THE COMMONWEALTH OF MASSACHUSETTS

RETURN

OF

AQUARION WATER COMPANY OF MASSACHUSETTS

TO THE

DEPARTMENT OF PUBLIC UTILITIES

OF MASSACHUSETTS

For the Year Ended December 31, 2020

Name of Officer to whom correspondence should be addressed regarding this report,

Debra Kirven

Official Title

Controller

Office Address: **600 Lindley Street**

Bridgeport, CT 06606

General Information

Principal and Salaried Officers*

Titles	Names	Addresses	Annual Salaries
President and COO	Donald J. Morrissey	Aquarion Water Company 835 Main St., Bridgeport, CT 06604	$352,762.50 * $27,492.06 charged to MA.
Vice President Operations and utility Innovation	John P. Walsh	Aquarion Water Company of Massachusetts, Inc. 835 Main St., Bridgeport, CT 06604	$238,649.46 * $27,360.82 charged to MA.
Vice President Operations and utility Innovation	Lucia A Teixeira	Aquarion Water Company 835 Main St., Bridgeport, CT 06604	$221,166.75
Vice President Supply Operations and Sustainability	Robert J. Ulrich	835 Main St., Bridgeport, CT 06604	$208,670.76
Vice President Engineering and Real Estate	Daniel R. Lawrence	835 Main St., Bridgeport, CT 06604	$208,550.01
Chief Executive Officer	Werner J. Schweiger	107 Selden St. Berlin, CT 06037	$765,885.00
Senior Vice President Finance and Regulatory and Treasurer	John M. Moreira	247 Station Dr., Westwood MA 02090	$383,678.00
Secretary and Clerk	Richard J. Morrison	800 Boylston St., 17th Fl. Boston MA 02199	$313,194.00

Names		Addresses	Fees Paid During Year
Donald J. Morrissey		Aquarion Water Company 835 Main St., Bridgeport, CT 06604	$0
John P. Walsh		Aquarion Water Company 835 Main St., Bridgeport, CT 06604	$0

*By General Laws, Chapter 164, Section 83, the Return must contain a "List of names of all their salaried officers and the amount of the principal officers and of the directors."

Annual Report of Aquarion Water Company of Massachusetts **Year ended December 31, 2020**

GENERAL INFORMATION

1. Full corporate title company: Aquarion Water Company of Massachusetts — Telephone No. (781) 740-6693
2. Location of principal business office: 900 Main Street Hingham, MA 02043
3. Date of organization: August 9, 1879 — 4. Date of incorporation: March 21, 1879
5. Whether incorporated under general or special law: Special
6. If under special law, give chapter and year of act: Chapter 139 Act of 1879
7. Give chapter and year of any subsequent special legislation affecting the Company: Chapters 59, 88, 54, 168, 482 of Acts 1881, 1886, 1910, 1914, and 1924 respectively
8. Territory covered by charter rights: Towns of Hingham, Hull, Millbury, Oxford, and parts of Cohasset and Norwell
9. Capital stock authorized by charter, $5,000,000
10. Capital stock issued prior to August 1, 1914, $300,000
11. Capital stock issued with approval of Board of Gas and Electric Light Commissioners or the Department of Public Utilities since August 1, 1914

37,571 shares of par value of $100.00 each	$3,757,100.00

12. If additional stock has been issued during the last fiscal period, give the date, amount and price thereof, the date or dates on on which the same was paid in, and the number of shares so sold and the amounts realized: _____D.P.U. No.

0

NONE

13. Management Fees and Expenses during the Year

management or supervision of its affairs such as accounting, financing, engineering, construction, purchasing, operation, etc. and show the total amount paid to each for the year.

Aquarion Company	$35,933
Aquarion Water Company of Connecticut	$1,069,919

14. Date when Company first began to distribute and sell water: July 3, 1880
15. Total number of stockholders: One
16. Number of stockholders resident in Massachusettes: NONE
17. Amount of stock held in Massachusettes, number of shares , amount N/A

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Annual Report of Aquarion Water Company of Massachusetts **Year ended December 31, 2020**

COMPARATIVE GENERAL BALANCE SHEET

The entries in this balance sheet should be consitent with those in the supporting schedules on the pages indicated.
All credit items hereunder should be in red ink

Line No.	Balance at Beginning of Year (a)	Assets (b)	Balance at close of Year (c)	Net Change During Year (d)
1		**INVESTMENTS**		
2	$ 84,271,890	101-113 Plant Investments (p202)	$ 35,856,752	$ (48,415,138)
3	$ 2,829,393	114-119 General Equipment (p202)	$ 634,565	$ (2,194,828)
4	$ 385,689	201 Unfinished Construction(p202)	$ 224,958	$ (160,731)
5	$ 1,401	202 Miscellaneous Physical Property (p203)	$ -	$ (1,401)
6	$ 87,773	203 Other Investments (p203)	$ 116,357	$ 28,584
7	**$ 87,576,146**	**Total Investments**	**$ 36,832,632**	**$ (50,743,514)**
8		**CURRENT ASSETS**		
9	$ 180	204 Cash	$ 180	$ -
10	$ -	205 Special Deposits	$ -	$ -
11	$ -	206 Notes Receivable	$ -	$ -
12	$ 1,034,522	207 Accounts Receivable	$ 4,786	$ (1,029,736)
13	$ -	208 Interest and Dividends Receivable	$ -	$ -
14	$ 394,283	209 Materials and Supplies	$ 114,064	$ (280,219)
15	$ 2,518,584	210 Other Current Assets	$ 1,175,132	$ (1,343,452)
16	**$ 3,947,569**	**Total Current Assets**	**$ 1,294,162**	**$ (2,653,407)**
17		**RESERVE FUNDS**		
18	$ -	211 Sinking Funds	$ -	$ -
19	$ -	212 Insurance and Other Funds	$ -	$ -
20	**$ -**	**Total Reserve Funds**	**$ -**	**$ -**
21		**PREPAID ACCOUNTS**		
22	$ 14,110	213 Prepaid Insurance	$ 20,686	$ 6,576
23	$ -	214 Prepaid Interest	$ -	$ -
24	$ 99,056	215 Other Prepayments	$ 44,081	$ (54,975)
25	**$ 113,166**	**Total Prepaid Accounts**	**$ 64,767**	**$ (48,399)**
26		**UNADJUSTED DEBITS**		
27	$ 58,294	216 Unamortized Dept Discount Exp (p203)	$ 7,712	$ (50,582)
28	$ -	217 Property Abandoned	$ -	$ -
29	$ 7,920,096	218 Other Unadjusted Debits (p203)	$ 2,584,235	$ (5,335,861)
30	**$ 7,978,390**	**Total Unadjusted Debits**	**$ 2,591,946**	**$ (5,386,444)**
31				
32	**$ 99,615,271**	**GRAND TOTAL**	**$ 40,783,508**	**$ (58,831,763)**

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2020**

COMPARATIVE GENERAL BALANCE SHEET

The entries in this balance sheet should be consitent with those in the supporting schedules on the pages indicated. All debit items hereunder should be in red ink.

Line No.	Balance at Beginning of Year (a)	Liabilities (b)	Balance at close of Year (c)	Net Change During Year (d)
1		**CAPITAL STOCK**		
2				
3	$ 3,757,100	301 Common Stock (p. 204)	$ 3,757,100	$ -
4	$ -	302 Preferred Stock (p. 204)	$ -	$ -
5	$ -	303 Employees' Stock (p. 204)	$ -	$ -
6	**$ 3,757,100**	**Total Capital Stock**	**$ 3,757,100**	**$ -**
7				
8	$ 1,135,450	304 Premium on Capital Stock	$ 1,135,450	$ -
9				
10		**BONDS, COUPON AND LONG TERM NOTES**		
11				
12	$ 18,245,000	305 Bonds (p. 204)	$ 645,000	$ (17,600,000)
13		306 Coupon and Long Term Notes (p. 204)	$ -	$ -
14	**$ 18,245,000**	**Total Bonds, Coupon and Long Term Notes**	**$ 645,000**	**$ (17,600,000)**
15				
16		**CURRENT LIABILITIES**		
17	$ 9,243,633	307 Notes Payable (p. 205)	$ 6,510,301	$ (2,733,332)
18	$ 694,824	308 Accounts Payable	$ 1,107,719	$ 412,895
19	$ 1,557	309 Consumers' Deposits	$ 507	$ (1,050)
20		310 Matured Interest Unpaid	$ -	$ -
21	$ -	311 Dividends Declared		$ -
22	$ -	312 Other Current Liabilities	$ -	$ -
23	**$ 9,940,014**	**Total Current Liabilities**	**$ 7,618,528**	**$ (2,321,486)**
24				
25		**ACCRUED LIABILITIES**		
26	$ -	313 Tax Liability	$ -	$ -
27	$ 153,663	314 Interest Accrued	$ -	$ (153,663)
28	$ 117,115	315 Other Accrued Liabilities	$ 126,658	$ 9,543
29	**$ 270,778**	**Total Accrued Liabilities**	**$ 126,658**	**$ (144,120)**
30				
31		**UNADJUSTED CREDITS**		
32	$ 21,171	316 Premium on Bonds (p. 205)	$ 15,387	$ (5,784)
33	$ 8,177,527	317 Other Unadjusted Credits (p. 205)	$ 4,303,965	$ (3,873,562)
34				
35	**$ 8,198,698**	**Total Unadjusted Credits**	**$ 4,319,352**	**$ (3,879,346)**
36				
37		**RESERVES**		
38	$ -	318 Insurance and Casualty Reserve	$ -	$ -
39	$ 22,046,929	319 Depreciation Reserve (p. 206)	$ 10,107,746	$ (11,939,183)
40	$ 8,914,051	320 Other Reserves	$ 2,310,842	$ (6,603,209)
41	**$ 30,960,980**	**Total Reserves**	**$ 12,418,588**	**$ (18,542,392)**
43		**APPROPRIATED SURPLUS**		
44	$ -	321 Sinking Fund Reserves	$ -	$ -
45	$ 12,047,196	323 Contributions for Extensions	$ 6,411,987	$ (5,635,209)
46	$ 3,844,050	324 Surplus Invested in Plant	$ 3,844,050	$ -
47	**$ 15,891,246**	**Total Appropriated Surplus**	**$ 10,256,037**	**$ (5,635,209)**
48				
49	$ 11,216,006	400 Profit and Loss Balance (p. 301) +	$ 506,794	$ (10,709,212)
50	**$ 27,107,253**	**Total Corporate Surplus +**	**$ 10,762,831**	**$ (16,344,422)**
51	**$ 99,615,273**	**GRAND TOTAL**	**$ 40,783,508**	**$ (58,831,765)**

PLANT INVESTMENT ACCOUNTS

Show for all items of plant, classified in accordance with the prescribed Uniform System of Accounts, the particulars called for by the column headings Credits in column (d) for plant retired during the year should be fully explained in a footnote. Col. (e). "Adjustments made during the year, "should be interpreted to mean modifications of entries made in prior accounting periods. When any adjusting entry is made in Col. (e), the credit to the account should be shown in red; in case the amount is transferred to some other account in the same schedule, the debit amount should appear in the same column in black.

When the whole or any part of "Unfinished Construction" is transferred to the Plant accounts, the amounts transferred should appear in Col. (e) in red and the amounts debited should appear in Col. (c) in black.

Line No.	NAME OF ACCOUNT (a)	Balance at Beginning of Year (b)	Additions During Year (c)	Plant Retired During Year (d)	Adjustments During Year (e)	Balance at Close of Year (f)
1	**INTANGIBLE PROPERTY**					
2	Organization	82,595	1,401	(83,996)	-	-
3	Misc. Intangible Invest.	-	-	-	-	-
4	**Total Intangible Property**	**82,595**	**1,401**	**(83,996)**	**-**	**-**
5	**TANGIBLE PROPERTY**					
6	Land	243,845	-	(153,357)	-	90,488
7	Structures	17,858,421	742,942	(9,195,098)	-	9,406,265
8	Pumping Plant Equipment	2,577,318	49,104	(2,063,883)	-	562,539
9	Misc. Pumping Plant Equipment	117,646	-	(41,681)	-	75,965
10	Purification System	4,983,330	53,384	(3,005,384)	-	2,031,330
11	Trans'n and Dist'n Mains	45,200,121	1,428,787	(27,754,059)	-	18,874,849
12	Services	8,250,642	152,277	(5,680,639)	-	2,722,280
13	Consumers' Meters	2,440,472	82,617	(1,642,468)	-	880,622
14	Consumers' Meter Installation	672,540	-	(390,359)	-	282,181
15	Hydrants	732,596	8,305	(223,226)	-	517,675
16	Fire Cist'ns, Basins, Fount'ns				-	-
17	Water Rights				-	-
18	Other Trans'n & Dist'n Plant	1,112,364	41,635	(741,440)	-	412,559
19	Miscellaneous Expenditures				-	-
20	**Total Plant Investment**	**84,189,295**	**2,559,051**	**(50,891,594)**	**-**	**35,856,752**
21	**GENERAL EQUIPMENT**					
22	Office Equipment	1,242,244	15,324	(1,012,792)	-	244,775
23	Shop Equipment	319,337	-	(268,555)	-	50,782
24	Stores Equipment	133,892	3,147	(73,867)	-	63,172
25	Transportation Equipment	796,970	-	(585,060)	-	211,910
26	Laboratory Equipment	34,674	-	(32,724)	-	1,950
27	Miscellaneous Equipment	302,276	-	(240,301)	-	61,976
28	**Total General Equipment**	**2,829,393**	**18,470**	**(2,213,299)**	**-**	**634,565**
29	Unfinished Construction	385,689	(160,731)	-	-	224,958
30	**Total Cost of All Property**	**87,486,972**	**2,418,191**	**(53,188,889)**	**-**	**36,716,275**
31	Assessed Value of Real Estate	18,102,265	742,942	(9,348,455)	-	9,496,752
32	Assessed Value of Other Property	68,916,423	1,834,580	(43,756,438)	-	26,994,565
33	**Total Assessed Value**	**87,018,688**	**2,577,521**	**(53,104,893)**	**-**	**36,491,317**

MISCELLANEOUS PHYSICAL PROPERTY

Give particulars of all investments of the respondent in physical property not devoted to utility operation.

Line No.	DESCRIPTION AND LOCATION OF MISCELLANEOUS PHYSICAL PROPERTY HELD AT END OF YEAR (a)	Book Value at End of Year (b)	Revenue for the Year (c)	Expense for the Year (d)	Not Revenue for the Year (e)
1	Easement Right-of-Way	$1,401		$1,401	$0
2					
3					
4					
5	**Totals**	**$1,401**			**$0**

OTHER INVESTMENTS

Give particulars of investments in stocks, bonds, etc., held by the respondent at end of year.

(a)

6	Investment in CoBank, ACB	$87,773	$48,169	$19,584	$116,357
7					
8					
9					
				Total	**$116,357**

UNAMORTIZED DEBT DISCOUNT AND EXPENSE

Give an analysis of the respondent's accodiscount and (or) expense on bonds, coupon or short term notes. If the account represents only the expenseincurred in connection with the issue, the word "Discount" should be erased. Entries in Col (d) should be consistant with the returns made on page 301, Schedules of Income and Profit and Loss.

	NAME OF SECURITY (a)	Unextinguished Discount at Beginning of Year (b)	Discount on Bonds etc., Issued During Year (c)	Discount Written off During Year (d)	Unextinguished Discount at Close of Year (e)
10	General Mtg Bonds 7.71%	$ 11,585		$ 11,585	$ -
11	General Mtg Bonds 9.64%	$ 4,297		$ 4,297	$ -
12	MA Water Pollution Abatement Trust Loan - 0.0%	$ 10,697		$ 2,985	$ 7,712
13	CoBank, ACB Swap Variable Rate	$ 31,715	$ -	$ 31,715	$ -
14					
15	**TOTALS**	**$ 58,294**	**$ -**	**$ 50,582**	**$ 7,712**

OTHER UNADJUSTED DEBITS

Give an analysis of the abvove-entitled account as of close of year, showing in detail each item or subaccount amounting $500 or more. Items less than '$500 may be combined in a single entry "Minor Items _____ in number, each less than $500," giving the number of items thus combined.'

	DESCRIPTION AND CHARACTER OF UNADJUSTED DEBITS	Balance at Beginning of Year (b)	Amount Added During Year (c)	Amount Written off During Year (d)	Balance at Close of Year (e)
16	Deferred Taxes	$ 3,513,837	$ 487,919	$ 2,397,260	$ 1,604,496
17	Deferred Pension	$ 1,159,409	$ -	$ 825,984	$ 333,425
22	FAS 158 Deferred Debits	$ 2,320,982	$ 484,684	$ 2,270,617	$ 535,049
23	Deferred Well Maintenance	$ 42,786	$ 81,602	$ 92,311	$ 32,076
24	Deferred Rate Case	$ 307,300	$ 1,010	$ 229,122	$ 79,188
25	Deferred Tank Painting	$ 575,783	$ -	$ 575,783	$ -
26	Unrealized (gain) loss on swap	$ -	$ -	$ -	$ -
27					
28					
29					
30					
31					
32					
33					
34					
35	**TOTALS**	**$ 7,920,096**	**$ 1,055,216**	**$ 6,391,077**	**$ 2,584,235**

Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2020**

CAPITAL STOCK

Give particulars of the various issues of capital stock of the respondent, as called for in the following schedule. In stating the amount of Capital Stock authorized in Col. (d) show only the amount authorized by the regulatory body.

Line No.	Decription (a)			Number of Shares Authorized (b)	Par Value of One Share (c)	Amount of Capital Stock Authorized (d)		Amount Actually Out-standing at End of Year (e)	Total Premium At End of Year (f)
1	Capital Stock: Common			50,000	$ 100		$ 5,000,000	$ 3,757,100	$ 4,979,500
2	Preferred								
3	Employee								
4									
5		**Totals**					**$ 5,000,000**	**$ 3,757,100**	**$ 4,979,500**

BONDS, COUPONS, AND LONG TERM DEBT

Give particulars of various issues of bond, coupons, and long term notes as called for in the following schedule, giving the names of any underlying issues that may have been assumed by the respondent. The total of col. (h) should be consistant with return made on page 301, Income Schedule (line 20).

	(a)	Date of Issue (b)	Date of Maturity (c)	Par Value Authorized (d)	Par Value Actually Outstanding at End of Year (e)	INTEREST PROVISIONS Rate Per Cent (f)	Dates Due (g)	Interest Accrued During Year Charged to Income (h)	Interest Paid During Year (i)
6	Mortgage Bonds:								
7	General Mortgage	11/93	6/23	$ -	$ -	7.71%	Jun/Dec	$ 314,825	$ 314,825
8	General Mortgage	12/91	9/21	$ -	$ -	9.64%	Mar/Sep	$ 78,727	$ 78,727
9	MA Water Pollution Abatement Trust Loan	3/03	8/23	$ 645,000	$ 645,000	0.00%	-	$ -	$ -
10	General Mortgage - swap loan	11/11	11/21	$ -	$ -	4.11%	Feb/May/Aug/Nov	$ 178,737	$ 178,737
11	**Total Bonds**			**$ 645,000**	**$ 645,000**			**$ 572,289**	**$ 572,289**
12	Coupon and Long Term Notes:								
13									
14									
15									
16									
17	Total Coupon & Long Term Notes								
32		**Grand Total**					**Totals**	**$ 572,289**	**$ 572,289**

SUNDRY CURRENT LIABILITIES

NOTES PAYABLE

Line No.	Name of Creditor (a)	Date of Issue (b)	Date of Maturity (c)	How Secured (d)	Rate of Interst (e)	Amount (f)
1	Aquarion Company					$ 6,510,301
2						
3						
4						
5						
6						
7						
8					TOTAL	**$ 6,510,301**

PREMIUM ON BONDS

Give an analysis of the respondent's accounts covering premium on bonds or other evidences of indebtedness. Entries in Col. (d) should be consistent with the returns made on page 301. Schedule of Income and Profit and Loss

	NAME OF SECURITY (a)		Unextinguished Premium at Beginning of Year (b)	Premium on Bonds Issued During Year (c)	Premium Written Off During Year (d)	Unextinguished Premium at End of Year (e)
9	MWPAT Unamortized Premium		$ 21,171		$ 5,784	$ 15,387
10						
11						
12		**TOTALS**				**$ 15,387**

OTHER UNADJUSTED CREDITS

Give the names in Col. (a) and indicate the character, in Col. (b) of the several subaccounts which appear as "Other Unadjusted Credits." For items less than $1,000 a single entry may be made under the caption "Minor accounts..... in number, each less than $1,000," stating the number

	0 (a)	Character of Subaccount (b)	Amount (c)
13	Advances for Construction		$ 309,804
14	Deferred OPEB		$ (343,092)
15	Funded pension contribution		$ 2,354,066
16	Unrealized (gain) loss on swap		$ -
17	Tax benefit due ratepayer		$ 1,272,396
18	Deferred OPEB costs		$ 660,650
19	Other deferred credits		$ (823)
20	CIAC tax- gross up		$ 50,964
21			
22			
23		**Total**	**$ 4,303,965**

Annual Report of Aquarion Water Company of Massachusetts — **Year Ended December 31, 2020**

DEPRECIATION RESERVE

Line No.	(a)	Amount (b)
1	**Balance at beginning of year**	22,046,929
2	Credits to Depreciation Reserve during year:	
3	Account 610-10 Depreciation	1,768,743
4	Other Accounts (Specify):	
5	Asets Held for Sale - Hingham, Hull, Cohasset and North Cohasset	(822,656)
6		
7		-
8	**CHARGES DURING YEAR**	**946,087**
9	Net Charges for Plant Retired:	
10	Book Cost of Plant Retired	12,885,270
11	Cost of Removal	-
12	Salvage (credit in red)	-
13	**NET CHARGES DURING YEAR**	**12,885,270**
14	**Balance at end of year**	**10,107,746**

BASIS OF DEPRECIATION CHARGES

Give in detail the rules and rate by which the respondent determined the amount charged to operating expenses and other accounts, and credited to Depreciation Reserves. report also depreciation taken for the year for federal income tax purposes.

15		
16		
17		
18		
19		
20		

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2020**

INCOME STATEMENT FOR THE YEAR

Give the Income Account of the respondent for the year ended December 31, 2020 in accordance with the Uniform System of Accounts for Water Companies.

Line No.	Acc't No.	Item (a)	Amount (b)	Comparison with Previous Year. (c)
1		**OPERATING INCOME**		
2	500	Operating Revenues (p. 302)	$ 12,791,232	$ (4,615,790)
3	600	Operating Expenses (p. 303)	$ 8,687,571	$ (4,729,302)
4		**Net Operating Revenues**	**$ 4,103,661**	**$ 113,513**
5	550	Uncollectible Operating Revenues	$ 128,667	$ 110,702
6	551	Taxes (p. 303B)	$ 13,741,998	$ 14,120,673
7		**Net Operating Income**	**$ (9,767,004)**	**$ (14,117,862)**
8		**NON-OPERATING INCOME**		
9	560	Mdse. and Jobbing Revenue*	$ (2,805)	$ (36,051)
10	561	Rent from Appliances	$ -	$ -
11	562	Miscellaneous Rent Income	$ -	$ -
12	563	Interest and Dividend Income	$ -	$ -
13	564	MWPAT Loan - Net Subsidy	$ 49,785	$ 6,552
14	565	MWPAT Amortization of Debt Premium	$ 5,784	$ -
15	566	Miscellaneous Non-operating Income	$ 39,707,279	$ 39,591,735
16		**Total Non-operating Income**	**$ 39,760,043**	**$ 39,562,237**
17		**GROSS INCOME**	**$ 29,993,039**	**$ 25,444,375**
18		**DEDUCTIONS FROM GROSS INCOME**		
19	575	Miscellaneous Rents	$ -	$ -
20	576	Interest on Bonds and Coupon Notes	$ 640,090	$ (626,787)
21	577	Miscellaneous Interest Deductions	$ -	$ -
22	578	Amortization of Discount (p. 203)	$ 16,055	$ (9,336)
23	579	Miscellaneous Deductions from Income	$ 129,950	$ 108,239
24	2885	**Total Deductions from Gross Income**	**$ 786,096**	**$ (527,883)**
24		**Income Balance transferred to Profit and Loss**	**$ 29,206,943**	**$ 25,972,258**

PROFIT AND LOSS STATEMENT

Show hereunder the items of the Profit and Loss Account of the respondent, classified in accordance with the Uniform System of Accounts for Water Companies.

Line No.	Acc't No.	Item (a)	Debits (b)	Credits (c)
32		**CREDITS**		
27	401	Credit Balance at Beginning of Fiscal Period (p.201)		$ 11,216,006
28	402	Credit Balance transferred from Income Acct. (p.301)		$ -
29	403	Miscellaneous Credits, (transfer from paid-in-capital)		$ -
30		**DEBITS**		
31	411	Debit Balance at Beginning of Fiscal Period (p.201)		
32	412	Debit Balance transferred from Income Acct. (p.301)	$ (29,206,943)	
33	413	Accumulated other comprehensive gain on swap	$ -	$ 83,845
34	414	Dividend Appropriation of Surplus (p.302)	$ 40,000,000	
35	415	Appropriations of Surplus for Depreciation (p.204)		
	416	Dic'nt on Bonds Exting'd through Surplus (p.203)		
37	417	Other Deductions from Surplus for Depreciation (p.204)		
38	418	Appropriations of Surplus for Construction		
39		Balance carried Forward to Balance Sheet		$ (10,709,212)
		TOTALS		**$ 506,794**

(Note) Explain below amounts entered as Other Deductions from Surplus or Miscellaneous Credits:

*In case the Merchandising and Jobbing business shows a loss, the amount should appear in red.

OPERATING REVENUES

State the operating revenues of the respondent for the year ended December 31, 2020, classified in accordance with the Uniform System of Accounts.

Line No.	Acc't No.	CLASS OF WATER OPERATING REVENUE	Amount of Revenue for Year	Comparison with Previous Year
1		**REVENUES FROM SALE OF WATER**		
2	501	Metered Sales to General Consumers	$ 11,510,196	$ (4,089,871)
3	502	Flat-rate Sales to General Consumers	$ 500,411	$ (238,655)
4	503	Sales to Other Water Companies	$ -	$ -
5	504	Municipal Hydrants	$ 745,019	$ (260,743)
6	505	Miscellaneous Municipal Revenues	$ -	$ -
7		**Total Revenues from Water Operations**	**$ 12,755,626**	**$ (4,589,269)**
8		**MISCELLANEOUS REVENUES**		
9	506	Rent from Property used in Operation	$ -	$ -
10	507	Miscellaneous Operating Revenues	$ 35,606	$ (26,520)
11		**Total Revenues from Miscellaneous Operation**	**$ 35,606**	**$ (26,520)**
12		**Total Operating Revenues**	**$ 12,791,232**	**$ (4,615,790)**

DIVIDENDS DECLARED DURING THE YEAR

Give particulars of dividends on each class of stock during the year, and charged to Profit and Loss. This schedule shall include only dividends that have been declared by the Board of Directors during the fiscal year.

Line No.	NAME OF SECURITY ON WHICH DIVIDEND WAS DECLARED (a)	RATE PER CENT Regular (b)	RATE PER CENT Extra (c)	Amount of Capital Stock on which Dividend was Declared (d)	Amount of Dividend (e)	DATE Declared	DATE Payable
13	Common Stock				$ 40,000,000		
14							
27							
16							
17							
19							
20							
21							
22							
23							
24	**Totals**				$ 40,000,000		
####							

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Annual Report of Aquarion Water Company of Massachusetts — **Year ended December 31, 2020**

OPERATING EXPENSES

(For companies having average operating revenues of more than $15,000.)

State the operating expenses of the respondent for the year ended December 31, 2018 classifying them in accordance with the Uniform System of Accounts.

Line No.	Acc't No.	Item (a)	Amount (b)	Comparison with Previous Year. (c)
1		**SOURCE OF WATER SUPPLY EXPENSES**		
2	601-1	Maintenance of Water Supply Buildings and Fixtures	$ -	$ -
3	601-2	Maintenance of Surface Source of Supply Facilities	$ -	$ -
4	601-3	Maintenance of Ground Source of Water Supply	$ 297,175	$ (110,465)
5		**Total Source of Water Supply Expenses**	**$ 297,175**	**$ (110,465)**
6	602	**Water Purchased for Resale**	**$ 301,660**	**$ 271,143**
7		**PUMPING EXPENSES**		
8	603-1	Pumping Labor	$ 128,441	$ (56,447)
9	603-2	Boiler Fuel	$ -	$ -
10	603-3	Water for Steam	$ -	$ -
11	603-4	Electric Power Purchased	$ 560,088	$ (107,836)
12	603-5	Miscellaneous Pumping Station Supplies and Expenses	$ 72,919	$ (65,076)
13	604-1	Maintenance Power Pumping Buildings and Fixtures	$ 10,500	$ (2,720)
14	604-2	Maintenance of Pumping Equipment	$ 33,144	$ (30,671)
15	604-3	Maintenance of Miscellaneous Pumping Plant Equipment	$ -	$ -
16		**Total Pumping Expenses**	**$ 805,090**	**$ (262,750)**
17		**PURIFICATION EXPENSES**		
18	605-1	Purification Labor	$ 261,286	$ (176,126)
19	605-2	Purification Supplies and Expenses	$ 2,291,663	$ (1,331,784)
20	606-1	Maintenance of Purification Buildings and Fixtures	$ 9,631	$ (30,320)
21	606-2	Maintenance of Purification Equipment	$ 106,207	$ (136,533)
22		**Total Purification Expenses**	**$ 2,668,787**	**$ (1,674,764)**
23		**TRANSMISSION AND DISTRIBUTION EXPENSES**		
24	607	Inspecting Customers' Installation	$ 8,296	$ (26,284)
25	608	Miscellaneous Trans. and Dist, Supplies and Expenses	$ 518,203	$ (276,972)
26	609-1	Maintenance of Trans. and Dist. Buildings and Fixtures	$ -	$ (4,579)
27	609-2	Maintenance of Trans. and Dist. Mains	$ 323,908	$ (167,054)
28	609-3	Maintenance of Storage, Reservoirs, Tanks and Standpipes	$ 25,034	$ (32,688)
29	609-4	Maintenance of Services	$ 200,003	$ (44,161)
30	609-5	Maintenance of Meters	$ 84,632	$ (28,593)
31	609-6	Maintenance of Hydrants	$ 17,324	$ 7,856
32	609-7	Maintenance of Fountains and Troughs	$ -	$ -
33		**Total Trans. and Dist. Expenses**	**$ 1,177,400**	**$ (572,474)**
34		**GENERAL AND MISCELLANEOUS EXPENSES**		
35	610-1	Salaries of General Officers and Clerks	$ 519,097	$ 74,056
36	610-2	General Office Supplies and Expenses	$ 1,572,349	$ (710,384)
37	610-3	Law Expense - General	$ 7,582	$ (440,096)
38	610-4	Insurance	$ 469,113	$ (274,636)
39	610-5	Accidents and Damages	$ -	$ -
40	610-6	Store Expenses	$ -	$ -
41	610-7	Transportation Expenses	$ 8,507	$ (10,716)
	610-8	Inventory Adjustments	$ -	$ -
43	610-9	Maintenance of General Structures	$ -	$ -
44	610-10	Depreciation	$ 710,908	$ (214,472)
45	610-11	Miscellaneous General Expenses	$ 149,902	$ (803,745)
46		**Total General and Miscellaneous Expenses**	**$ 3,437,458**	**$ (2,379,993)**
47		**GRAND TOTAL OPERATING EXPENSES**	**$ 8,687,571**	**$ (4,729,302)**

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Annual Report of Aquarion Water Company of Massachusetts **Year ended December 31, 2020**

OPERATING EXPENSES (CONT'D)

(For companies having average operating revenues not exceeding $15,000.)

State the operating expenses of the respondent for the year ended December 31, 2020 classifying them in accordance with the Uniform System of Accounts.

Line No.	Kind of Tax (a)	Federal	State	Municipal	Total
48	FIT	$ 9,120,017			$ 9,120,017
49	FICA	$ 140,577			$ 140,577
50	FUTA	$ 918			$ 918
51	Property Tax			$ 778,123	$ 778,123
52	SUTA		$ 6,350		$ 6,350
53	SIT		$ 3,696,012		$ 3,696,012
54	Other General Taxes		$ -		$ -
55					
56					
57					
58					
59					
60	**TOTALS**	**$ 9,261,512**	**$ 3,702,362**	**$ 778,123**	**$ 13,741,998**

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2020**

Real Estate Information - Millbury

1. Land owned by the Company

	Location	Use
A	Millbury Avenue	Location of Well & Pump Station
B	Burbank Hill	Location of Reservoir
C	Howe Avenue	Location Basins #1, #2 & #3
D	Oak Pond Avenue	Oak Pond Pump Station
E	North Main Street @ Jacques Curve	#1 & #2 North Main Street Pump Station
F	Sutton Road	Location of Booster Station

	Area	When Bought	Cost
A	3.00 Acres	1849	
B	3.00 Acres	1895	$25,802
C	55.23 Acres	1895 - 1913	$3,823
D	97,129 Square Feet	1957	$4,106
E	20.39 Acres	1965	$16,824
F	10,051 Square Feet	1994	$11,999

	Location	Use
A	Oak Pond Avenue	Pump Station
B	North Main Street #2 Well	Pump Station
C	North Main Street #1 Well	Pump Station
D	34 Sutton Road	Booster Pump Station
E	Horne Way	Booster Pump Station
F	North Main St. WTP	Water Treatment Plant
G	35 Millbury Ave.	Raw Water Pump Station
H	35 Millbury Ave.	Water Treatment Plant

	Size	Material	When Built	Cost
A	19' x 16'	Concrete Block	1958	
B	20' x 17'	Concrete Block	1966	
C	20' x 17'	Concrete Block	1966 - 67	
D	17' x 22'	Brick & Concrete	1994	
E	22' x 33'	Wood	2000	
F	29' x 67'	Metal	2003	
G	17' x 18'	Concrete Block	2002	
H	45' x 100'	Concrete Block	2002	

* By cost is meant the original cost of Installation, not the Book Value

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2020**

Real Estate Information -Oxford

1. Land owned by the Company

	Location		Use	
A	Main St, Oxford, MA		Well & Pump station	
B	Prospect Hill, Oxford, MA		Right of way for standpipe	
C	Prospect Hill, Oxford, MA		Land adjacent to standpipe	
D	Off Holbrook Road- Oxford, Massachusetts		Land for standpipe	
E	From Old Depot Rd to Burbank St Oxford, Mass		Right of way pipeline to standpipe	

	Area		When Bought	Cost
A	9.04 Acres		1906	$4,312
B	1.00 Acre		1907	$319
C	13.30 Acres		1944	$438
D	0.52 Acres		1957	$6,527
E	25.70 Acres		1958 - 1959	$16,338

2. Buildings owned by the Company

	Location		Use	
A	North Main Street Oxford, Massachusetts		Pump Station	
B	North Main Street Oxford, Massachusetts		Pump Station	
C	Off Nelson Street Oxford, Massachusetts		Pump Station	
D	Sutton Ave. Oxford, Massachusetts		Booster Pump Station	

	Size	Material	When Built	Cost
A	20' x 17'	Cement Block	1959	
B	20' x 17'	Cement Block	1959	
C	16' x 10' x 19'9"	Cement Block	1959-64-67	
D	12' x 20'	Prefab. Metal	1999	

* By cost is meant the original cost of Installation, not the Book Value

SUPPLY INFORMATION - Millbury

1. Give a full and complete description of the sources from which water is obtained. State whether these sources sre owned or leased by the Company. If they are leased, quote the terms of the lease. Give the date of the latest opinion of the Department of Public Health reguarding each of these sources of supply.

Water is supplies from four wells all owned by the Company. All are approved public drinking water sources according to Massachusetts DEP.

2. Watersheds owned by the Company

Location	Area	When Bought	Cost
A. Parcel E & F - Howe Ave	8.50 acres	1909	Included on page 400
B. Parcel G, West of E & F - Howe Ave	29.29 acres	1910	
C. West of G - Howe Ave	3.18 acres	1913	

Remarks:

3. Give a full and complete description of any water supply rights that are owned by the company and state when they were bought and what was paid for them.

The Millbury water system holds both a Registration Statement (21218602) and Permit (9P-2-12-186.01) under the Water Management Act issued by the Commonwealth of Massachusetts. The Registration Statement was renewed in 2008 and DEP will not require it to be renewed until 2021. The Water Management Act Permit was renewed in February 2010 and is good until February 28,2029.

SUPPLY INFORMATION - Oxford

1. Give a full and complete description of the sources from which water is obtained. State whether these sources sre owned or leased by the Company. If they are leased, quote the terms of the lease. Give the date of the latest opinion of the Department of Public Health reguarding each of these sources of supply.

The responent owns three gravel packed wells. All wells are approved for use as public water supply sources of the Massachusetts DEP.

2. Watersheds owned by the Company

Location	Area	When Bought	Cost
A. B. C. D.			

Remarks:

3. Give a full and complete description of any water supply rights that are owned by the company and state when they were bought and what was paid for them.

The Oxford water system holds a Registration Statement (21022601) under the Water Management Act issued by the Commonwealth of Massachusetts. The Registration Statement was renewed in 2008 and will not require a renewal until 2021.

SUPPLY INFORMATION - Continued - Millbury

4. Wells

Location	Inside Dimensions	Depth Below High Water	Covered or Uncovered	When Built	Cost
A. Millbury Avenue	25'	36'20"	Covered	1984	
B. Oak pond Avenue	24"	30'	Covered	1958	$5,255
C. Jacques Well Station #2	24"	70'	Covered	1965	$32,389
D. Jacques Well Station #1	24"	53'	Covered	1966	$11,681
F.					

5. Give a full and complete description of the wells

6. Reserviors

Location	Area at Surface When Full	Full Capacity in Gallons	When Built	Cost
A.				
B.				
C.				
D.				
E.				
F.				

7. Describe the reservoirs, stating to what extent they are artificial; to what extent their bottons were cleaned before being put into service; to what extent their slopes and bottoms are paved; what provisions have been made for raising the water level and increasing the capacity; and give the character of construction of any dams.

(A.) Hand dug in 1884 lined with fieldstone 35' deep

(B.) Installed 1958. 18" diameter 31' deep 8" stainless steel screen redeveloped 2014, installed 1958

(C.) Installed 1966. 24" diameter 72' deep 10" stainless steel screen installed 1965 gravel packed, redeveloped 2011

(D.) Installed 1966. 24" diameter 63' deep 10' stainless steel screen gravel packed, installed 1966

SUPPLY INFORMATION - Continued - Oxford

4. Wells

Location	Inside Dimensions	Depth Below High Water	Covered or Uncovered	When Built	Cost
A. N. Main St, Well #1	16"	63'	Covered	1950	$53,994
B. N. Main St, Well #2	24"	65'	Covered	1959	$47,048
C. Nelson St, Well #3	24"	69.9'	Covered	1960	$20,383
D. N. Main St, Well #1A	12"	66'	Covered	2007	$269,981

5. Give a full and complete description of the wells

Three 24" diameter gravel packed wells, one with tansite casting and two stainless steel castings.

6. Reservoirs

Location	Area at Surface When Full	Full Capacity in Gallons	When Built	Cost
A.				
B.				
C.				
D.				
E.				
F.				

7. Describe the reservoirs, stating to what extent they are artificial; to what extent their bottons were cleaned before being put into service; to what extent their slopes and bottoms are paved; what provisions have been made for raising the water level and increasing the capacity; and give the character of construction of any dams.

(A.) #1 N Main drilled 1950 16" diameter 63' deep 10' stainless steel screen, gravel packed. Redeveloped in 2000 & 2016.

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Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2020**

Pumping Information - Millbury

1. Give a general description of the method employed for delivering the water to the company, stating whether gravity is utilized or not; whether the company owns a pumping station or not; and giving all other pertinent information.

Water is supplied from four wells all owned by the company. All are approved public drinking water sources according to the Massachusetts DEP.

2. BOILER

This schedule not presently used

3. CHIMNEYS

This schedule not presently used

4. PUMPING ENGINES, STEAM- ACTUATED

This schedule not presently used

5. PUMPS, DRIVEN BY CONNECTED POWER

	LOCATION	TYPE	NAME OF BUILDER	WHEN INSTALLED	COST
A	Millbury Avenue	Turbine	Floway	2003	*
B	Millbury Avenue	Turbine	Floway	2003	*
C	Millbury Avenue	Turbine	Floway	2003	*
D	Millbury Avenue	Turbine	Floway	2003	*
E	Oak Pond	Turbine	Goulds	2008	*
F	Jacques Well #2	Turbine	Goulds	2019	*
G	Jacques Well #1	Turbine	Goulds	2020	*
H	Sutton Road Booster	Cent	EFI	1993	*
I	Millbury Avenue	Turbine	Floway	2003	*
J	Millbury Avenue	Turbine	Floway	2003	*
K	Brierly Pond	Cent	PENTAIR	2003	*
L	Brierly Pond	Cent	PENTAIR	2003	*
M	Brierly Pond	Cent	PENTAIR	2003	*
N	Brierly Pond	Cent	PENTAIR	2003	*
O	Brierly Pond	Cent	PENTAIR	2003	*
P	Stratford Village	Turbine	Grundfos	2018	*
Q	Stratford Village	Turbine	Grundfos	2018	*
R	Stratford Village	Turbine	Grundfos	2018	*
S	Stratford Village	Turbine	Grundfos	2018	*

	NUMBER OF CYLS.	SINGLE OR DOUBLE ACTING	RATED STROKES PER MINUTE	LENGTH OF STROKE	DIAM. OF PISTINS OR PLUNGERS	HOW DRIVEN	DISPLACEMENT PER 24 HOURS
A			1,790 RPM	Turbine		Electric Motor	1,296,000
B			1,790 RPM	Turbine		Electric Motor	1,296,000
C			1,790 RPM	Turbine		Electric Motor	1,296,000
D			1,180 RPM	Turbine		Electric Motor	1,296,000
E			1,760 RPM	Turbine		Electric Motor	864,000
F			1,760 RPM	Turbine		Electric Motor	457,920
G			1,750 RPM	Turbine		Electric Motor	835,200
H			3,450 RPM	Cent		Electric Motor	864,000
I			1,785 RPM	Turbine		Electric Motor	1,584,000
J			1,785 RPM	Turbine		Electric Motor	1,584,000
K			3,500 RPM	Cent		Electric Motor	1,440,000
L			1,750 RPM	Cent		Electric Motor	172,800
M			1,750 RPM	Cent		Electric Motor	172,800
N			3,500 RPM	Cent		Electric Motor	86,400
O			3,500 RPM	Cent		Electric Motor	86,400
P			3,400 RPM	Turbine		Electric Motor	86,400
Q			3,400 RPM	Turbine		Electric Motor	86,400
R			3,400 RPM	Turbine		Electric Motor	86,400
S			3,400 RPM	Turbine		Electric Motor	86,400

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2020**

Pumping Information - Oxford

1. Give a general description of the method employed for delivering the water to the company, stating whether gravity is utilized or not; whether the company owns a pumping station or not; and giving all other pertinent information.

Water is pumped from company owned pump stations into distribution system containing a standpipe which floats on the system.

2. BOILER

This schedule not presently used

3. CHIMNEYS

This schedule not presently used

4. PUMPING ENGINES, STEAM- ACTUATED

This schedule not presently used

5. PUMPS, DRIVEN BY CONNECTED POWER

	LOCATION	TYPE	NAME OF BUILDER	WHEN INSTALLED	COST
A	North Main Street #1	Turbine	Bryon Jackson	1959	*
B	North Main Street #2	Turbine	Deming	1959	*
C	Nelson Street #3	Turbine	Goulds	2020	*
D	Sutton Ave. Booster	Turbine	G & L Goulds	2019	*
E	Sutton Ave. Booster	Turbine	G & L Goulds	2019	*
F	Sutton Ave. Booster	Turbine	Goulds	2019	*
G	North Main Street #1A	Submersible	Goulds	2007	*

	NUMBER OF CYLS.	SINGLE OR DOUBLE ACTING	RATED STROKES PER MINUTE	LENGTH OF STROKE	DIAM. OF PISTINS OR PLUNGERS	HOW DRIVEN	DISPLACEMENT PER 24 HOURS
A		Turbine	1,750 RPM			LP. Gen	432,000
B		Turbine	1,750 RPM			LP. Gen	576,000
C		Turbine	1,750 RPM			Kohler L.P. Gen	1,152,000
D		Turbine	3,500 RPM			Electric Motor	72,000
E		Turbine	3,500 RPM			Electric Motor	72,000
F		Turbine	3,500 RPM			Electric Motor	1,152,000
G		Submersible	3,500 RPM			Electric Motor	432,000

Pumping Information - Continued Millbury

6. Gas Producers

This schedule not presently used

7. Internal combustion engines.

	Location	Name of Builder	When Installed	Type of Drive	Cost
A	Jacques Well Station #1	Kohler	2010	Generator	
B	Jacques Well Station #2	Kohler	2006	Generator	
C	Oak Pond Well	Cummings	1988	Generator	
D	Sutton Road Booster	Kohler	1994	Generator	
E	Brierly Pond Booster	Generac	2003	Generator	
F	Statford Village	Olympian	2018	Generator	

	For Gas, Gasoline or Oil	Number of Cyls.	Single or Double Acting	Dimensions of Cylinders		2 or 4 Stroke Cycle	Rated H.P.
				Diameter	Stroke		
A	Fuel Oil	4	Single	4.19	5	4	158
B	Fuel Oil	6	Single	4	4 3/8	4	125
C	L.P. Gas	6	Double	5 1/4	15-24 centimeter	4	175
D	L.P. Gas	4	Single	4	5	4	150
E	Natural Gas	8	Double	5 1/4	5	4	175
F	Natural Gas	8	Double	5 1/4	5	4	175

8. ELECTRIC MOTORS, INCLUDING COST OF WIRING SWITHCES

	Location	Name of Builder	When Installed	Cost
A	Jacques Well Station #1	U.S. Electric	2005	
B	Jacques Well Station #2	U.S. Electric	2005	
C	Oak Pond	U.S. Electric	2008	
D	Sutton Rd. Booster	EFI	1993	
E	Brierly Pond Booster	U.S. Electric	2003	
F	Brierly Pond Booster	U.S. Electric	2003	
G	Brierly Pond Booster	U.S. Electric	2003	
H	Brierly Pond Booster	U.S. Electric	2003	
I	Brierly Pond Booster	U.S. Electric	2003	
J	Statford Village	Grundfos	2018	
K	Statford Village	Grundfos	2018	
L	Statford Village	Grundfos	2018	
M	Statford Village	Grundfos	2018	

	A.C. or D.C. if A.C. Give Phase	Volts	Type of Drive	Rated H.P.
A	A.C. 3 Phase	230/460	Direct	60
B	A.C. 3 Phase	230/460	Direct	60
C	A.C. 3 Phase	230/460	Direct	100
D	A.C. 3 Phase	230/460	Direct	60
E	A.C. 3 Phase	230/460	Direct	40
F	A.C. 3 Phase	230/460	Direct	10
G	A.C. 3 Phase	230/460	Direct	10
H	A.C. 3 Phase	230/460	Direct	5
I	A.C. 3 Phase	230/460	Direct	5
J	A.C. 3 Phase	244/480	Direct	20
K	A.C. 3 Phase	244/480	Direct	20
L	A.C. 3 Phase	244/480	Direct	20
M	A.C. 3 Phase	244/480	Direct	20
			Total Horse Power	430

Pumping Information - Continued Oxford

6. Gas Producers

This schedule not presently used

7. Internal combustion engines.

	Location	Name of Builder	When Installed	Type of Drive	Cost
A	#1 North Main Street	Koehler	2012	Generator	
B	#2 North Main Street	Koehler	2012	Generator	
C	#3 Nelson Street	Koehler	2005	Generator	
D	Sutton Ave.	Koehler	2000	Generator	

				Dimensions of Cylinders			
	For Gas, Gasoline or Oil	Number of Cyls.	Single or Double Acting	Diameter	Stroke	2 or 4 Stroke Cycle	Rated H.P.
A	Diesel	4	Double	4.19	5	4	197
B	Diesel	4	Double	4.19	5	4	197
C	L.P. Gas	8	Single	4	4 3/8	4	125
D	L.P. Gas	6	Single	4	3.98	4	82

8. ELECTRIC MOTORS, INCLUDING COST OF WIRING SWITHCES

	Location	Name of Builder	When Installed	Cost
A	#1 North Main Street	U.S. Motors	1990	
B	#2 North Main Street	U.S. Motors	1990	
C	#3 Nelson Street	U.S. Motors	2020	
D	Sutton Ave. Booster	Baldor	1999	
E	#1A North Main Street	Franklin	2007	

	A.C. or D.C. if A.C. Give Phase	Volts	Type of Drive	Rated H.P.
A	A.C. 3 Phase	575	Direct	60
B	A.C. 3 Phase	575	Direct	60
C	A.C. 3 Phase	480	Direct	100
D	A.C. 3 Phase	230/460	Direct	5
E	A.C. 3 Phase	575	Direct	60
			Total Horse Power	285

Pumping Information - Continued. - Millbury

9. Water Wheels and Turbines

	Location	Name of Builder	When Installed	Cost
A.				
B.	NONE			
C.				
D.				

	Type of Machine	Diam. of Runner	Working Head	Speed	Type of Driver	Rated H.P.
A.						
B.						
C.						
D.						

10. Give a full and complete description of any water power rights that are owned by the Company, and say when they were bought and what was paid for them

Pumping Information - Continued. - Oxford

9. Water Wheels and Turbines

	Location	Name of Builder	When Installed	Cost
A.				
B.	NONE			
C.				
D.				

	Type of Machine	Diam. of Runner	Working Head	Speed	Type of Driver	Rated H.P.
A.						
B.						
C.						
D.						

10. Give a full and complete description of any water power rights that are owned by the Company, and say when they were bought and what was paid for them

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2020**

Pumping Information - Continued Millbury

11. Station Log **Total System**

Year and Month 2020	Kwhrs Used	Purchased Water (MG)	Million Gallons of Water Pumped	Hours of Pumping	Total System (MG) Includes Purchased Water	Average Total Static Head	Average Total Dynamic Head
January	132,280	0.150	50.215	2,153	50.365		
February	110,140	0.075	45.022	1,979	45.097		
March	103,190	0.075	44.924	2,017	44.999		
April	100,570	0.150	43.206	1,582	43.356		
May	77,590	0.150	50.645	1,472	50.795		
June	99,740	6.882	49.566	1,903	56.448		
July	76,990	13.688	43.443	1,793	57.131		
August	72,580	14.436	41.446	1,687	55.882		
September	73,690	14.062	39.138	1,626	53.200		
October	72,520	5.386	39.500	1,714	44.886		
November	78,810	2.319	41.679	1,871	43.998		
December	99,400	0.000	41.938	1,672	41.938		
Totals	1,097,500	57.373	530.722	21,469	588.095	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 1.607 MG (366 days)

14. Maximum gallons pumped in a day 2.291 MG

15. Date of same, June 16, 2020

16. Range of pressure in main 21 to 125 lbs

17. Average pressure in main 73 psi

408	Total System	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2020
Pumping Information - Continued Millbury		
18. Kind of coal		
19. Average price per net ton, delivered		
20. Average price of wood per cord, delivered		
21. Average price per gas per M. cubic feet		
22. Average price per gasoline per gallon, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	$ 0.17	
25. Wood consumed durind the year		
26. Gas consumed during the year		
27. Gasoline consumed during the year		
28. Fuel oil consumed during the year		
29. Electric Power used during the year	1,097,500 Kwhrs	

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2020**

Pumping Information - Continued Millbury

11. Station Log **Millbury Ave. Station**

Year and Month 2020	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	52,700		19.866	659		
February	42,300		17.250	579		
March	35,000		15.203	514		
April	38,200		17.733	578		
May	44,900		24.740	628		
June	49,000		16.093	466		
July	17,600		8.580	302		
August	19,100		5.556	215		
September	15,400		5.217	211		
October	10,600		5.578	228		
November	20,600		10.702	428		
December	38,800		14.320	454		
Totals	384,200	0	160.838	5,262	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.439 MG (366 days)

14. Maximum gallons pumped in a day 1.132 MG

15. Date of same, May 25, 2020

16. Range of pressure in main 21 to 125 lbs

17. Average pressure in main 73 psi

Pumping Information - Continued Millbury

18. Kind of coal			
19. Average price per net ton, delivered			
20. Average price of wood per cord, delivered			
21. Average price per gas per M. cubic feet			
22. Average price per gasoline per gallon, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$	0.16	
25. Wood consumed durind the year			
26. Gas consumed during the year			
27. Gasoline consumed during the year			
28. Fuel oil consumed during the year			
29. Electric Power used during the year		384,200	Kwhrs

Pumping Information - Continued Millbury

11. Station Log **Oak Pond Station**

Year and Month 2020	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	4,480		0.000	0		
February	3,840		0.000	0		
March	3,040		0.000	0		
April	1,920		0.000	0		
May	1,440		0.000	0		
June	640		0.000	0		
July	640		0.000	0		
August	480		0.000	0		
September	640		0.000	0		
October	1,120		0.000	0		
November	1,760		0.000	0		
December	2,400		0.000	0		
Totals	22,400	0	0.000	0	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.000 MG (366 days)

14. Maximum gallons pumped in a day 0 MG

15. Date of same,

16. Range of pressure in main 21 to 125 lbs

17. Average pressure in main 73 psi

Pumping Information - Continued Millbury

18. Kind of coal			
19. Average price per net ton, delivered			
20. Average price of wood per cord, delivered			
21. Average price per gas per M. cubic feet			
22. Average price per gasoline per gallon, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$	0.26	
25. Wood consumed durind the year			
26. Gas consumed during the year			
27. Gasoline consumed during the year			
28. Fuel oil consumed during the year			
29. Electric Power used during the year		22,400	Kwhrs

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Pumping Information - Continued Millbury

11. Station Log **Jacques #1 N. Main St. Station**

Year and Month 2020	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	45,050		18.447	748		
February	38,100		15.320	700		
March	38,700		17.616	751		
April	32,500		7.876	285		
May	600		2.839	95		
June	22,650		21.419	721		
July	33,800		22.578	746		
August	31,150		24.294	748		
September	34,300		23.165	727		
October	36,150		22.833	742		
November	32,150		19.826	727		
December	32,550		21.431	737		
Totals	377,700	0	217.644	7,727	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.595 MG (366 days)

14. Maximum gallons pumped in a day 0.955 MG

15. Date of same, December 27, 2020

16. Range of pressure in main 21 to 125 lbs

17. Average pressure in main 73 psi

Pumping Information - Continued Milll Pumping Information - Continued Millbury

18. Kind of coal			
19. Average price per net ton, delivered			
20. Average price of wood per cord, delivered			
21. Average price per gas per M. cubic feet			
22. Average price per gasoline per gallon, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$	0.16	
25. Wood consumed durind the year			
26. Gas consumed during the year			
27. Gasoline consumed during the year			
28. Fuel oil consumed during the year			
29. Electric Power used during the year	377,700	Kwhrs	

Pumping Information - Continued Millbury

11. Station Log **Jacques #2 N. Main St. Station**

Year and Month 2020	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	30,050		11.902	746		
February	25,900		12.452	700		
March	26,450		12.105	752		
April	27,950		17.597	719		
May	30,650		23.066	749		
June	27,450		12.054	716		
July	24,950		12.285	745		
August	21,850		11.596	724		
September	23,350		10.756	688		
October	24,650		11.089	744		
November	24,300		11.151	716		
December	25,650		6.187	481		
Totals	313,200	0	152.240	8,480	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.416 MG (366 days)

14. Maximum gallons pumped in a day 1.019 MG

15. Date of same, May 26, 2020

16. Range of pressure in main 21 to 125 lbs

17. Average pressure in main 73 psi

Pumping Information - Continued Millbury

18. Kind of coal			
19. Average price per net ton, delivered			
20. Average price of wood per cord, delivered			
21. Average price per gas per M. cubic feet			
22. Average price per gasoline per gallon, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$	0.19	
25. Wood consumed durind the year			
26. Gas consumed during the year			
27. Gasoline consumed during the year			
28. Fuel oil consumed during the year			
29. Electric Power used during the year		313,200	Kwhrs

Pumping Information - Continued Oxford

11. Station Log **Total System**

Year and Month 2020	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	37,256		15.672	981		
February	31,070		13.862	845		
March	32,734		14.978	869		
April	24,387		14.725	911		
May	26,156		19.137	1,087		
June	36,708		25.411	1,260		
July	45,113		25.817	1,165		
August	39,849		25.472	1,141		
September	37,692		21.428	946		
October	35,523		19.016	966		
November	34,361		19.019	1,079		
December	38,266		16.787	877		
Totals	419,115	0	231.324	12,127	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.632 MG (366 days)

14. Maximum gallons pumped in a day 1.109 MG

15. Date of same, June 21, 2020

16. Range of pressure in main 48 to 112 lbs

17. Average pressure in main 80 psi

Pumping Information - Continued Oxford

18. Kind of coal			
19. Average price per net ton, delivered			
20. Average price of wood per cord, delivered			
21. Average price per gas per M. cubic feet			
22. Average price per gasoline per gallon, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$	0.17	
25. Wood consumed durind the year			
26. Gas consumed during the year			
27. Gasoline consumed during the year			
28. Fuel oil consumed during the year			
29. Electric Power used during the year		419,115	Kwhrs

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Pumping Information - Continued Oxford

11. Station Log **North Main St. Well #1**

Year and Month 2020	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	8,800		0.055	3		
February	6,200		0.201	13		
March	19,600		2.283	128		
April	22,800		3.227	186		
May	24,800		2.185	124		
June	11,600		1.304	78		
July	12,800		0.093	6		
August	11,400		0.000	0		
September	7,600		0.201	13		
October	6,000		0.160	10		
November	8,800		0.077	5		
December	11,000		0.338	24		
Totals	151,400	0	10.124	590	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.028 MG (366 days)

14. Maximum gallons pumped in a day 0.226 MG

15. Date of same, May 10, 2020

16. Range of pressure in main 48 to 112 lbs

17. Average pressure in main 80 lbs per sq in

408	North Main St. Well #1	
Annual report of Aquarion Water Company of Massachusetts		Year Ended December 31, 2020
Pumping Information - Continued Oxford		

18. Kind of coal			
19. Average price per net ton, delivered			
20. Average price of wood per cord, delivered			
21. Average price per gas per M. cubic feet			
22. Average price per gasoline per gallon, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$	0.19	
25. Wood consumed durind the year			
26. Gas consumed during the year			
27. Gasoline consumed during the year			
28. Fuel oil consumed during the year			
29. Electric Power used during the year		151,400	Kwhrs

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Pumping Information - Continued Oxford

11. Station Log **North Main St. Well #1A**

Year and Month 2020	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	0		0.000	0		
February	0		0.000	0		
March	0		0.000	0		
April	0		0.000	0		
May	0		0.000	0		
June	0		0.000	0		
July	0		0.000	0		
August	0		0.000	0		
September	0		0.000	0		
October	0		0.000	0		
November	0		0.000	0		
December	0		0.000	0		
Totals	(See station # 1 for totals)		0.000	0	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.000 MG (366 days)

14. Maximum gallons pumped in a day MG

15. Date of same,

16. Range of pressure in main 48 to 112 lbs

17. Average pressure in main 80 psi

408	North Main St. Well #1A	
Annual report of Aquarion Water Company of Massachusetts		Year Ended December 31, 2020
Pumping Information - Continued Oxford		
18. Kind of coal		
19. Average price per net ton, delivered		
20. Average price of wood per cord, delivered		
21. Average price per gas per M. cubic feet		
22. Average price per gasoline per gallon, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	see North Main Street #1 meter	
25. Wood consumed durind the year		
26. Gas consumed during the year		
27. Gasoline consumed during the year		
28. Fuel oil consumed during the year		
29. Electric Power used during the year	see North Main Street #1 meter	

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Pumping Information - Continued Oxford

11. Station Log **North Main St. Well #2**

Year and Month 2020	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Average Total Static Head	Average Total Dynamic Head
January	0		2.932	230		
February	0		3.492	230		
March	0		12.695	741		
April	0		11.498	725		
May	0		7.913	527		
June	0		6.893	460		
July	0		6.293	416		
August	0		5.902	388		
September	0		3.408	226		
October	0		3.270	220		
November	0		5.132	353		
December	0		4.831	265		
Totals	(See station # 1 for totals)		74.259	4,781	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.203 MG (366 days)

14. Maximum gallons pumped in a day 0.502 MG

15. Date of same, March 5, 2020

16. Range of pressure in main 48 to 112 lbs

17. Average pressure in main 80 psi

* One electric meter is used for 1, 1A & 2

408	North Main St. Well #2	
Annual report of Aquarion Water Company of Massachusetts		Year ended December 31, 2020
Pumping Information - Continued Oxford		
18. Kind of coal		
19. Average price per net ton, delivered		
20. Average price of wood per cord, delivered		
21. Average price per gas per M. cubic feet		
22. Average price per gasoline per gallon, delivered		
23. Average price of fuel oil per gallon, delivered		
24. Average price of electric power per Kwhr	see North Main Street #1 meter	
25. Wood consumed durind the year		
26. Gas consumed during the year		
27. Gasoline consumed during the year		
28. Fuel oil consumed during the year		
29. Electric Power used during the year	see North Main Street #1 meter	

11. Station Log **Nelson St. #3**

Year and Month 2020	Kwhrs Used	Pounds of coal Burned	Million Gallons of Water Pumped	Hours of Pumping	Total Static Head	Average Total Dynamic Head
January	28,456		12.685	748		
February	24,870		10.169	602		
March	13,134		0.000	0		
April	1,587		0.000	0		
May	1,356		9.039	436		
June	25,108		17.214	722		
July	32,313		19.431	743		
August	28,449		19.570	753		
September	30,092		17.819	707		
October	29,523		15.586	736		
November	25,561		13.810	721		
December	27,266		11.618	588		
Totals	267,715	0	146.941	6,756	0	0

12. Based upon the displacement of_____gallons per revolution with_____per cent allowance for slip____

13. Average gallons per day 0.401 MG (366 days)

14. Maximum gallons pumped in a day 0.764 MG

15. Date of same, July 29, 2020

16. Range of pressure in main 48 to 112 lbs

17. Average pressure in main 80 psi

18. Kind of coal			
19. Average price per net ton, delivered			
20. Average price of wood per cord, delivered			
21. Average price per gas per M. cubic feet			
22. Average price per gasoline per gallon, delivered			
23. Average price of fuel oil per gallon, delivered			
24. Average price of electric power per Kwhr	$	0.16	
25. Wood consumed durind the year			
26. Gas consumed during the year			
27. Gasoline consumed during the year			
28. Fuel oil consumed during the year			
29. Electric Power used during the year		267,715	Kwhrs

409 Milbury

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2020**

DISTRIBUTION INFORMATION

1. Mains

Nominal Diameter, Inches	Kind of Pipe	Weight Per Foot	LENGTHS IN FEET: In Use at Beginning of Year	Taken Up Since	Abandoned But Not Taken Up	Laid Since	In Use at Close of Year
16	Cast Iron		6,575				6,575
12	C. I. & Ductile		39,297			1,691	40,988
10	Cast Iron		17,691				17,691
8	C.I. & Ductile		121,340	691		691	121,340
6	C.I. & Ductile		66,591			85	66,676
4	Cast Iron		1,323				1,323
3	Cast Iron		935				935
2 1/4	Cast Iron		12,751				12,751
2	Cast Iron		2,668	20			2,648
8	Transite		1,497				1,497
6	Transite		3,604	961			2,643
2	Plastic		902			20	922
		TOTALS	275,174	1,672	0	2,487	275,989

2. Cost of repairs per mile of pipe including valves $ 5,637

3. Number of leaks in mains, during the year 19

4. Number of leaks per mile 0.2104

5. Length of mains less than 4 inches in diamater 17,256 miles 3.27

409 Oxford

Annual report of Aquarion Water Company of Massachusetts **Year ended December 31, 2020**

DISTRIBUTION INFORMATION

1. Mains

Nominal Diameter, Inches	Kind of Pipe	Weight Per Foot	LENGTHS IN FEET In Use at Beginning of Year	Taken Up Since	Abandoned But Not Taken Up	Laid Since	In Use at Close of Year
16	Ductile		3,328				3,328
12	C.I. & Ductile		32,075				32,075
10	C.I. & Ductile		1,674				1,674
8	C.I. & Ductile		83,590	10		20	83,600
6	C.I. & Ductile		51,973				51,973
3	C.I. & Ductile		200				200
2 1/4	C.I. & Ductile		3,665				3,665
2	C.I. & Ductile		11,413				11,413
8	Transite		5,480	10			5,470
6	Transite		20,890				20,890
4	Ductile		354				354
2	Plastic		31				31
		TOTALS	214,673	20	0	20	214,673

2. Cost of repairs per mile of pipe including valves $ 1,077

3. Number of leaks in mains, during the year 3

4. Number of leaks per mile 0.0738

5. Length of mains less than 4 inches in diamater 15,309 miles 2.90

DISTRIBUTION INFORMATION

6. Water towers or stand pipes

	Location	Land Area	Land When Bought	Land Cost
A	Burbank Hill	3.00 Acres	1895	
B				
C				
D				

	Inside Diameter	Capacity in Gallons	When Bought	Cost
A	130'	1,500,000	1895	$25,802
B				
C				
D				

7. Services

Nominal Diameter Inches	Kind of Pipe	Number Installed and in Use at Beginning of Year	Taken Up Since	Laid Since	Installed and in Use at Close of Year
12	Cast Iron Ductile	1			1
10	Cast Iron	2			2
8	Cast Iron Ductile	22			22
6	Cast Iron Ductile	73			73
4	Cast Iron Ductile	55			55
3	Cast Iron	1			1
2 1/4	Cast Iron	7			7
2	Cast Iron	25			25
1 1/4	Cast Iron	0			0
1 1/2	Copper	0			0
3/4	Copper	1,438	27		1,411
3/4	Plastic	609			609
1	Copper	493		36	529
1	Plastic	504	1		503
1	Cement Lined	489			489
2	Plastic	38	1		37
2	Copper	2			2
1 1/4	Plastic	3			3
	TOTALS	3,762	29	36	3,769

Also 11 residential services in the Town of Auburn that are included in the above totals

8. Average length of service pipe 27 feet

9. Average cost of service laid during the year $ 6,016

10. Percentage of services that are metered all except fire service

11. Percentage in income that is metered 90%

12. Leaks in service during the year 6

13. Are service pipes paid for by consumer, in whole or in part and by what extent? Water company provides labor materials for installation up to 2 inch in size, customer provides all other requirements to install water service including materials over 2 inch in size.

DISTRIBUTION INFORMATION

6. Water towers or stand pipes

	Location	Land		
		Area	When Bought	Cost
A	N. Main St., Oxford , MA	1 Acre	1905	$319
B		13.4 Acres	1944	$438
C				
D				

	Inside Diameter	Capacity in Gallons	When Bought	
A	27	215,000	1905	
B				
C				
D				

7. Services

Nominal Diameter Inches	Kind of Pipe	Number Installed and in Use at Beginning of Year	Taken Up Since	Laid Since	Installed and in Use at Close of Year
12	Cast Iron Ductile	1			1
8	Cast Iron Ductile	4			4
6	Cast Iron Ductile	30			30
2 1/4	Cast Iron	10			10
2	Galv Iron	0			0
1 1/2	Copper	0			0
1 1/4	Copper	0			0
1	Copper	400		8	408
3/4	Copper	1,375	3		1,372
2	Cast Iron	5			5
4	Cast Iron Ductile	6			6
3/4	Plastic	228	1		227
1	Plastic	547			547
2	Plastic	33			33
1	Galv Iron	18			18
	TOTALS	2,657	4	8	2,661

8. Average length of service pipe 27 feet

9. Average cost of service laid during the year $ 6,260

10. Percentage of services that are metered all except fire service

11. Percentage in income that is metered 90%

12. Leaks in service during the year 5

13. Are service pipes paid for by consumer, in whole or in part and by what extent? Water company provides labor materials for installation up to 2 inch in size, customer provides all other requirements to install water service including materials over 2 inch in size.

DISTRIBUTION INFORMATION - Continued

14. Gates and valves

Nomial Diameter Inches	Kind of Valves	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
16	Butterfly	2			2
16	Gate Valve	6			6
12	Gate Valve	72		10	82
10	Gate Valve	25	3		22
8	Gate Valve	254	1	7	260
6	Gate Valve	345	5	5	345
4	Gate Valve	3			3
3	Gate Valve	6			6
2 1/4	Gate Valve	30			30
2	Gate Valve	25			25
3/4	Gate Valve	2			2
	Totals	770	9	22	783

The above list should include all valves that are installed in the mains, whether they are gate valves, blow offs, check valves or otherwise.

DISTRIBUTION INFORMATION - Continued

14. Gates and valves

Nomial Diameter Inches	Kind of Valves	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
16	Butterfly	7			7
16	Gate Valve	0			0
12	Gate Valve	72			72
10	Gate Valve	3			3
8	Gate Valve	210			210
6	Gate Valve	280			280
2 1/2	Gate Valve	18			18
2	Gate Valve	11			11
1 1/4	Gate Valve	2			2
1	Gate Valve	8			8
4	Gate Valve	1			1
	Totals	612	0	0	612

The above list should include all valves that are installed in the mains, whether they are gate valves, blow offs, check valves or otherwise.

DISTRIBUTION INFORMATION - Continued

15. HYDRANTS.PUBLIC

Nominal Diameter Inches	Hose Outlets	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
4 1/2	2 - 2 1/2	24	1		23
5	2 - 2 1/2, 1- 4	1			1
5 1/4	2 - 2 1/2, 1- 4	73		16	89
4 1/4	2 - 2 1/2, 1- 4	65	4		61
4 1/2	2 - 2 1/2, 1- 4	60			60
4 3/4	2 - 2 1/2, 1- 4	8			8
4 1/4	2 - 2 1/2, 1- 4	1	Hydrant is located in town of Auburn		1
	TOTALS	232	5	16	243

16. Were all of the above hydrants purchases and installed at the expense of the company? NO

17. If not, under what arrangement were they purchases and installed? Hydrants installed on new main extensions are paid by developers.

18. HYDRANTS.PRIVATE

Nominal Diameter Inches	Hose Outlets	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
4	2 - 2 1/2	28			28
4 1/2	2 - 2 1/2, 1- 4	13			13
4 1/4	2 - 2 1/2, 1- 4	5			5
5 1/4	2 - 2 1/2, 1- 4	72	11		61
	TOTALS	118	11	0	107

19. Were all of the above hydrants purchases and installed at the expense of the company? NO

20. If not, under what arrangement were they purchases and installed? Customer Purchased

DISTRIBUTION INFORMATION - Continued

15. HYDRANTS.PUBLIC

Nominal Diameter Inches	Hose Outlets	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
4	2 - 2 1/2	27			27
4	3 - 2 1/2	0			0
4 1/4	2 - 2 1/2, 1- 4	3			3
4 1/2	2 - 2 1/2, 1- 4	61			61
5	2 - 2 1/2, 1- 4	5			5
4	2 - 2 1/2, 1- 4	1			1
5 1/4	2 - 2 1/2, 1- 4	89			89
	TOTALS	186	0	0	186

16. Were all of the above hydrants purchases and installed at the expense of the company? NO

17. If not, under what arrangement were they purchases and installed? Hydrants installed on new main extensions are paid for by developers.

18. HYDRANTS.PRIVATE

Nominal Diameter Inches	Hose Outlets	Number in Use at Beginning of Year	Removed Since	Installed Since	Number in Use at Close of Year
4	2 - 2 1/2, 1- 4	12			12
5 1/4	2 - 2 1/2, 1- 4	0			0
	TOTALS	12	0	0	12

19. Were all of the above hydrants purchases and installed at the expense of the company? NO

20. If not, under what arrangement were they purchases and installed? Customer Purchased

DISTRIBUTION INFORMATION - Continued

21. Meters owned by Company

Size inches	Number at Beginning of Year		Bought Since	Condemned Since and Removed	Number at Close of Yea	
	In Use	On Hand			In Use	On Hand
1/2						
5/8	3,652	455	340	193	3,634	620
3/4	0	0	0	0	0	0
1	62	9	5	1	65	10
1 1/2	19	7	3	2	19	8
2	52	5	9	6	49	11
3	1	0	0	0	1	0
4	4	0	0	0	4	0
5	0	0	0	0	0	0
8	0	0	0	0	0	0
Totals	3,790	476	357	202	3,772	649

22. Has the plant been debited with the first cost of installing the meters in use at close of year, above stated? Yes

23. If so, was the cost the actual cost or some assumed or average cost? Actual

24. Are any of these meters paid for by consumers, and to what extent? None

Company owned meters at pump stations:

Oak Pond Station 1-8" Honeywell Flow
#1 Jacques 1-8" Chessel Flow
#2 Jacques 1-8" Chessel Flow
5-1" mtrs for make up water - 1-Oak Pond, 1-#1 Jacques, 1-#2 Jacques, 2-Millbury Ave. Filter Plant
Millbury Ave. - 5-6" Primary Flow Signal Flow Meters
Millbury Ave. - 3-8" Primary Flow Signal Flow Meters

DISTRIBUTION INFORMATION - Continued

21. Meters owned by Company

Size inches	Number at Beginning of Year In Use	Number at Beginning of Year On Hand	Bought Since	Condemned Since and Removed	Number at Close of Year In Use	Number at Close of Year On Hand
1/2						
5/8	2,539	0	160	139	2,525	35
3/4	0	0	0	0	0	0
1	64	0	3	4	64	-1
1 1/2	11	0	1	2	10	0
2	17	0	8	4	17	4
3	0	0	0	0	0	0
4	0	0	0	0	0	0
6	3	0	0	0	3	0
8	0	0	0	0	0	0
Totals	2,634	0	172	149	2,619	38

22. Has the plant been debited with the first cost of installing the meters in use at close of year, above stated? Yes

23. If so, was the cost the actual cost or some assumed or average cost? Actual

24. Are any of these meters paid for by consumers, and to what extent? None

Company owned meters at pump stations:

N Main St. & #1A N. Main St.
N. Main St. #1 1-8" Chessel flow
N. Main St. #2 1-8" Chessel flow
Nelson St. #3 1-8" Chessel flow
2-1" Meter for make up water
#1N. Main St.
#3 Nelson St.

Distribution Information - Concluded

25. Meters owned by Company

		Size										
Maker	Type	1/2	5/8	3/4	1	1 1/2	2	3	4	6	8	Total
Neptune	Disc		3,632	-	65	19	46					3,762
Badger	Disc		1									1
Neptune	Turbine											-
Kent	Disc		1									1
Rockwell	Disc											-
Sensus	Disc						2	1				3
Trident	Disc						1		4			5
Totals		-	3,634	-	65	19	49	1	4	-	-	3,772

Distribution Information - Concluded

25. Meters owned by Company

		Size										
Maker	Type	1/2	5/8	3/4	1	1 1/2	2	3	4	6	8	Total
Neptune	Disc		2,520	-	64	10	17					2,611
Badger	Disc		3									3
Neptune	Turbine									3		3
Kent	Disc		2									2
Rockwell	Disc											-
Sensus	Disc											-
Trident	Disc											-
Totals		-	2,525	-	64	10	17	-	-	3	-	2,619

415 Millbury

Annual report of Massachusetts American Water Company **Year ended December 31, 2020**

CONSUMPTION INFORMATION

1. Estimated total population of territory covered by franchise,	13,961	
2. Estimated population reached by the distribution system,	**9**,431	
3. Estimated population actually supplied,	**9**,431	
4. Total consumption during the year (1)	504,582,000	gallons
5. Average daily consumption (2)	1,607,000	gallons
6. Day on which greatest amount was pumped	June 16, 2020	
7. Gallons pumped on above day	2,291,000	gallons
8. Week during which greatest amount was pumped	July 27- August 2	
9. Gallons pumped during above week	20,865,000	gallons
10. Gallons per day per service (3)	363	gallons
11. Consumption metered	504,582,000	gallons
12. Consumption metered	100.00%	Per cent of total consumption

13. Customers

Number being Supplied at Beginning of Year	Disconnected Since	Connected Since	Number being Supplied at Close of Year
4,030		7	4,037

Name of City, Town or District	Number of Customers as of December 31, 2020
Millbury	4,037

(1) Represents Total Water Production During the Year
(2) Represents Average Daily Production
(3) Represents Metered Consumption per day per Customer, excluding Fire Services.

415 Oxford

Annual report of Massachusetts American Water Company **Year ended December 31, 2020**

CONSUMPTION INFORMATION

1. Estimated total population of territory covered by franchise,	12,220	
2. Estimated population reached by the distribution system,	6,837	
3. Estimated population actually supplied,	6,837	
4. Total consumption during the year (1)	188,854,000	gallons
5. Average daily consumption (2)	632,000	gallons
6. Day on which greatest amount was pumped	June 21, 2020	
7. Gallons pumped on above day	1,109,000	gallons
8. Week during which greatest amount was pumped	June 15 - June 21	
9. Gallons pumped during above week	6,756,000	gallons
10. Gallons per day per service (3)	195	gallons
11. Consumption metered	188,854,000	gallons
12. Consumption metered	100.00%	Per cent of total consumption

13. Customers

Number being Supplied at Beginning of Year	Disconnected Since	Connected Since	Number being Supplied at Close of Year
2,681		4	2,685

Name of City, Town or District	Number of Customers as of December 31,2020
Oxford	2,685

(1) Represents Total Water Production During the Year
(2) Represents Average Daily Production
(3) Represents Metered Consumption per day per Customer, excluding Fire Services.

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

Donald J. Morrissey Jr. *President*

Director

Director

SIGNATURES OF ABOVE PARTIES AFFIXED OUTSIDE THE COMMONWEALTH OF MASSACHUSETTS MUST BE PROPERLY SWORN TO

Bridgeport, Connecticut as March 31, 2013

Then personally appeared Donald J. Morrissey,
President, Aquarion Water Company
of Massachusetts

and severally made oath to the truth of the foregoing statement by them subscribed according to their best knowledge and belief.

Joy Hyde
Signature

Notary Public or
Justice of the Peace

Expiration of Commission

Joy Hyde
Notary Public, State of Connecticut
My Commission Expires Aug 31, 2025

RATE FOR METERED SERVICE – SERVICE AREA A

AVAILABILITY
This rate is available to customers located in the following towns on the mains of the Company within the Company's franchise area, for all purposes except fire protection, subject to the Rules and Regulations of the Company: Cohasset (North Cohasset), Hingham, Hull and Norwell.

WATER CHARGE
A water charge will be made for all water used as registered by the meter, as set forth below:

Rate Per Hundred Cubic Feet (CCF)

RATE R1 - Applies to all metered residential usage by customers classified as such on the Company's records.

First 12 CCF per Quarter/ 4 CCF per Month	$3.613
Over 12 CCF per Quarter/ 4 CCF per Month	$4.588

RATE G1 - Applies to all metered commercial usage by customers classified as such on the Company's records, which do not qualify for Rate G4.

First 12 CCF per Quarter/ 4 CCF per Month	$2.668
Over 12 CCF per Quarter/ 4 CCF per Month	$3.230

RATE G2 - Applies to all metered public authority usage by customers classified as such on the Company's records, which do not qualify for Rate G4.

First 12 CCF per Quarter / 4 CCF per Month	$2.653
Over 12 CCF per Quarter/ 4 CCF per Month	$2.959

RATE G3 - Applies to all metered industrial usage by customers classified as such on the Company's records, which do not qualify for Rate G4. All Usage $2.953

RATE G4 - Applies to the total monthly usage by qualifying non-residential customers, classified as such on the Company's records, as per the following criteria: All Usage $2.009

Monthly billed amounts:	not less than 10,000,000 gallons, and not more than 40,000,000 gallons
Past 12 months total billed amount	not less than 120,000,000 gallons.

Usage which does not meet these criteria shall be charged at the appropriate G1, G2 or G3 Rate.

SERVICE CHARGE
In addition, all metered general water service customers shall pay a service charge on the size of each meter installed. Customers with multiple meters shall be charged for each meter at the indicated rate.

	Service Charge	
Size of Meter	**Per Month**	**Per Quarter**
5/8"	$ 16.08	$ 48.24
3/4"	$ 24.05	$ 72.15
1"	$ 40.12	$ 120.36
1 1/2"	$ 80.32	$ 240.96
2"	$ 128.55	$ 385.65
3"	$ 241.10	$ 723.30
4"	$ 401.88	$ 1,205.64
6"	$ 803.82	$ 2,411.46
8"	$ 1,286.16	$ 3,858.48

TERMS OF PAYMENT
The Company may render bills on either a quarterly or monthly basis. The above rates are payable within forty-five (45) days of the date of the bill.

Issued: October 31, 2018 Effective: November 1, 2018

Issued By: Donald J. Morrissey Title: Vice President, Treasurer

RATE FOR METERED SERVICE – SERVICE AREA B

AVAILABILITY

This rate is available to customers located in the following towns on the mains of the Company within the Company's franchise area, for all purposes except fire protection, subject to the Rules and Regulations of the Company: Millbury, Oxford.

WATER CHARGE

A water charge will be made for all water used as registered by the meter, as set forth below:

	Rate Per Thousand Gallons(KGAL):
RATE R1 - Applies to all metered residential usage by customers classified as such on the Company's records.	
First 9 KGAL per Quarter/ 3 KGAL per Month	$4.830
Over 9 KGAL per Quarter/ 3 KGAL per Month	$6.133
RATE G1 - Applies to all metered commercial usage by customers classified as such on the Company's records, which do not qualify for Rate G4.	
First 9 KGAL per Quarter/ 3 KGAL per Month	$3.567
Over 9 KGAL per Quarter/ 3 KGAL per Month	$4.318
RATE G2- Applies to all metered public authority usage by customers classified as such on the Company's records, which do not qualify for Rate G4.	
First 9 KGAL per Quarter/ 3 KGAL per Month	$3.547
Over 9 KGAL per Quarter/ 3 KGAL per Month	$3.956
RATE G3- Applies to all metered industrial usage by customers classified as such on the Company's records, which do not qualify for Rate G4. All Usage	$3.947
RATE G4 - Applies to the total monthly usage by qualifying non-residential customers, classified as such on the Company's records, as per the following criteria: All Usage	$2.686

Monthly billed amounts:	not less than 10,000,000 gallons, and not more than 40,000,000 gallons
Past 12 months total billed amount	not less than 120,000,000 gallons.

Usage which does not meet these criteria shall be charged at the G1, G2 or G3 Rate.

SERVICE CHARGE

In addition, all metered general water service customers shall pay a service charge on the size of each meter installed. Customers with multiple meters shall be charged for each meter at the indicated rate.

	Service Charge	
Size of Meter	**Per Month**	**Per Quarter**
5/8"	$ 16.08	$ 48.24
3/4"	$ 24.05	$ 72.15
1"	$ 40.12	$ 120.36
1 1/2"	$ 80.32	$ 240.96
2"	$ 128.55	$ 385.65
3"	$ 241.10	$ 723.30
4"	$ 401.88	$ 1,205.64
6"	$ 803.82	$ 2,411.46
8"	$ 1,286.16	$ 3,858.48

TERMS OF PAYMENT

The Company may render bills on either a quarterly or monthly basis. The above rates are payable within forty-five (45) days of the date of the bill.

Issued: October 31, 2018 Effective: November 1, 2018

Issued By: Donald J. Morrissey Title: Vice President, Treasurer

RATE FOR PRIVATE FIRE PROTECTION

AVAILABILITY

This rate is available to customers located on the mains of the Company within the Company's franchise area for Private Fire Protection, subject to the Rules and Regulations of the Company.

RATE

	Per Year
For each service connection 1"	$ 122.17
For each service connection 1.25"	137.54
For each service connection 1.5"	$ 154.84
For each service connection 2"	$ 206.69
For each service connection 2.5"	$ 272.00
For each service connection 3"	$ 352.67
For each service connection 4" or smaller	$ 552.44
For each service connection 6"	$ 1,105.64
For each service connection 8"	$ 1,873.97
For each service connection 10"	$ 2,949.64
For each service connection 12"	$ 4,178.96
For each privately owned fire hydrant serving Cohasset, Hingham, Hull, Millbury and Oxford	$ 913.37
For each privately owned fire hydrant outside Cohasset, Hingham, Hull, Millbury and Oxford	$ 1,150.13

TERMS OF PAYMENT

Bills shall be rendered and due monthly or quarterly in advance. The above rates are net and are payable within forty-five (45) days of the date of the bill. The Company reserves the right to disconnect the service of any customers not having their account paid in full within forty-five (45) days of the date of the bill.

SPECIAL PROVISIONS

(a) All water shall be used for fire protection purposes only.

(b) The Company reserves the right, if water is used in violation of (a) above, to install a meter on the connection at any time which will meet the requirements of the fire insurance companies. In the event a meter is installed, the established meter rates, including both water and service charges, will apply in lieu of the above rates for Private Fire Protection.

RATE FOR PUBLIC FIRE PROTECTION

AVAILABILITY

This rate is available for Public Fire Protection only, and is subject to the Rules and Regulations of the Company.

RATES

For each Company owned public fire hydrant	$ 193.51
In addition, annual charges as follows:	
Town of Hingham	$ 395,054.00
Town of Hull	$ 227,331.00
Town of Cohasset	$ 18,712.00
Town of Millbury	$ 159,407.00
Town of Oxford	$ 110,892.00

TERMS OF PAYMENT

Bills shall be rendered and due monthly or quarterly in arrears. The above rates are payable within forty-five (45) days of the date of the bill.

SALE FOR RESALE

AVAILABILITY

This rate is available to municipalities, or political subdivisions thereof, for resale to customers resident in territory contiguous to that served by the Company.

RATE

For all water taken, subject to the minimum charge as provided below:

$ 2.00 per 1,000 gallons

MINIMUM CHARGE

A variable minimum charge will apply based on the minimum monthly delivery occurring over the preceding 12 months, but not less than 100,000 gallons per month, times the currently allowed rate per 1,000 gallons.

Example: given a minimum monthly billing of 500,000 gallons, the minimum charge
Would be $2.00 x 500 = $1,000 per month.

TERMS OF PAYMENT

The Company may render bills on either a quarterly or monthly basis. The above rates are payable within forty-five (45) days of the date of the bill.

MISCELLANEOUS CHARGES

Drought Conditions

Termination and Restoration Fee – Business Hours*	$ 65.00
Termination and Restoration Fee – After Hours	$ 392.00

*Normal business hours are Monday through Friday, 8 am to 4 pm.

System Development Charge ("SDC")

Meter Size**	Capacity GPM	Ratio to 5/8" Meter	Fee
5/8"	20	1.00	$640
3/4"	30	1.50	$960
1"	50	2.50	$1,600
1 ½"	100	5.00	$3,200
2"	160	8.00	$5,120
3"	320	16.00	$10,240
4"	500	25.00	$16,000

*SDC is determined on a case by case basis for meter sizes greater than 4".

Mitigation Fee for the Water Balance Program[1]

A Water Balance Mitigation Fee will be charged to applicants associated with projects that are subject to the Water Balance Program, and who have not elected the Applicant Directed Conservation option or the Supplemental Water Supply Source option (as described in the Water Balance Program application) to comply with the Water Balance Program. Applications for new or expanded water usage with an estimated average daily water demand less than 10,000 gallons per day ("GPD"), shall be charged a Water Balance Mitigation Fee rate of $10 per GPD. For new or expanded water usage equal to or greater than 10,000 GPD, the Water Balance Mitigation Fee rate will be determined by the Company based on the costs of completing water conservation work and the amount of gallons saved associated with said conservation work. In such cases, the Water Balance Mitigation Fee rate will be calculated and determined based on the sum of the actual costs incurred by the Company for completing water conservation work divided by the gallons saved associated with that work ($/GPD). For new or expanded water usage equal to or greater than 10,000 GPD, the Water Balance Mitigation Fee rate may change from time to time based on the actual costs incurred by the Company and the water conservation gallons saved.

[1] Refer to the Water Balance Program application form for more detailed information about the Water Balance Program.

OTHER SERVICES

AVAILABILITY

This rate is available to all classes of customers located on the mains of the Company Subject to the Rules and Regulations of the Company.

Frozen Meters	Actual Cost of Meter	
Meter Test Fees 1" and less	$	50.00
Larger than 1"	$	75.00
Return Check Fee	$	20.00
Seasonal Meter Set & Turn On Fee	$	65.00
Seasonal Meter Removal Fee & Turn Off Fee	$	65.00
Turn-on Fee – Business Hours	$	65.00
After Hours Callout	$	392.00
Non-Payment Reconnect – Business Hours	$	65.00
Non-Payment Reconnect – After Hours	$	392.00
Theft of Service	$	1,000.00
(or triple the amount of damages which ever is greater)		
Cross Connection – One Device Testing	$	75.00
Each Additional	$	35.00

TERMS OF PAYMENT

The Company may render bills on either a quarterly or monthly basis. The above rates are payable within forty-five (45) days of the date of the bill.

The following surcharges are applicable to all metered customers located in the following towns on the mains of the Company within the Company's franchise area: Cohasset, (North Cohasset), Hingham, Hull and Norwell.

SURCHARGE

	Service Charge	
Size of Meter	Per Month	Per Quarter
5/8"	$10.32	$30.96
3/4"	$15.70	$47.10
1"	$25.20	$75.60
1 1/2"	$49.20	$147.60
2"	$78.00	$234.00
3"	$145.00	$435.00
4"	$240.30	$720.90
6"	$479.60	$1,438.80
8"	$766.90	$2,300.70

Consumption Charge per 100 cubic feet for Water Treatment Facility Lease $0.9524

Consumption Charge per 100 cubic feet for Water Treatment Operation and Maintenance $1.0639

TERMS OF PAYMENT

The Company may render bills on either a quarterly or monthly basis. The above rates are payable within forty-five (45) days of the date of the bills.

PURCHASED WATER SURCHARGE

AVAILABILITY

All metered general water service customers falling under the G4 rate designation receiving water service from the Millbury system, the City of Worcester interconnection or a combination of both sources. G4 customers will be billed at the customary G4 rate under the Company's approved tariff schedule for water service received from the Millbury system based on readings of the Millbury system meter.

SURCHARGE AMOUNT

In addition, any G4 customer who receives water supplied from the City of Worcester interconnection will be billed an amount equal to the difference in the cost of water purchased from the City of Worcester and the volumetric rate paid by a G4 customer as per the Company's tariff.

To the extent that multiple customers qualify for the G4 rate, the cost of water service from the City of Worcester interconnection will be allocated among the qualifying customers based upon the respective water usage in the applicable billing period.

The surcharge for each forthcoming year will be calculated on December 1 based on the previous 12 months of applicable actual invoices from the City of Worcester. The surcharge will be charged to the customer in equal installments over the calendar year beginning with the January billing.

TERMS OF PAYMENT

The Company renders bills on a monthly basis. The above rates are payable within forty-five (45) days of the date of the bill.

MAIN REPLACEMENT ADJUSTMENT MECHANISM

I. General Description

A. ***Purpose*:** The Main Replacement Adjustment Mechanism ("MRAM") provides the Company with recovery of project costs to support the accelerated replacement and rehabilitation of water-system infrastructure for the purpose of improving or protecting water quality and reliability of service. With implementation of the MRAM, the Company will recover the fixed costs (depreciation, property taxes, return and income taxes) of main replacements, rehabilitation and any connected service lines, valves and hydrants replaced as a result of the main replacement and placed in service annually, and recorded in the individual accounts noted below. MRAM will be adjusted for an annual reconciliation of prior MRAM amounts. Recovery shall occur after review and approval of the Department of Public Utilities (the "Department").

B. ***Eligible Plant Additions***: Eligible plant additions will consist of the following:

1. (Account 108) Non-revenue producing mains installed as replacements for existing mains that have reached the end of useful life and/or are contributing to safety, reliability, water quality, or other operational issues.

2. (Account 108) Main cleaning and re-lining projects and relocations that are part of a main replacement project.

3. (Account 108) Connected valves that are replaced as they have reached the end of useful life and are part of a main replacement project and/or replaced as they are not operating properly and as a result of the main-replacement projects.

4. (Account 109) Company-segment services installed as in-kind replacements that are part of a main replacement project.

5. (Account 112) Company-owned hydrants installed to replace existing hydrants that have reached the end of useful life and are part of a main replacement project and/or to replace existing hydrants that are not operating properly and are part of a main replacement project.

C. ***Alternative Funding:*** Eligible Plant Additions funded fully through the Water Balance Program ("WBP") and/or System Development Charge ("SDC") revenues are not eligible for recovery through the MRAM. Eligible Plant Additions that are partially funded through the WBP and/or SDC funds remain eligible for partial funding under the MRAM for amounts incremental to costs already recovered through base rates, the WBP and the SDC. To account for Eligible Plant Additions that are partially funded through the WPB and/or SDC revenues, a rate-base offset is included in the MRAM revenue requirement calculation to account for these alternate funding sources. In addition, the Company shall submit a detailed accounting of Eligible Plant Additions funded in part through the WPB or the SDC, and completed during the project construction year. The Company will also include

detailed reports of all projects funded by the WPB and SDC conducted during the year.

II. Computation of the MRAM

A. ***Calculation***: The MRAM Adjustment Factor will become effective September 1, 2019 and will recover the fixed costs of Eligible Plant Additions placed in service between January 1, 2017 and December 31, 2018, which are not included in the Company's rate base. Thereafter, the MRAM adjustment factor will be updated on an annual basis to incorporate recovery of costs associated with Eligible Plant Additions placed in service during the prior calendar year (the "Project Year") as well as a reconciliation of funds collected through the prior year MRAM. The Company will submit an application to the Department each March 1 for the prior calendar year for a rate adjustment effective September 1 of each year.

The fixed costs of Eligible Plant Additions will consist of depreciation, property taxes, after-tax return and income taxes. Additional elements of the calculation will include an overhead and burden adjustment, an operation and maintenance ("O&M") offset, and a reconciliation of prior year revenues, or the MRAM reconciliation. The elements are calculated as follows:

1. ***Depreciation***: Depreciation expense will be calculated by applying the depreciation rates approved in the Company's most recent base-rate proceeding for the respective plant accounts to the original cost of MRAM-Eligible Plant Additions minus the corresponding retirement unit recorded.

2. ***Property Taxes***: Property tax expense on the first year of investment shall be zero. The property tax expense for the second year of investment shall be one half of the Company's annual property tax expense for eligible net plant for the prior MRAM year. Specifically, the property tax expense for the second year of investment shall be calculated first by applying the effective tax rate to the MRAM-eligible net plant as of December 31 of the prior year and taking one half that amount. For subsequent years, property tax expense shall be calculated based on each investment year's MRAM-eligible plant additions.

3. ***After-Tax Return***: The weighted cost of capital will be as approved in the Company's most recent base-rate proceeding, D.P.U. 17-90, or a subsequent docket.

4. ***Income Taxes***: An income tax gross up will be added based on current federal and state tax rates for projects that are not eligible for deduction under the Tangible Property Regulations ("TPR"). TPR projects are treated as flow-through for accounting purposes and as such require no tax gross up.

B. ***MRAM Reconciliation***: Reconciliation of prior year MRAM revenues equivalent to the shortfall or surplus of MRAM revenue actually collected as compared to those authorized by the Department.

C. ***MRAM Adjustment Factor***: The MRAM Adjustment Factor will be expressed as a percentage carried to two decimal places and will be applied to the effective portion of the total amount billed to each customer under the Company's otherwise applicable rates and charges. The MRAM Adjustment Factor will not be applicable to (1) miscellaneous charges, or (2) the surcharge component of bill associated with the Hingham Water Treatment Plant for customers in Hingham, Hull and Cohasset.

Formula: The formula for calculation of the MRAM Adjustment Factor is as follows:

$$MRAM = \frac{(RB \times ATR) + DEP + PT - OH\text{-}OM +/- REC}{BRWR}$$

Where:

RB = Eligible cost to the Company of Eligible Plant Additions, defined as total cost less any portion funded through the WBP and/or the SDC as noted in Section I.C., accumulated depreciation and accumulated deferred income taxes.

ATR = After-tax return rate applicable to Eligible Plant Additions.

DEP = Annual depreciation expense related to Eligible Plant Additions.

PT = Eligible property taxes related to Eligible Plant Additions.

OH = Overhead and burden adjustment.

OM = O&M leak repair offset.

BRWR = Base retail water revenues as approved by the Department in the Company's most recent base-rate proceeding, D.P.U. 17-90, or a subsequent docket.

REC = Reconciliation of prior year MRAM revenues.

III. Customer Safeguards

A. ***Overhead and Burden Adjustments:*** For purposes of MRAM calculations, the actual overheads and burdens shall be reduced to the extent that actual O&M overheads and burdens in a given year are less than the amount included in base rates as determined in the Company's most recent base distribution rate case. Such reduction shall be the difference between the actual O&M overheads and burdens and the amount included in base rates. In addition, the percentage of capitalized overheads and burdens assigned to MRAM projects shall be set equal to the ratio of MRAM to non-MRAM direct costs in any given year. As determined in the Company's most recent base rate proceeding, D.P.U. 17-90, the overhead and burdens baseline is $1,137,601.

B. ***O&M Offset:*** The O&M Offset represents the reduced operating and maintenance expense associated with the elimination of water leaks through MRAM-eligible plant additions. The MRAM Offset applicable each year is determined by multiplying Eligible MRAM Savings by the total miles of non-revenue producing mains installed as replacements for existing mains, in the period January 1 through December 31 of the respective MRAM Project Year. Eligible MRAM Savings are the cumulative reduction in operating and maintenance leak repair expense achieved with the replacement of aging and/or leak-prone main. Eligible MRAM Savings shall be equal to the most recent three-year average of leak repair cost per mile for mains, updated annually in the annual MRAM filed on March 1 of each year. The costs associated with leak repair expense shall be determined in accordance with the Uniform System of Accounts for Water Companies, 220 C.M.R. § 52.00, Operating Expense Accounts, in use during the test year of the most recent base-rate proceeding conducted pursuant to G.L. c. 164, § 94.

C. ***MRAM Annual Earnings Test:*** The Company shall include in its annual March 1 MRAM filing to the Department a calculation of its actual earnings for the prior calendar year. The MRAM will operate only when the Company is earning at or below the authorized return on equity as approved by the Department in the Company's most recent base-rate proceeding, D.P.U. 17-90, or as revised by the Department in a subsequent proceeding. In the event that the Company is earning above its authorized return on equity in a given MRAM Project Year, the Company shall include in its March 1 MRAM filing: (1) a quantification of the MRAM-eligible costs from the MRAM Project Year in which the Company earned in excess of its authorized return on equity; and (2) a proposal regarding the deferral of the recovery of the identified MRAM-eligible costs to the Company's next base distribution rate proceeding.

D. ***Change in Revenue Requirement Cap***: The maximum change in the revenue requirement to be billed in any given year through the Company's MRAM shall not exceed two percent (2 percent) of annual retail water revenues for the prior calendar year. Application of the Revenue Requirement Cap shall not affect the calculation of MRAM recovery, including MRAM Revenue Requirement, in subsequent periods. However, any MRAM recovery approved by the Department in excess of the Revenue RequirementCap may be deferred for recovery in the following year to the extent that

such deferral does not exceed the revenue requirement cap in the relevant MRAM Project Year. The MRAM will also have an additional aggregate cap of 10 percent between general rate cases. The 10 percent revenue cap will be based upon the authorized revenues from the Company's most recent base-rate proceeding less amounts related to miscellaneous charges, surcharges related to the Hingham Water Treatment Plant and any purchased water surcharge revenues. The resultant base revenues will be multiplied by 10 percent to determine the aggregate MRAM revenue cap.

E. ***Threshold Recovery***: The number of miles of main replaced each MRAM Project Year shall meet or exceed a threshold level of 1.25 miles per year. To demonstrate that the threshold is met, the Company shall in each March 1 annual MRAM filing submit a work summary report documenting installations of MRAM-eligible main and showing, through the provision of third-party contractor invoices, that at least 1.25 miles of main were replaced and are in-service as of December 31 of the prior MRAM Project Year. Failure to meet or exceed the threshold level of main replacement of 1.25 miles per MRAM Project Year shall result in the suspension and delay of the recovery of the MRAM-eligible costs for the respective MRAM Project Year in which the threshold is not met until the Company's next base rate proceeding.

F. ***Project Changes***: If, because of changed circumstances or new information, the Company plans to complete projects not included in the MRAM project plan, or to re-prioritize projects contained in the project plan, the Company will notify town representatives in the town where the project is located. As part of the annual March 1 filing, the Company will provide documentation and other necessary support demonstrating the prudence of the MRAM projects completed in the prior MRAM Project Year, as well as documentation supporting changes made to the MRAM project plan.

G. ***New Base Rates***: The MRAM adjustment factor will be reset as of the effective date of new base rates that provide for prospective recovery of the annual capital-additions cost theretofore recovered under the MRAM. Thereafter, only the fixed costs of new eligible plant additions not previously included in the Company's rate base would be reflected in the annual updates of the MRAM.

H. ***Customer Notice***: The MRAM adjustment factor will be shown as a separate line item on customer bills. Customers shall be notified of changes in the MRAM by including appropriate information on the first bill issued by the Company following any change allowed by the Department.

IV. Annual Report/Stakeholder Input

On March 1 of each year, as part of the Company's annual filing to the Department to implement the MRAM factor on September 1, the Company will submit a plan that lists the MRAM-Eligible Plant Additions that it plans to construct in the upcoming three years. The plan will include a description of each project, the value that completing the project will provide to customers, the estimated cost, and the proposed year of completion. The plan will also include the

computation of the MRAM adjustment factor that would result from the completion of the MRAM-Eligible Plant Additions based on the estimated cost of those plant additions, along with customer bill impacts. Prior to the March 1 filing, the Company will consult with town representatives in the towns served by the Company to review the construction plan and to obtain input and coordination on the execution and/or prioritization of those projects. At a minimum, to allow for adequate time to coordinate with town representatives, the Company shall provide a preliminary copy of the plan to the towns no later than 90 days before submitting the plan to the Department. The Company will provide notice to the towns of all filings to the Department relating to the MRAM.