,000	\$ 10,000		
6922	Mains- Route #3 Project	\$ 657,333	\$ 1,114,412	\$ 1,114,412	\$ -		
6932	Vehicles-Snow plow unit	\$ 5,216	\$ -	\$ -	\$ -		
6950	CIP Reserve-	\$ -	\$ 30,000	\$ 30,000	\$ 20,000		
	Totals-Gross Capital Spending	\$ 856,861	\$ 1,379,350	\$ 1,344,350	\$ 206,000	-85%	-85%
	Less: CIAC	\$ (6,605)	\$ -	\$ -	\$ -		
	Less: Bonding (mains)	\$ (657,333)	\$ (1,114,412)	\$ (1,114,412)	\$ -		
	Net Capital Spending (internal funds)	\$ 192,923	\$ 264,938	\$ 229,938	\$ 206,000	-22%	-10%
	Less: FY17 Carryover		\$ (96,552)	\$ (96,552)			
	=Original Budget Spending		\$ 168,386	\$ 133,386	\$ 206,000	22%	

Town of Bar Harbor
FY 2019
Water Budget

List of Positions - Authorized Wages

A/c #	-base pay-	Present Rate @ 6-30-18	June '18 Base Wage	Proposed 2.0% Rate or Hours 2080	FY19 Proposed Base Wages 2.0%	Proposed FY19 Budget
5100	Superintendent -Salary- Van Trump <i>Less 1/2 charged to Wastewater</i>	\$ 85,228	\$ 85,228		\$ 86,933 \$ (43,466)	\$ 86,933 \$ (43,466)
	Foreman/Lic.Oper.-AL	\$ 21.35	\$ 44,408	\$ 21.78	\$ 45,296	\$ 45,296
	Office Manager-NW	\$ 21.30	\$ 44,304	\$ 21.73	\$ 45,190	\$ 45,190
	Water Maint/Eqpt Worker-BL	\$ 18.02	\$ 37,482	\$ 18.38	\$ 38,231	\$ 38,231
	Water Maint. Worker-MA	\$ 15.50	\$ 32,240	\$ 15.81	\$ 32,885	\$ 32,885
	Water Maint. Worker-JA	\$ 15.50	\$ 32,240	\$ 15.81	\$ 32,885	\$ 32,885
	Probationary & Wage Adjustments		\$ 10,000		\$ 10,300	\$ 10,300
	1% Bonus for Changing Ins. Plans				\$ -	\$ 2,400
5105	Total wages-hourly		\$ 200,674		\$ 204,787	\$ 207,187
	Scheduled Overtime-Avg. OT rate (3)	\$ 30.34	\$ 25,243	832	\$ 25,743	\$ 25,743
	Unscheduled Overtime-Avg. OT rate (3)	\$ 30.34	\$ 15,272	600	\$ 18,565	\$ 18,565
5110	Total wages-overtime		\$ 40,515		\$ 44,309	\$ 44,309
	Totals - Salaries & Wages		\$ 326,417		\$ 292,562	\$ 294,962
	Actual Unscheduled Overtime Hours - CY 2017			826		
	Actual Unscheduled Overtime Hours - CY 2016			726		
	Actual Unscheduled Overtime Hours - CY 2015			741		
	Actual Unscheduled Overtime Hours - CY 2014			836		

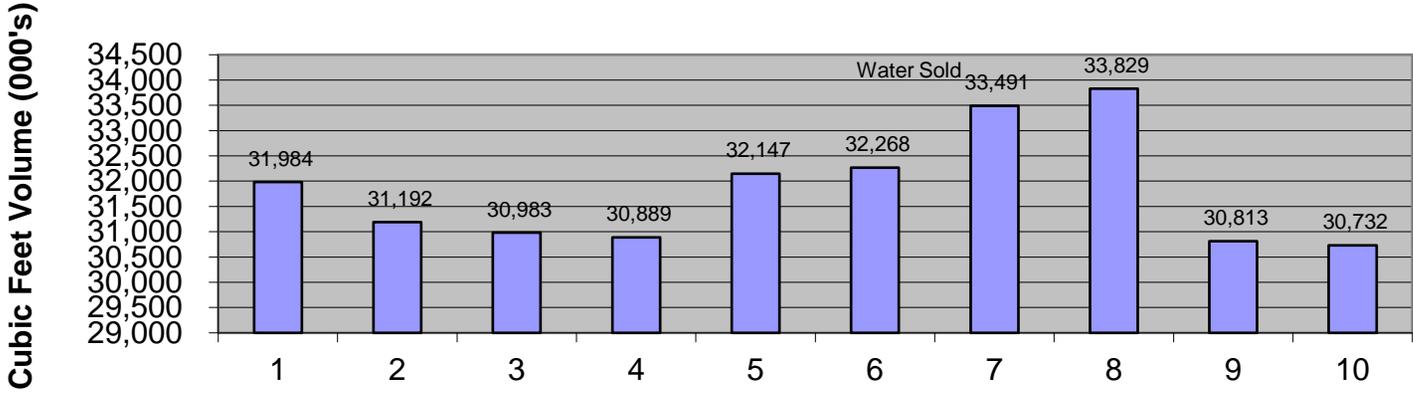
Town of Bar Harbor
2019 Water Budget

Volume - 12 Month Roll Forward Volume Numbers
Cubic Feet (000's)

6 Month Increments

	Dec-13 PUC Yr 1	Jun-14 FY 2	Dec-14 PUC Yr 3	Jun-15 FY 4	Dec-15 PUC Yr 5	Jun-16 FY 6	Dec-16 PUC Yr 7	Jun-17 FY 8	Dec-17 PUC Yr 9	Jun-18 FY 10
Billed Consumption	31,984	31,192	30,983	30,889	32,147	32,268	33,491	33,829	30,813	30,732
6 Month % Changes		-2%	-1%	0%	4%	0%	3.8%	1.0%	-9%	0%
YTD -(4.5) year % change										-4%
.5% average decrease in annual consumption										
% Billed vs. Produced	69%		67%		70%		68%			
Production Water	46,350		45,959		46,267		49,628		45,918	
YTD 4 Year % change									-0.9%	

Annual Revenue Water - Volume Trends (6 Mo. Intervals)



Town of Bar Harbor
2019 Water Budget

Capital Investment (CIP) Since Purchase of water Company

Company purchased Oct 2001

	6/30/2017 (15.75 yrs)	6/30/2018 (est)	16.75 yrs Totals	
Gross Capital Investment:	\$ 7,306,999	\$ 1,200,000	\$ 8,506,999	
Paid By:				
Bonding & Constr. Contributions	\$ 5,278,559	\$1,100,000	\$ 6,378,559	75%
Internally Generated Cash Used	\$ 2,028,440	\$ 100,000	\$ 2,128,440	25%

Recap of Source & Use of Cash Generated (after operating expenses & debt service)
(16.75 years activity)

Source:

From Sale of Properties: (Main St. & edgewood St.)	\$ 717,291	
From Normal Operations (Rates)	\$ 2,408,526	<i>(\$143,000 per year)</i>
Net Cash Generated	\$ 3,125,817	

Used For:

Capital	\$ 2,128,440
Paying off the Underfunded Pension Plan	\$ 247,773
For Painting Jackson Lab Tank	\$ 258,208
Net Cash Used	\$ 2,634,421

Estimated Net Working Capital Increase - 16.75 years	\$ 491,396	
-increase in reserves	\$ 33,282	\$ 524,678
Est. Cash @ 6/30/18		\$ 550,000

FY 2019 Water Budget

5 Year Capital Improvement Program

Year By Year Overview

Acct. No.	Account Description	Age	Year One	Year Two	Year Three	Year Four	Year Five	Total
			FY19	FY20	FY21	FY22	FY23	Five Year
			Funding/Spending	Funding/Spending	Funding/Spending	Funding/Spending	Funding/Spending	Spending
Vehicles								
6932	94 Backhoe/Loader	1994						-
6932	GMC Sierra-2500	2012			37,000			37,000
6932	GMC Sierra Util Pickup-2500	2015					50,000	50,000
6932	GMC Sierra Supt Pickup-2500	2011		37,000				37,000
6932	GMC Sierra Pickup-2500	2016						-
Facilities								
6900	Update Master Plan		15,500					15,500
6916	Standpipe Coating-1936 Steel Tank				-	-	-	-
6916	Demo Dreamwood Hill Tank		50,000					50,000
6916	Pumphouse Lot-Paving		15,000					15,000
Equipment								
6914	Pipe Fusion Machine (Crissy)	new		-				-
6906	LeRoi Portable Air Compressor	1996					25,000	25,000
6912	New CO2 Flo Meter	new	5,500					5,500
Mains (Rep = replacement)								
6922	Rep Atlantic Ave - 6" CI -1927- 510'	Work Cap					-	-
6922	Rep Des Isle Ave - 2" galv -1937 - 495'	New Bond					-	-
6922	Rep Hancock St. - 6" - 1898 - 1800'	New Bond						-
6922	Rep Shannon Road - 1500' -12" from 10"	Old Bond		250,000	-			250,000
6922	Rep Rodick St. (West to Cottage)-470'	Work Cap						-
6922	Rep Derby Lane - 430'	New Bond						-
6922	Rep Livingston Road - 6" - 1912	New Bond						-
6922	Rep Lower Main St. - 2050'	New Bond						-
6922	Rep Cottage St. - 400'	New Bond						-
6922	Rep Glen Mary Road - 1350'	New Bond	-	230,000				230,000
6922	Rep Holland Ave - 1450'	New Bond	-	190,000				190,000
	Unidentified Mains	Work Cap	80,000		120,000	150,000	120,000	470,000
								-
	<i>Mains - subtotal</i>		<i>80,000</i>	<i>670,000</i>	<i>120,000</i>	<i>150,000</i>	<i>120,000</i>	<i>1,140,000</i>
6918	Hydrants -from road construction		10,000	10,000	10,000	10,000	10,000	50,000
6928	Services - Rebuild from road const		10,000	10,000	10,000	10,000	10,000	50,000
6950	CIP Reserve -Unallocated		20,000	-	23,000	30,000	10,000	83,000
								-
Totals			206,000	727,000	200,000	200,000	225,000	1,558,000

Funded From:	Operations/Fund Balance	206,000	227,000	200,000	200,000	225,000	1,058,000
	20 Year Bonds-new bonds		500,000	-	-	-	500,000
		206,000	727,000	200,000	200,000	225,000	1,558,000

20 Yr Bonding- added annual debt service on \$500,000 (yr 2)
 @3.75% = \$36,000 per year or 2% est. rate impact on users

2016 Annual Drinking Water Quality Report

Town of Bar Harbor Water Division

Bar Harbor, Maine
PWSID ME0090120

We're 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 Jeff Van Trump at telephone number 207-288-3555, fax number 207-288-2273 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 1st to December 31st, 2016.

In 2014, 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): herbicides, carbamate pesticides, toxaphene/chlordane/PCB 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.

Bar Harbor Water Division had no violations in 2016

TEST RESULTS						
Unless otherwise noted, testing was done in 2016.						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
Total Coliform Bacteria	N	0 positive	Highest monthly # of positive samples	0 positive	1 pos/mo or 5%	Naturally present in the environment.
Turbidity (2016)	N	0.91	ntu	n/a	5	Soil runoff.
Inorganic Contaminants						
Barium (5/9/16)	N	0.002	ppm	2	2	Discharge of drilling wastes. Discharge from metal refineries. Erosion of natural deposits.
Copper* (1/1/14-12/31/14)	N	0.075	ppm	1.3	AL=1.3	Corrosion of household plumbing systems.
Fluoride (6/27/16)	N	1	ppm	4	4	Erosion of natural deposits. Water additive that promotes strong teeth. Discharge from fertilizer and aluminum factories.
Lead* (1/1/14-12/31/14)	N	4	ppb	0	AL=15	Corrosion of household plumbing systems.
* = Reported results are the 90 th percentile value (the value that 90% of all samples are less than).						
Disinfection By-Products – Jackson Lab						
HAA5 [Total Haloacetic Acids]	N	LRAA = 28 <i>(18.4-32)</i>	ppb	0	60	By-product of drinking water chlorination.
TTHM [Total Trihalomethanes]	N	LRAA = 37 <i>(26-40.2)</i>	ppb	0	80	By-product of drinking water chlorination.
Disinfection By-Products – Paradis True Value						
HAA5 [Total Haloacetic Acids]	N	LRAA = 27 <i>(16.6-30)</i>	ppb	0	60	By-product of drinking water chlorination.
TTHM [Total Trihalomethanes]	N	LRAA = 37 <i>(25.1-39.1)</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.
- Treatment Technique (TT)** - A required process intended to reduce the level of a contaminant in drinking water (e.g. treatment technique for turbidity)
- Variations, 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 ($\mu\text{g/L}$)

pCi/L = picocuries per liter (a measure of radioactivity)

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.

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.

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 **1.77 ppm**, with a range of 0.70 ppm to 3.70 ppm.

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).

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.

Budget – FY2019
Water Operating Data
For the Calendar Year Ended December 31, 2017

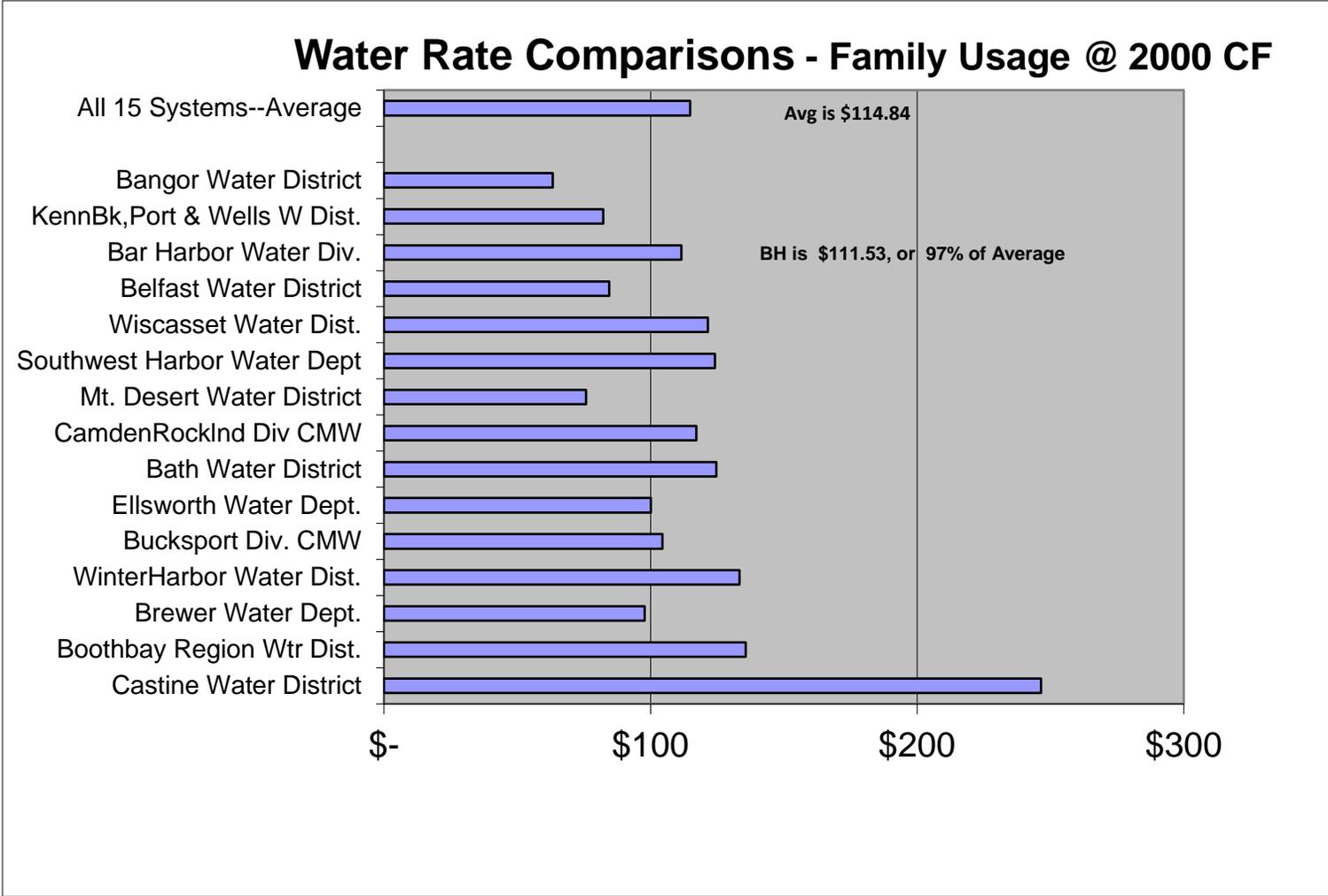
Water Division

<u>Largest Water Customers</u>	<u>Type of Use</u>	<u>CY2017 Revenues</u>	<u>% of Total</u>
Town of Bar Harbor	Parks, Bldgs, Schools & Hydrants	\$646,671	30.4%
Jackson Laboratory	Genetic Research & Mice Prod	200,770	9.4%
Witham Family LTD Part	Hotels (7)	87,204	4.1%
College of the Atlantic	College	29,348	1.4%
Kebo Valley Club	Golf Course	23,981	1.1%
Golden Anchor, LC	Hotel	23,051	1.1%
Lafayette Bar Harbor, LLC	Hotel	22,775	1.1%
Mount Desert Hospital	Hospital	19,539	0.9%
Bar Harbor Housing Authority	Low Income/Elderly Housing	16,328	0.8%
WS Atlantic LLC	Hotel	14,437	<u>0.7%</u>
			51.0%

<u>Number of Water System Customers</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
Residential	1,247	1,241	1,250	1,248	1,253
Commercial	490	491	515	516	516
Industrial (Jax Lab)	43	43	47	47	43
Governmental	52	51	56	57	60
Total	1832	1826	1,868	1,868	1,872

<u>Water Sales (per 1,000 gallons)</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
Residential	65,318	59,766	55,761	58,242	55,574
Commercial	103,634	107,376	111,619	121,831	107,157
Industrial (Jax Lab)	60,116	56,251	60,628	57,027	54,702
Public Authorities	10,170	5,357	12,450	13,419	13,050
Total Water Sales	239,238	228,750	240,458	250,519	230,483

<u>Water Sales (Revenue)</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
Residential	\$484,620	\$482,859	\$469,232	\$565,386	\$553,026
Commercial	494,752	526,799	500,570	656,301	609,028
Industrial (Jax Lab)	138,761	136,958	139,336	156,378	159,184
Public Authorities	56,710	51,637	59,099	71,267	72,899
Public Fire Protection	480,468	480,468	480,468	585,604	585,604
Private Fire Protection	106,563	107,952	109,711	126,445	129,278
Total Water Sales	\$1,761,874	\$1,786,673	\$1,758,416	\$2,161,381	\$2,109,019



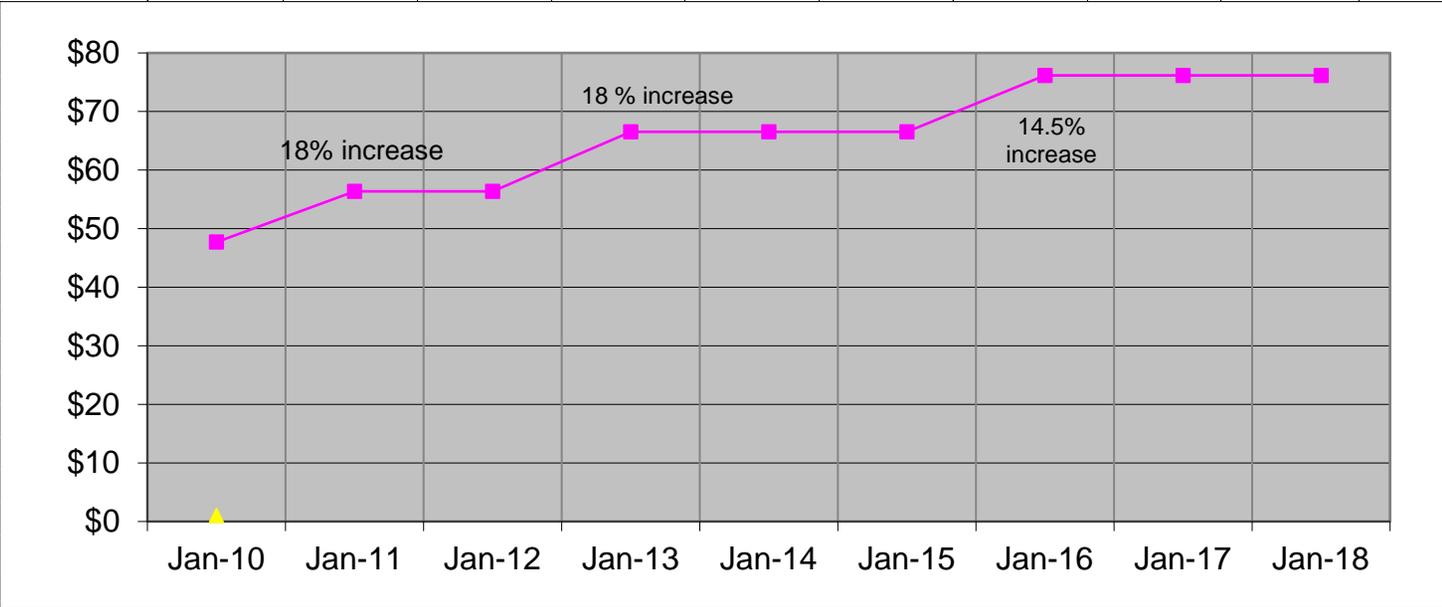
Water Rate Comparisons

(USDA std)

<i>Utility Name</i>	<i>Qtr Minimum 1200 CuFt</i>	<i>Qtr - Family 2000 CuFt</i>	<i>Rates Effective</i>	
Unfiltered Systems:				
Brewer Water Dept.	\$ 72.33	\$ 97.77	2008	Will refile by 2019-10%
Mt. Desert Water District	\$ -	\$ 75.80	2003	
ME Water Co,-Camden	\$ -	\$ 117.16	2014	
Bar Harbor Water Div.	\$ 76.17	\$ 111.53	2016	
Bangor Water District		\$ 63.29	2015	Will refile by 2019-9%
Average Billing		\$ 93.11		
BH Rate as a % of Avg. Rate		120%		
Filtered Systems:				
Castine Water District	\$ -	\$ 246.40	2011	
Boothbay Region Wtr Dist.	\$ -	\$ 135.65	2014	Will refile by 2019-25%
WinterHarbor Water Dist.	\$ -	\$ 133.33	2012	
ME Water Co-Bucksport	\$ -	\$ 104.45	2013	
Ellsworth Water Dept.	\$ -	\$ 100.10	2008	Supported partially by taxes
Bath Water District	\$ -	\$ 124.69	2015	
Southwest Harbor Water Dept	\$ -	\$ 124.12	2014	
Wiscasset Water Dist.	\$ -	\$ 121.52	2014	
Belfast Water District	\$ -	\$ 84.48	2015	
KennBk,Port & Wells W Dist.	\$ -	\$ 82.29	2015	
Average Billing	\$ -	\$ 125.70		
BH Rate as a % of Avg. Rate		89%		
All Systems-Average		\$ 114.84		
BH Rate as a % of Avg. Rate		97%		

Town Of Bar Harbor
2019 Water Budget

History of Quarterly Minimum Water Charges									
Rate Increases by Town (on residential users)		18%		18%			14.5%		
Effective Dates	1/1/10	1/1/11	1/1/12	1/1/13	1/1/14	1/1/15	1/1/16	1/1/17	1/1/18
		<i>Water Mains</i>		<i>Duckbrook Plnt</i>		<i>Rte #3 project</i>			
Water Minimum Charge	\$ 47.70	\$ 56.39	\$ 56.39	\$ 66.55	\$ 66.55	\$ 66.55	\$ 76.17	\$ 76.17	\$ 76.17
Minimum Allowance	1200	1200	1200	1200	1200	1200	1200	1200	1200
<i>an average of 7.5% increase per year over the last eight 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

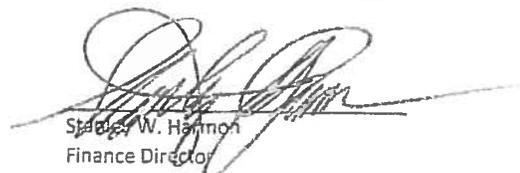
SIZE OF METER	Quarterly		Monthly	
	Allowance	Charge	Allowance	Charge
5/8"	1,200	76.17	400	25.39
3/4"	1,800	102.69	600	34.23
1"	3,000	155.73	1,000	51.91
1-1/2"	6,000	288.33	2,000	96.11
2"	9,600	447.45	3,200	149.15
3"	18,000	677.72	6,000	225.91
4"	30,000	926.13	10,000	308.71
6"	60,000	1,547.13	20,000	515.71

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

<u>SIZE OF METER</u>	<u>Seasonal</u>	
	<u>Allowance</u>	<u>Charge</u>
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.

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.

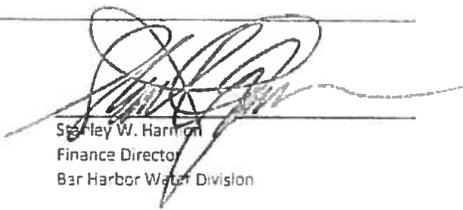
\$ 170

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

Bond Issue B

UNDERGROUND WATER TANK PURCHASE

Original Principal = \$750,000 Lender: Maine Bond Bank/State Revolving Fund - DHS
 Issued February 15, 2002 Paying agent fee: None
 Effective Interest Rate = 2.673% Cannot be refinanced.
 Payment Dates: April 1 (interest only) October 1 (principal and interest)
 Although these are general obligation bonds, all payments will be made from Water Fund revenues.

FY	Date	Effective Intrest.Rate	Principal Payment	Interest Payment	Payment Total	Water Fund FY Total
19	10/1/18	2.67%	43,587.52	4,189.72	47,777.24	
	4/1/19	2.67%		1,527.50	1,527.50	49,304.74
20	10/1/19	2.67%	44,754.80	3,765.24	48,520.04	
	4/1/20	2.67%		1,031.73	1,031.73	49,551.77
21	10/1/20	2.67%	45,953.33	3,329.40	49,282.73	
	4/1/21	2.67%		522.68	522.68	49,805.41
22	10/1/21	2.67%	47,184.05	2,881.88	50,065.93	50,065.93
Totals			181,479.70	17,248.15	198,727.85	198,727.85

Bond Issue F

PUBLIC WORKS PROJECTS: FY10

Original Principal = \$4,300,000 * Lender: Hutchinson, Shockey, Erly & Co.
 *Original Authorization = \$5,140,947, but reduced when CSO postponed.
 Issued: 5/1/10 Paying Agent: Bank of New York Mellon
 Interest Rate = 2.0% - 4.0% (Avg.-3.42%) Agent Fee: None
 Payment Split: CIP Fund = 86% Water Fund = 14% Refinancing: Only after February 2021
 Payment Dates: May 1 (principal and interest) & November 1 (interest only)

*** WATER FUND SHARE ***

FY	Date	Interest Rate	Principal Payment	Interest Payment	Payment Total	Water Fund FY Total	FY
19	11/1/18	3.00%	0.00	6,375.00	6,375.00		
	5/1/19	3.00%	30,000.00	6,375.00	36,375.00	42,750.00	19
20	11/1/19	3.00%	0.00	5,925.00	5,925.00		
	5/1/20	3.00%	30,000.00	5,925.00	35,925.00	41,850.00	20
21	11/1/20	3.00%	0.00	5,475.00	5,475.00		
	5/1/21	3.00%	30,000.00	5,475.00	35,475.00	40,950.00	21
22	11/1/21	3.00%	0.00	5,025.00	5,025.00		
	5/1/22	3.20%	30,000.00	5,025.00	35,025.00	40,050.00	22
23	11/1/22	3.20%	0.00	4,545.00	4,545.00		
	5/1/23	3.30%	30,000.00	4,545.00	34,545.00	39,090.00	23
24	11/1/23	3.30%	0.00	4,050.00	4,050.00		
	5/1/24	3.50%	30,000.00	4,050.00	34,050.00	38,100.00	24
25	11/1/24	3.50%	0.00	3,525.00	3,525.00		
	5/1/25	3.50%	30,000.00	3,525.00	33,525.00	37,050.00	25
26	11/1/25	3.50%	0.00	3,000.00	3,000.00		
	5/1/26	4.00%	30,000.00	3,000.00	33,000.00	36,000.00	26
27	11/1/26	4.00%	0.00	2,400.00	2,400.00		
	5/1/27	4.00%	30,000.00	2,400.00	32,400.00	34,800.00	27
28	11/1/27	4.00%	0.00	1,800.00	1,800.00		
	5/1/28	4.00%	30,000.00	1,800.00	31,800.00	33,600.00	28
29	11/1/28	4.00%	0.00	1,200.00	1,200.00		
	5/1/29	4.00%	30,000.00	1,200.00	31,200.00	32,400.00	29
30	11/1/29	4.00%	0.00	600.00	600.00		
	5/1/30	4.00%	30,000.00	600.00	30,600.00	31,200.00	30
Total Water Fund Share			360,000.00	87,840.00	447,840.00	447,840.00	12

Debt Service

A Responsibility of the Finance Department

Bond Issue H

WATER SYSTEM IMPROVEMENTS: 2011

Original Principal:	Lender:	Morgan Stanley & Co
1,224,000	Approved by Voters June 2011 for Duck Brook Pump Station Upgrade and Watermain Replacement	
2,515,000	Approved by Council to Refinance 2001 Bond issued for purchase of Water Company	
<u>3,739,000</u>	Total	

Date of Issue: 9/15/11

Paying agent: Bank of New York/ Mellon Trust

Interest Rate = 2.0% - 3.50% (Avg. - 2.29%)

Refinance: After Dec. 2021

Payment Dates: December 1 (principal and interest) & June 1 (interest only)

FY	Date	Interest Rate	Principal Payment	Interest Payment	Payment Total	Fiscal Year Total
19	12/01/18	2.00%	286,247.00	25,629.48	311,876.48	
	06/01/19			22,767.01	22,767.01	334,643.49
20	12/01/19	2.00%	293,944.00	22,767.01	316,711.01	
	06/01/20			19,827.57	19,827.57	336,538.58
21	12/01/20	2.50%	306,642.00	19,827.57	326,469.57	
	06/01/21			15,994.54	15,994.54	342,464.11
22	12/01/21	3.00%	311,642.00	15,994.54	327,636.54	
	06/01/22			11,319.91	11,319.91	338,956.45
23	12/01/22	3.00%	59,339.00	11,319.91	70,658.91	
	06/01/23			10,429.83	10,429.83	81,088.74
24	12/01/23	3.00%	62,036.00	10,429.83	72,465.83	
	06/01/24			9,499.29	9,499.29	81,965.12
25	12/01/24	3.00%	64,733.00	9,499.29	74,232.29	
	06/01/25			8,528.29	8,528.29	82,760.58
26	12/01/25	3.00%	67,431.00	8,528.29	75,959.29	
	06/01/26			7,516.83	7,516.83	83,476.12
27	12/01/26	3.00%	70,128.00	7,516.83	77,644.83	
	06/01/27			6,464.91	6,464.91	84,109.74
28	12/01/27	3.125%	72,825.00	6,464.91	79,289.91	
	06/01/28			5,327.02	5,327.02	84,616.93
29	12/01/28	3.25%	75,522.00	5,327.02	80,849.02	
	06/01/29			4,099.78	4,099.78	84,948.80
30	12/01/29	3.25%	78,219.00	4,099.78	82,318.78	
	06/01/30			2,828.72	2,828.72	85,147.50
31	12/01/30	3.375%	80,917.00	2,828.72	83,745.72	
	06/01/31			1,463.25	1,463.25	85,208.97
32	12/01/31	3.50%	83,614.00	1,463.25	85,077.25	
	06/01/32					85,077.25
Totals			1,913,239.00	277,763.38	2,191,002.38	2,191,002.38

~ ~ Debt Service Continued on Next Page ~ ~

Debt Service

A Responsibility of the Finance Department

Bond Issue I

WATER SYSTEM IMPROVEMENTS: 2012 - SRF

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

Date of Issue: 10/1/2012

Average Interest Rate = 1.5%

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

Lender: Maine Municipal Bond Bank

Agent fee: None

<i>Fiscal Year</i>	<i>Date</i>	<i>Principal Payment</i>	<i>Interest Payment</i>	<i>Payment Total</i>	<i>Fiscal Year Total</i>
19	10/01/18	127,108.00	17,097.17	144,205.17	
	04/01/19	0.00	10,074.46	10,074.46	154,279.63
20	10/01/19	128,379.00	16,493.41	144,872.41	
	04/01/20	0.00	9,400.46	9,400.46	154,272.87
21	10/01/20	129,663.00	15,883.61	145,546.61	
	04/01/21	0.00	8,719.73	8,719.73	154,266.34
22	10/01/21	130,960.00	15,267.73	146,227.73	
	04/01/22	0.00	8,032.19	8,032.19	154,259.92
23	10/01/22	132,269.00	14,645.64	146,914.64	
	04/01/23	0.00	7,337.77	7,337.77	154,252.41
24	10/01/23	133,592.00	14,017.37	147,609.37	
	04/01/24	0.00	6,636.41	6,636.41	154,245.78
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	154,180.47
Totals		2,046,046.00	267,417.73	2,313,463.73	2,313,463.73

~ ~ Debt Service Continued on Next Page ~ ~

Debt Service

A Responsibility of the Finance Department

Bond Issue L

ROUTE #3 WATER MAINS: FY16

Authorized by Town Meeting Vote @ 6/2/2015
 Repaid by Water Rates

Principal = \$ 1,700,000
 Interest Rate = 3.30% Avg.
 Term in Years = 20

Lender: Roosevelt & Cross, Inc. & Assoc.
 TIC: 2.49% after bond premium
 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>	
19	10/15/18	85,000.00	26,137.50	111,137.50		4.0%
	04/15/19		24,437.50	24,437.50	135,575.00	
20	10/15/19	85,000.00	24,437.50	109,437.50		3.0%
	04/15/20		23,162.50	23,162.50	132,600.00	
21	10/15/20	85,000.00	23,162.50	108,162.50		3.0%
	04/15/21		21,887.50	21,887.50	130,050.00	
22	10/15/21	85,000.00	21,887.50	106,887.50		3.0%
	04/15/22		20,612.50	20,612.50	127,500.00	
23	10/15/22	85,000.00	20,612.50	105,612.50		4.0%
	04/15/23		18,912.50	18,912.50	124,525.00	
24	10/15/23	85,000.00	18,912.50	103,912.50		4.0%
	04/15/24		17,212.50	17,212.50	121,125.00	
25	10/15/24	85,000.00	17,212.50	102,212.50		4.0%
	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		5.0%
	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		5.0%
	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		2.5%
	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		3.0%
	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		3.0%
	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		3.0%
	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		3.0%
	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		3.0%
	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		3.0%
	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		3.0%
	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		3.0%
					86,275.00	
		1,530,000.00	450,712.50	1,980,712.50	1,980,712.50	

Summary of Bond Issue L:

Water Fund Share 1,530,000