

**REPORTS OF THE OFFICERS
OF THE
DENNIS WATER DISTRICT**



**FOR THE
CALENDAR AND FISCAL YEAR
2019**

DISTRICT OFFICIALS 2019

ELECTED OFFICIALS

WATER COMMISSIONERS

Term Expires

Paul F. Prue, <i>Chairman</i> , Dennis	2020
Peter L. McDowell, <i>Vice Chair</i> , Dennis	2021
Alan Tuttle, South Dennis	2022

MODERATOR

William E. Crowell, Jr., East Dennis	2021
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APPOINTED BY MODERATOR

FINANCE COMMITTEE

Greg Stone, <i>Chairman</i>	2022
Faith Hallett	2021
Robert Perry	2020
James Plath	2020
Richard Roy	2022

EMPLOYEES APPOINTED BY WATER COMMISSIONERS

SUPERINTENDENT

David Larkowski

CLERK & TREASURER

Sheryl A McMahon

ASSISTANT SUPERINTENDENT

James Ritchie

STAFF APPOINTED BY MANAGEMENT

Administration

Emily Finnegan
Louise McInnis
Catherine Mullikin
Erica Spuria

Water Works & Production

Peter Alex
Robert Barboza
Andrew Carroll
Kenneth Davis
Eric DiRusso
Stephan Drozell
David Griffin
Scott Hollis
Joshua Kelley
Joseph Kraul
Profirio Pina, Jr.
Brian Saunders
Devin Sullivan (active deployment)

COUNSEL

Pamela B Marsh, Esq. and Bruce Gilmore, Esq.

CONSULTING ENGINEERS

Comprehensive Environmental, Inc.

REPORT OF THE BOARD OF WATER COMMISSIONERS 2019

Early in January, a majority of the Board entered into negotiations with the owner of a three parcels of land off Hokum Rock Road in East Dennis. The lots, containing slightly more than four acres, lies within the Zone II for Well 18. The property is located within a General Commercial District and is just 430 feet from the pumping station. This property had been identified as an important acquisition for the District in terms of watershed protection for literally decades. In September, the Board reached an agreement with the owner. The voters authorized the purchase and borrowing authorization of \$1,250,000 at a Special District Meeting held October 24. The Board wishes to extend it's appreciation for the amicable and equitable agreement reached with the owner for this important acquisition.

As is customary, the Board began its budget preparation cycle in January. As projected operating expenses and capital needs were reviewed it became evident that estimated revenues would not meet the anticipated budget total. The Board agreed to recommend to the District Finance Committee and the voters to do a one-time transfer of \$49,343 from "Free Cash" to balance the budget for Fiscal Year 2020 with the understanding that the Board will likely have to implement a water rate increase for the following year.

With the completion of the new West Dennis Tank and the demolition and removal of the old elevated tank last year the Board reviewed a comprehensive inspection report of the six-million gallon Route 134 Tank. The cost estimate at that time for power washing, painting interior and exterior along with any necessary repairs, was originally between \$1.2 and 1.4 million and a borrowing may be necessary to complete the work. The Board authorized the Superintendent to proceed with developing a scope of work with the intent of undertaking the project in the Fall of 2020 or the Spring of 2021.

The Board considers the quality of water the District provides as its absolute priority. Late in the prior year the Board authorized participation in a free sampling program sponsored by the Mass. Department of Agricultural Resources (MDAR) due to the public attention being given to the use of herbicides in the power-line right of way owned by Eversource and the potential for contamination of the drinking water supply. The Board was pleased to learn in the Spring of this year that none of the herbicide chemicals that Eversource uses were not found in Dennis' wells. What was detected at two wells was Imidacloprid, at .05 and .03 parts per billion (ppb). Imidacloprid is a commonly used insecticide for agricultural pest control as well as on domestic pets to control flees. The human health benchmark limit is 360 ppb. Additional testing was undertaken by MDAR for the rest of the District's supply wells and in the distribution system at no cost to the District. The Board is pleased to report that the detections of Imidacloprid is extremely low and sporadic.

The Board received a copy of the sanitary survey report as prepared by Mass. Department of Environmental Protection. The report is an on-site inspection of wells, treatment stations and administrative records. The report results clearly demonstrated how well run and maintained are the District operations, the high quality of water provided to its customers and its compliance with reporting standards. The Board extends it compliments and appreciation to David Larkowski, Superintendent and to staff that continue to exemplify the very best example of operating a public water supply.

During the year, the Water Commissioners reviewed the issue of how to fill an unexpected vacancy on the Board. A formal review by legal counsel advised that unless special legislation was passed to change the District's enabling act, the only legal means of filling a vacancy was for the Board to call for a special election or wait until the next annual municipal election.

In preparation for the next fiscal year budget, the Board authorized a third-party independent review of the wages and benefits of salaried and hourly District employees. The findings were received by the Board and are anticipated to be utilized in the development of the FY 2021 payroll. The Board thanks Mr. Robert Lawton, Jr. who compiled and reported the study.

Again, the Board wishes to express its appreciation to the employees of the District who serve the community with professionalism and dedication and is a department to be emulated by other water purveyors.

BOARD OF WATER COMMISSIONERS

Paul F. Prue, *Chairman*

Peter L. McDowell, *Vice Chair*

Alan Tuttle

MINUTES OF THE ANNUAL DISTRICT MEETING HELD ON APRIL 24, 2019

The Moderator, William E. Crowell, Jr., having declared a quorum of at least 25 voters present, called the meeting to order at 7:02 PM at the Dennis Senior Center, 1045 Route 134, South Dennis. The pledge of allegiance was recited. The Moderator then introduced the Board of Water Commissioners and District Finance Committee.

The Moderator then proceeded with the reading of the warrant. On a motion made by Peter McDowell, and duly seconded, those present ***VOTED: to waive the balance of the formal reading of the Warrant.***

The Moderator reviewed the rules for conduct of the meeting and for the benefit of those in attendance and he noted that the Finance Committee recommendations are printed in the warrant with the exception of Article 1. He then called for the recommendation of the Finance Committee which recommended acceptance of the Reports. Mr. Moderator then called for a motions for the following articles:

ARTICLE 1. UNANIMOUSLY VOTED: To accept the Reports of the District Officers for the Fiscal and Calendar Year 2018 as printed, with the exception of printer's errors.

ARTICLE 2. UNANIMOUSLY VOTED: To transfer and appropriate the sum of \$7,956 from the General Water District Revenues of the Fiscal Year 2020 for the salaries of the elected officials as follows:

*3 Water Commissioners at \$2,550 each
1 Moderator at \$306*

ARTICLE 3. UNANIMOUSLY VOTED: To transfer and appropriate **\$4,392,427** from the Fiscal Year 2020 General Water District Revenues and to transfer and appropriate \$49,343 from Free Cash for a total of \$4,441,770 for the Operating and Maintenance Expenses commencing July 1, 2019.

ARTICLE 4. UNANIMOUSLY VOTED: To transfer and appropriate the sum of \$495,000 from the Free Cash for the for the following Capital Appropriations:

Cleaning Wells & Pump Repairs	100,000
Tank Power Washing & Maintenance	200,000
New Truck w/Equipment	90,000
Miscellaneous Equipment	10,000
SCADA - Replace Radios	45,000
Green Sand Replacement	50,000

ARTICLE 5: UNANIMOUSLY VOTED: To transfer and appropriate \$68,657 from Free Cash the Other Post-Employment Benefits Liability Trust Fund in accordance with Massachusetts General Law Chapter 32B, Section 20.

Moderator Crowell thanked the voters for attending. On a motion made, and duly seconded, the meeting was adjourned by UNANIMOUS VOTE at 7:10 PM.

Respectfully submitted,

Sheryl A McMahon
District Clerk

MINUTES OF THE SPECIAL DISTRICT MEETING

HELD ON OCTOBER 24, 2019

The Moderator, William E. Crowell, Jr., having declared a quorum of at least 25 voters present, called the meeting to order at 6:07 PM. The pledge of allegiance was recited. The Moderator then introduced the Board of Water Commissioners.

The Moderator then proceeded with the reading of the warrant. On a motion made by Greg Stone, and duly seconded, those present VOTED: to waive the balance of the formal reading of the Warrant.

The Moderator recognized Greg Stone, Chairman of the District Finance Committee for the recommendation on the article. Chairman Stone advised that the Finance Committee by unanimous vote recommended the passing of the article. Mr. Moderator then called for a motion on the article:

ARTICLE 1: UNANIMOUSLY VOTED: That the Board of Water Commissioners is authorized to acquire by gift, purchase or eminent domain, for watershed conservation protection and pursuant to G. L. c. 40, §3A, the fee interest in three (3) parcels of real property described as follows:

1) First Acquisition: A parcel of land located in the Town of Dennis, County of Barnstable, Massachusetts, containing approximately 1.9 +/- acres, known and numbered as **0 Off Hokum Rock Road**, as more particularly described in a deed recorded in the Barnstable County Registry of Deeds in Book 20912, Page 19, and as also shown on a plan entitled "Sketch Plan, Showing Conveyance Parcels" located at Hokum Rock Road, East Dennis, MA prepared for Town of Dennis Water Dept./PLM LLC. Scale 1"=60', June 3, 2019, Down Cape Engineering Inc., which plan is on file with the District Clerk, 80 Old Bass River Road, South Dennis, MA.

2) Second Acquisition: Two (2) certain parcels of land located in the Town of Dennis, County of Barnstable, Massachusetts currently known and numbered as: (1) **26 Amber Way**, approximately 1.2 +/- Acres, as more particularly described in Document No. 1,025,235 on Certificate of Title No. 179188 recorded in the Barnstable County Registry District of the Land Court and is shown as Lot 3 on Land Court Plan 42092A. Said parcel to be reconfigured before purchase as "**Lot 3A**" also shown on a plan entitled "Sketch Plan, Showing Conveyance Parcels" located at Hokum Rock Road, East Dennis, MA prepared for the Town of Dennis Water Dept./PLM LLC., Scale 1"=60', June 3, 2019, Down Cape Engineering, Inc.; and (2) **10 Amber Way**, approximately 1.3 +/- Acres (to be reconfigured and reduced to approximately 1.1 +/- Acres before acquisition) as more specifically described in Document No. 1,025,235 on Certificate of Title No. 17918 recorded in the Barnstable County Registry District of the Land Court and is shown as Lot 2 on Land Court Plan 42092A. Said parcel to be reconfigured before acquisition as "**Lot 2A**" also shown on a plan entitled "Sketch Plan Showing Conveyance Parcels" located at Hokum Rock Road, East Dennis, MA prepared for the Town of Dennis Water Dept./PLM, LLC., Scale 1"=60', June 3, 2019, Down Cape Engineering, Inc., which plan is on file with the District Clerk, 80 Old Bass River Road, South Dennis, MA.

on such terms and conditions as the Board of Water Commissioners deems in the best interests of the District, said property to be under the care, custody, management and control of the Board of Water Commissioners; that \$1,250,000 is appropriated to pay costs of purchasing the land described above, including the payment of all other costs incidental or related thereto and to meet said appropriation, the Treasurer with the approval of the Board of Water Commissioners, is authorized to borrow said amount for a period of 10 years, exclusive of the term of any temporary loans issued in anticipation of the issuance permanent bonds, under G. L. c. 44 §7(1) or any other enabling authority, and issue bonds and notes therefor; that any premium received by the District upon the sale of any bonds or notes approved by this vote, less any such premium applied to the payment of the costs of issuance of such bonds or notes, may be applied to the payment of costs approved by this vote in accordance with G. L. c. 44, §20, thereby reducing the amount authorized to be borrowed to pay such costs by a like amount; and further, the Board of Water Commissioners is authorized to enter into all agreements and execute any and all instruments as may be necessary or convenient on behalf of the District to effect said acquisition.

Moderator Crowell thanked the voters for attending. On a motion made, and duly seconded, the meeting was adjourned at 6:16 PM.

Respectfully submitted,

Sheryl A McMahon

**DENNIS WATER DISTRICT
BALANCE SHEET AS OF
JUNE 30, 2019**

ASSETS

Current Assets

Checking/Savings

1020 · Petty Cash Advance	500.00
1040 · Cash - Unrestricted	
1040-01 · Coop Bank of Cape Cod-M Market	629,547.50
1040-02 · TD Bank Money Market	13,603.62
1040-03 · Unibank Auto Cash	58,906.45
1040-04 · Peoples United Bank	493,310.16
1040-05 · East Boston Savings Bank	457,114.69
1040-06 · Harbor One Money Market	235,788.94
1040-07 · Citizens Bank Money Market	22,356.35
1040-10 · Citizens Bank - Checking	12,032.32
1040-11 · Coop Bank of Cape Cod-Checking	-39,988.98
1040-12 · Unipay - On Line	3,595.55
1040-13 · Cape Cod 5 Money Market	107,028.01
1040-14 · Unibank Remote Deposit	33,266.71
1040-20 · MMDT - Cash Portfolio	680,330.78
Total 1040 · Cash - Unrestricted	2,706,892.10
1050 · Cash - Restricted	
1050-05 · Rockland Trust - OPEB Trust	213,499.92
1050-11 · Cape Cod 5 - Stabilization	202,523.47
Total 1050 · Cash - Restricted	416,023.39
1120 · Investments - Unrestricted	
1120-11 · MMDT Bond Fund	193,688.35
Total 1120 · Investments - Unrestricted	193,688.35
Total Checking/Savings	3,317,103.84

Accounts Receivable

1400 · Accounts Receivable	
1410 · Water Receivables	66,456.80
1415 · Water Liens Receivable	
1415-17 · FY 2017 Water Liens	2,395.26
1415-18 · FY 2018 Water Liens	1,635.03
1415-19 · FY 2019 Water Liens	4,630.08
Total 1415 · Water Liens Receivable	8,660.37
1450 · Water Liens In Tax Title	4,773.46
Total 1400 · Accounts Receivable	79,890.63
1500 · Tax Receivables	
1750 · Taxes In Litigation	473.71
Total 1500 · Tax Receivables	473.71
Total Accounts Receivable	80,364.34

Total Current Assets 3,397,468.18

Fixed Assets

1600 · Capital Assets

1605 · Vehicles	183,264.66
1610 · Land	12,538,640.80
1620 · Buildings	1,821,834.00
1630 · Equipment	2,604,915.50
1640 · General Infrastructure	37,406,195.63
1650 · Construction In Progress	3,165,325.57
1670 · Accumulated Depreciation	-15,254,169.00
Total 1600 · Capital Assets	42,466,007.16

Total Fixed Assets 42,466,007.16

Other Assets

1992 · Provided for Sick Buy Back	125,211.91
1996 · Provided for Payment of Bonds	4,568,661.40
Total Other Assets	4,693,873.31

TOTAL ASSETS 50,557,348.65

Balance Sheet Continued...

LIABILITIES & EQUITY

Liabilities

Current Liabilities

Other Current Liabilities

2100 - Payroll Liabilities

2100-08 - APLAC NY Short Term Disability	136.00
2100-11 - APLAC NE Accident Insurance	511.72
2100-12 - APLAC NE Short Term Disability	297.96
2100-13 - APLAC NE Cancer Insurance	83.52
2100-14 - APLAC NE Life Insurance	166.92
2100-15 - Eye-Med	14.52
2100-90 - Health Insurance - Active	7,777.17
2100-51 - Dental Insurance - Active	291.84
2100-52 - Life Insurance - Active	16.56
2100-54 - Dental Insurance - Retirees	163.04
2100-55 - Life Insurance - Retirees	1.48

Total 2100 - Payroll Liabilities 9,457.77

2300 - Revenue Reserved Until Collected

2300-10 - Water Revenue Reserved	68,456.80
2300-15 - Water Lien Revenue Reserved	11,431.83
2300-20 - Deferred Tax Revenue	473.71

Total 2300 - Revenue Reserved Until Collected 80,362.34

3179 - FY 2019 Accruals

3179-01 - Accrued Payroll	27,496.56
3179-02 - Accrued Accts Payable	10,115.00

Total 3179 - FY 2019 Accruals 37,611.56

Total Other Current Liabilities

127,431.67

Total Current Liabilities

127,431.67

Long Term Liabilities

3410 - Net Pension Liability 2,946,516.00

3420 - Net OPEB Obligation 1,407,835.00

3430 - Long Term Bonds and Note Payable

3430-01 - Land for Watershed Protection 660,000.00

3430-02 - Water Treatment Facilities 3,908,661.40

Total 3430 - Long Term Bonds and Note Payable 4,568,661.40

3440 - Net Sick Buy-Back Liability 66,116.95

Total Long Term Liabilities

8,991,131.35

Total Liabilities

9,118,567.02

Equity

3500 - Special Reserve Funds

3500-01 - Reserve for Petty Cash Advance 500.00

3500-02 - Reserve for Mass Sales Tax 1,239.80

3500-03 - Reserve for Sick Leave Buy Back 57,092.96

3500-04 - Reserve - Safe Drink Water Act 13,494.78

Total 3500 - Special Reserve Funds 72,327.49

3575 - Unrealized Gains/Losses

1,123.79

3576 - Equity

6,884,706.85

3580 - Invested in Capital Assets

31,284,040.27

3590 - Unassigned Fund Balance

364,392.43

3591 - Designated Fund Balance

3591-02 - Land Acquisition Expenses 3,206.01

3591-04 - Leak Detection Survey 4,807.39

3591-05 - Billing Software & Constr Uoqrd 30,000.00

3591-06 - Water Withdrawal Permit Renewal 1,856.92

3591-07 - Asbuilt Program 17,248.52

3591-08 - Security Program 29,372.63

3591-09 - Tank Repairs & Power Washing 304,031.74

3591-10 - Power Line Maintenance 27,706.27

3591-11 - SCADA Radio Upgrades 7,007.44

3591-12 - Miscellaneous Equipment-4/23/19 8,390.93

Total 3591 - Designated Fund Balance 438,226.85

3592 - Capital Project Fund

3592-01 - Cleaning Wells & Pump Repairs 268,190.74

3592-02 - Water Dist System Maint & Ext 34,2510.88

3592-06 - New Tank West Derrins 198,699.33

3592-07 - Green Sand Replacement 375,000.00

Total 3592 - Capital Project Fund 1,184,400.75

3595 - Capital Equipment Fund

3595-04 - Miscellaneous Equipment 4/24/18 1,931.43

3595-06 - New Trucks 4/23/19 44,083.00

Total 3595 - Capital Equipment Fund 46,014.43

3600 - Stabilization Fund

202,521.47

3700 - OPEB Liability Trust Fund

21,3499.92

3818 - Revenue Control FY 2020

-4,400,381.00

3888 - Appropriator Control FY 2020

4,449,776.00

Net Income

897,980.38

Total Equity

41,438,781.63

TOTAL LIABILITIES & EQUITY

90,557,348.65

**DENNIS WATER DISTRICT
INCOME & EXPENSE**

July 1, 2018 - June 30, 2019

Ordinary Income/Expense

Income	
3900 - Estimated Receipts	4,521,891.42
4240 - Income	
4242 - Interest on Deposits	41,175.79
4640 - Tank Rental Fees	325,085.17
4645 - Solar Revenue	120,262.95
4840 - Miscellaneous Receipts	
4840-01 - Scrap Metal Sold	6,398.00
4840-02 - Penalties & Interest	2,321.05
4840-03 - Surplus Equipment	10,115.00
4840-05 - Snow Plow Reimbursement	1,446.37
4840-06 - Medicare Part D Reimbursement	16,738.43
4840-99 - Other	0.99
Total 4840 - Miscellaneous Receipts	<u>37,219.84</u>
Total 4240 - Income	<u>525,885.25</u>
Total Income	<u>5,047,776.67</u>
	5,047,776.67
Expense	
5100-30 - Elected Officials Salaries	7,998.00
5100-40 - Principal on Debt	555,886.14
5100-50 - Interest and Admin Fees on Debt	119,237.00
5100-60 - Independent Financial Reports	13,750.00
5100-70 - Insurance Expense	121,234.00
5100-80 - Household Hazardous Waste Day	10,000.00
5100-90 - Water Services	<u>99,443.13</u>
Total 5100 - Operating & Maintenance Budget	<u>3,978,191.16</u>
5100 - Appropriated Expense	<u>45,347.13</u>
Total Expense	<u>4,023,538.29</u>
Net Ordinary Income	<u>1,024,238.38</u>

Other Expense

5800 - Continuing Appropriations	
5840 - Cleaning Wells & Pump Repairs	
5840-09 - Well 9	5,275.00
5840-14 - Well 14	895.95
5840-15 - Well 15	21,044.85
5840-18 - Well 18	26,808.00
5840 - Cleaning Wells & Pump Repairs - Other	<u>-56,623.80</u>
Total 5840 - Cleaning Wells & Pump Repairs	<u>0.00</u>
5885 - Water Dist System Maint. & Ext.	
5885-01 - Materials	89,912.82
5885-02 - Contractual Services	41,291.10
5885-03 - Police Detail	1,479.00
5885-09 - Miscellaneous	259.12
5885 - Water Dist System Maint. & Ext. - Other	<u>191,112.96</u>
Total 5885 - Water Dist System Maint. & Ext.	<u>326,056.00</u>
Total 5800 - Continuing Appropriations	<u>326,056.00</u>
5800 - Special Appropriations	
5860 - New Tank West Dennis	
5860-01 - Engineering	17,885.00
5860-02 - Contractual Services	213,834.25
5860-03 - Materials	3,055.65
5860 - New Tank West Dennis - Other	<u>-234,574.90</u>
Total 5860 - New Tank West Dennis	<u>0.00</u>
5865 - Tank Repairs & Power Washing	
5865-10 - Six Million Tank	
5865-11 - Wages	1,714.23
5865-10 - Six Million Tank - Other	<u>4,794.95</u>
Total 5865-10 - Six Million Tank	<u>6,509.18</u>
5865-20 - Old Bass River Tank	
5865-22 - Materials	<u>102.58</u>
Total 5865-20 - Old Bass River Tank	<u>102.58</u>
5865-30 - Holcomb Rock Tank	
5865-32 - Materials	<u>380.20</u>
Total 5865-30 - Holcomb Rock Tank	<u>380.20</u>
5865-50 - Rose L34	
5865-51 - Materials	88.30
5865-52 - Contractual Services	<u>3,400.00</u>
Total 5865-50 - Rose L34	<u>3,488.30</u>
5865-90 - Tank Maintenance - General	436.07
5865 - Tank Repairs & Power Washing - Other	<u>-11,116.33</u>
Total 5865 - Tank Repairs & Power Washing	<u>0.00</u>
Total 5800 - Special Appropriations	<u>0.00</u>
Total Other Expense	<u>326,056.00</u>
Net Other Income	<u>-326,056.00</u>
Net Income	<u>697,980.38</u>

**DENNIS WATER DISTRICT
FISCAL YEAR 2019 PAYROLL**

	POSITION	REGULAR WAGES	OVERTIME W/O Accruals	OVERTIME	HOLIDAY OVERTIME	DEFERRED COMPENSATION	TOTAL
Alex Peter W	Meter Technician I	52,087.20		0.00		1,282.00	53,369.20
Barboza Robert J	Backhoe/Foreman	79,268.00	20,588.52	20,537.80	4,660.80	1,300.00	105,766.60
Carroll Andrew W	Meter Tech I/Laborer	52,368.81	632.00	632.00		1,300.00	54,300.81
Davis Kenneth J	Station Maintenance III	65,217.67	8,429.78	8,246.34	710.60	780.00	74,954.61
DiRusso Eric G	Meter Tech I/Laborer	43,868.80	2,564.74	2,564.74	332.16	1,300.00	48,065.70
Drozell Stephan	Meter Tech I	43,804.70	1,822.39	1,822.39	162.64	1,325.00	47,114.73
Finnegan Emily	Backflow Administration	18,120.31		0.00		585.00	18,705.31
Griffin David W	System Maintenance III	70,122.72	35,141.82	36,564.39	3,362.88	1,325.00	111,374.99
Hollis Scott	System Maint I/Mechanic	64,145.92	4,238.17	4,485.45	256.41	1,325.00	70,212.78
Kelley Joshua	System Maintenance II	44,454.43	1,647.42	1,647.42	169.44	1,300.00	47,571.29
Kraul Joseph D	Electrician	49,279.80	1,615.59	1,615.59		819.00	51,714.39
Larkowski David A	Superintendent	123,505.69	9,233.82	9,233.82		1,300.00	134,039.51
McInnis Louise S	Accts Pay/Billing Office Sprvsr	50,314.00		0.00		1,300.00	51,614.00
McMahon Sheryl A	Clerk & Treasurer	121,809.76		0.00		1,300.00	123,109.76
Mullikin, Catherine M	Accts Rec/Payroll	39,568.59		0.00		1,300.00	40,868.59
Pina, Jr Profirio J	Backhoe/Foreman	74,470.40	974.95	1,027.65		1,300.00	76,798.05
Ritchie James E	Assistant Superintendent	100,403.98	18,284.22	17,976.54	733.92	1,300.00	120,414.44
Saunders Brian J	Station Maintenance III Sprvsr	83,137.64	20,088.63	20,642.76	390.50	1,300.00	105,470.90
Spuria Erica	Meter Services Coordinator	39,945.02		0.00		520.00	40,465.02
Sullivan, Devin J	Laborer	31,538.08	229.68	229.68			31,767.76
Totals		1,247,431.52	125,491.73	127,226.57	10,779.35	22,261.00	1,407,698.44
ELECTED OFFICIALS							
Crowell, Jr William E	Moderator	306.00					306.00
McDowell Peter L	Water Commission, Vice Chair	2,550.00					2,550.00
Prue Paul F	Water Commission Chairman	2,550.00					2,550.00
Tuttle Alan	Water Commissioner	2,550.00					2,550.00
		7,956.00					7,956.00

REPORT OF THE SUPERINTENDENT

2019

Two Thousand Nineteen was another typical year at the District with plenty to do. It began in January with a decent cold snap and multiple water main breaks. Not exactly the way one would want to start the year off. With four water tanks it seems that there is at least one of them that needs attention to one degree or another. This year the Hokum Rock Tank was drained and cleaned and was found to be in good condition. The six-million gallon Route 134 was drained for an interior inspection and in combination with a previous exterior inspection in 2018 a comprehensive report recommend that it was time for repairs. It was further recommended that, to make the overall project more cost-effective and minimize downtime, combining the interior and exterior work into one project would still cost over \$1 million. The project will be proposed in the 2021 Fiscal Budget.

Annual well cleaning and pump work this year included the full pump replacement Well 18 and the cleaning of Well 15 which is a regular candidate for cleaning due to iron build-up on the well screen. The original capacity of Well 15 is 38 gallons of water per foot of drawdown (gpf). In a year's worth of pumping that capacity falls by 50 per cent. This year it was found to be at 17 gpf or off by 55%. In order to maintain a ready and functioning fleet of vehicles, the District purchased and replaced two pickup trucks this year. In the past, trucks were trade-ins which reduced the purchase cost. However, in recent years the used trucks have been sold on on-line auctions. This has yielded a far better return to the District, by thousands of dollars, than had they been traded in. This serves the District's well and will continue into the foreseeable future.

Maintenance of the distribution system is a daily chore. Along with planned gate valve and hydrant replacements, an old 2-in main on Shirley Avenue ended up being an emergency upgrade in the spring. Being in a predominantly seasonally occupied area, homes on that road began to experience low pressure as more and more people returned for the season and used water. In an effort to solve the problem before all 32 homes were occupied for the season, District water works personnel upgraded 1,000 feet of 2-inch pipe to 6-inch and reconnected all the homes to the new main.

Tuesday, July 23 seemed like a most pleasant and normal summer day until about lunchtime when the 2019 Cape Cod Tornadoes rolled through the area. The District did not suffer too much of an impact as the backup power generators ran where power outages affected our pumping and treatment stations. However, the District does experience lightning damage typical with summer storms and there was some to pumping equipment during this extraordinary event. Most of this equipment was back up and running within a day with parts and equipment kept in inventory just for such emergencies.

Water sampling investigations at four wells in the immediate vicinity of the powerline right-of-way uncovered a minute detection of Imidacloprid at two of them. The sampling was to see if vegetation treatments along the powerlines could be detected in the groundwater. None of the treatments used by Eversource were detected, however, Imidacloprid was. It turns out it is a commonly used household product. The detection was .05 parts per billion compared to a health impact limit set at 360 ppb. It is actually not currently regulated for drinking water. After consultations with the Department of Environmental Protection, and additional testing in the distribution system, of which there was no detection, it was determined there was no hazard or risk and further sampling was ended.

In November the year, the District closed on the first phase of a two-phase watershed acquisition of just over four acres of land. The first purchase was a 1.93 acre lot of vacant land just off of Hokum Rock Road. The entire purchase is to be slightly more than four acres in an active sand pit in close proximity to a drinking water well. These lots were identified more than twenty years ago by the District as important property to protect became if and when it ever became available. As Superintendent, I facilitated the negotiations on behalf of the Board and wish to take this opportunity to express my appreciation to the owner for his cooperation during the process and in ultimately agreeing to sell the property to the District. The second phase will close in early 2020.

Other notable items were the lease extensions for two T-Mobil cell phone antenna contracts for an additional twenty years, three successful Household Hazardous Waste Collection Days held by the District and the Town, the District pumped 1,100,627,400 gallons of water during a year in which a total of 63.5 inches of rainfall was recorded and was 11 inches above normal.

Respectfully submitted,

David Larkowski
Superintendent

Pumping Equipment Operations 2019

	<i># of days</i>		<i># of days</i>
Main Station – Old Bass River Road 5 submersible electric pumps with a total capacity of 700 gpm pump	128	Sub-Station 12 – Old Chatham Road 75 hp electric motor w/700 gpm pump	207
Sub-Station 1 – Old Chatham Road 40 hp electric motor w/350 gpm pump	128	Sub-Station 13 – Center Street Decommissioned December 1999	
Sub-Station 2 – Old Chatham Road 20 hp electric motor w/200 gpm pump	128	Sub-Station 14 – Baker’s Pond Road 60 hp electric motor w/ 450 gpm pump	110
Sub-Station 3 – Old Chatham Road 20 hp electric motor w/250 gpm pump	128	Sub-Station 15 – Baker’s Pond Road 75 hp electric motor w/700 gpm pump 70kW generator	203 48 hrs
Sub-Station 4 – Old Bass River Road 30 hp electric motor w/350 gpm pump 85kW generator	135 48 hrs	Sub-Station 16 – Timber Lane 40 hp electric motor w/ 450 gpm pump	196
Sub-Station 5 – Route 134 30 hp electric motor w/450 gpm pump	203	Sub-Station 18 – Hokum Rock Road 75 hp electric motor w/ 700 gpm pump 70kW generator	186 48 hrs
Sub-Station 6 – Old Bass River Road 30 hp electric motor w/150 gpm pump	139	Sub-Station 19 – Setucket Road 75 hp electric motor w/700 gpm pump 75kW generator	219 42 hrs
Sub-Station 7 – Airline Road 40 hp electric motor w/450 gpm pump	175	Sub-Station 20 – Setucket Road 75 hp electric motor w/700 gpm pump 70kW generator	259 36 hrs
Sub-Station 8 – Airline Road 40 hp electric motor w/350 gpm pump	175	Sub-Station 21 – Route 134 75 hp electric motor w/700 gpm pump 80 kW generator	196 30 hrs
Sub-Station 9 – Grassy Pond Drive 75 hp electric motor w/650 gpm pump 75kW generator	199 46 hrs	Sub-Station 22– Route 134 75 hp electric motor w/700 gpm pump	202
Sub-Station 10 – Airline Road 75 hp electric motor w/700 gpm pump	128	Sub-Station 23– Old Chatham Road 75 hp electric motor w/700 gpm pump 85kW generator	138 28 hrs
Sub-Station 11 – Old Bass River Road 60 hp electric motor w/500 gpm pump	210	Booster Station – Route 134 2 – 345 hp caterpillar diesel engines w/3,500 gpm pump on each motor (manual)	0 hrs

VEHICLE & EQUIPMENT OPERATIONS 2019

Truck #		Miles
2	2008 Ford Expedition (sold on-line auction)	3,242
2	2020 Chevrolet 1500 ½-ton pickup	9,173
4	2014 GMC 2500 (sold on-line auction)	3,768
4	2019 Chevrolet 2500 ¾-ton pickup	9,663
6	2015 Chevrolet ¾-ton pickup	8,297
8	2013 GMC 1500 ½-ton pickup	8,383
10	2017 Chevrolet ½-ton pickup	11,749
12	2017 Chevrolet 1-ton dump truck	4,496
14	2015 Chevrolet ½-ton pickup	4,098
16	2016 Chevrolet utility van	8,536
18	2007 Chevrolet ½-ton pickup	7,224
20	2002 Chevrolet dump truck	455
22	1999 GMC dump truck	1,671
24	2016 Chevrolet 2500 utility truck	10,809
26	2012 Chevrolet 1500 ½-ton pickup	3,779
28	2018 Chevrolet 2500 utility truck	8,110
30	2017 Chevrolet Citi Van	10,304
32	2016 Chevrolet 3500 utility truck	8,640
<i>TOTAL MILEAGE</i>		<i>122,397</i>

	Equipment	Hours
1993	Gravely	30
2016	Sullivan Air Compressor	73
2000	Ingersol Rand Air Compressor	31
2000	Kobelco Excavator	82
2016	John Deere Backhoe Loader	91
2014	John Deere Backhoe Loader	71
2015	John Deere Mini-excavator 35G	245
2017	John Deere Mini-excavator 50G	294
2005	Gravely	131
2004	Mower	63
2004	Roller	40
2000	100kw Generator Set #1	24
2000	100kw Generator Set #2	24

CUSTOMER TRANSACTIONS – FY 2019

Meter Replacements	524
Seasonal Meter Removal/Re-install	3,278
Final Readings	514
Backflow Prevention Device Tests	162
Demand Letters Processed	170
Demand Shut-Off Processed	77
Frozen Meters	78
Meter Tampering	0
Service Calls/Repairs	450
Fire Sprinkler Standby	120
Renewal/Relocation and Cut-Off of Water Services	109
Payments Processed	30,986

NEW SERVICES FY 2019

Dennis	17
East Dennis	4
Dennisport	22
West Dennis	19
South Dennis	23
<i>TOTAL</i>	85

WATER PUMPED IN 2019 In Gallons

January	41,457,300
February	38,450,500
March	44,446,500
April	56,976,700
May	80,941,800
June	133,995,600
July	201,328,600
August	197,332,000
September	140,655,700
October	76,947,900
November	45,704,400
December	42,390,400
<i>Total</i>	<i>1,100,627,400</i>

MAIN LINE GATES & HYDRANTS
as of December 31, 2019

Year	20"	16"	12"	10"	8"	6"	2"	Total	Hydrants
All	14	20	207	144	619	2560	163	3727	1599
2009					1	5		6	2
2010	<i>There were no items added in calendar 2010</i>								
2011					1	1		2	2
2012			7		1	3		11	2
2013			2			8	-1	9	4
2014					2			2	2
2015			3			10		13	2
2016			2			2		4	1
2017						6	-4	2	2
2018			1		1	5		7	3
2019				8	4	15	-1	26	11
Totals	14	20	222	152	629	2615	157	3794	1630

WATER MAINS
as of December 31, 2019

Year	24"	16"	12"	10"	8"	6"	4"	2"	Total
Prev	15,998	15,882	149,280	91,894	430,352	475,969	373	60,330	1,240,078
2009					1,132	740		-306	1,566
2010	<i>There were no items added in calendar 2010</i>								
2011					240	15			255
2012			5,399		40	463			5,902
2013			3,161		1,953	2,195		-450	6,859
2014		35			1,150				1,185
2015			1,492			-615			877
2016						450			450
2017						1,141		-955	186
2018			196			1,066			1,262
2019					1,320	2,472		-1,000	2,792
	15,998	15,917	159,528	91,894	436,187	483,896	373	57,619	1,261,412

238.90 Miles of Water Main
All Cast/Ductile Iron - Cement Lined Pipe

PRODUCTION DEMAND STATISTICS

Calendar Year 2019

Largest Day	August 4	9,716,700
Smallest Day	December 9	756,000
2 nd Largest Day	July 14	9,330,800
2 nd Smallest Day	January 10	938,000
Largest Week	August 4 - 10	45,858,100
Smallest Week	February 3 - 9	5,728,700
2 nd Largest Week	July 14 - 20	45,589,900
2 nd Smallest Week	February 10 - 16	5,628,300
Largest Month	July	201,328,600
Smallest Month	February	38,450,500
2 nd Largest Month	August	197,332,000
2 nd Smallest Month	January	41,457,300

SYSTEM STATISTICS

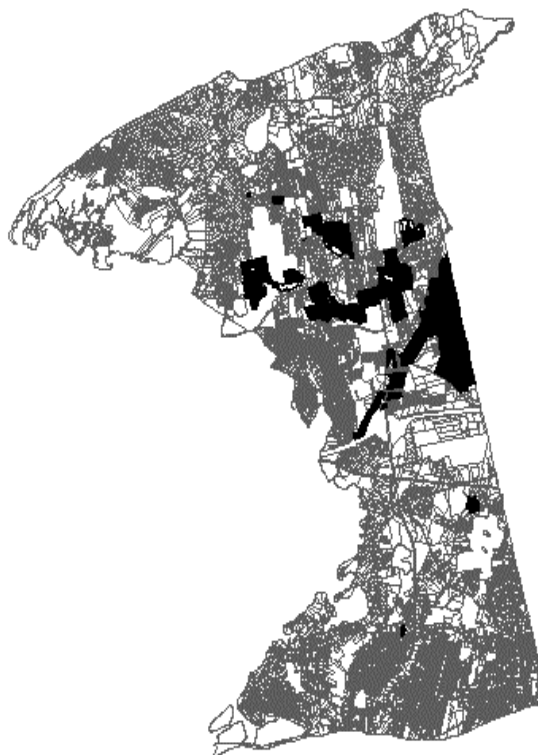
Calendar Year 2019

Pumping Capacity of Main Station and 22 Sub Stations	11,600 Gallons Per Minute
Chemical Feed Pumping Stations	13
Storage Capacity of Three Standpipes and One Elevated Tank	11,000,000 Gallons
Maximum Permitted Withdrawal from all wells Per Year	1.189 Billion Gallons
Two Iron & Manganese Removal Treatment Plants	9,700,000 Gallons Per Day

LAND OWNED BY DISTRICT (acres)

Land Owned as of 01/01/2019 1,005.17
Lot "0" Hokum Rock Rd + 1.93
Total as of 12/31/2019 1,007.10

Total Watershed Conservation Restrictions
Held as of 12/31/2019 69.60



WATER RATES & CHARGES

DISTRICT PROPERTY TAX RATE

In Fiscal Year 1989, the District's tax rate was set at "zero." It continued at zero until FY2009, when by action under Article 9, the voters appropriated funds for the continued investigation of wastewater planning which re-established a tax rate. The rate when approved by the Department of Revenue was set at 4¢ per thousand dollars of property valuation. The tax rate has been set at zero since FY 2010.

ACCOUNT CHARGE

Formerly known as the *Minimum Charge*, which provided an "*allowance*" of 15,000 gallons for each six-month billing cycle, this charge now represents a basic semiannual fee regardless of the amount of water used, if any, during each six-month billing cycle.

7/1/91 - 6/30/92 - Minimum Charge \$30 with an allowance of 15,000

7/1/92 - 6/30/93 - Account Charge \$25 - no allowance

7/1/93 - 6/30/98 - Account Charge \$20 - no allowance

7/1/98 - 6/30/08 - Account Charge \$25 - no allowance

7/1/08 - 6/30/09 - Account Charge \$36 - no allowance

7/1/09 - 6/30/19 - Account Charge \$42 - no allowance

CONSUMPTION

7/1/92 - 6/30/94 - No Allowance - \$1.50

7/1/94 - 6/30/00 - First 50,000 gallons - \$1.50

51,000 and over - \$1.75

7/1/00 - 12/31/04 - First 50,000 gallons - \$1.50

Next 50,000 gallons - \$2.00

101,000 gallons and up - \$2.50

1/1/05 - 06/30/09 - First 50,000 gallons - \$2.00

Next 50,000 gallons - \$2.50

101,000 gallons and up - \$3.00

07/01/09 - 06/30/2019 - First 50,000 gallons - \$2.50

Next 50,000 gallons - \$3.00

101,000 gallons and up - \$3.50

SAFE DRINKING WATER ACT ASSESSMENT

This is a pass through fee set by the Department of Environmental Protection. This revenue subsidizes DEP's oversight of public water suppliers and the enforcement of EPA compliance. The rate includes a five percent administrative fee.

7/1/95 - 6/30/03 - \$0.0084 per thousand gallons

7/1/03 - 6/30/19 - \$0.0090 per thousand gallons

LAND ACQUISITION FEE—\$10 semiannual fee from Aug 2001 through February 2007

WATERSHED PROTECTION FEE—At the Annual District Meeting, held April 25, 2007, the voters, under Article 12, approved the purchase of 6.5 acres of land for wellhead and watershed protection and the purchase of water conservation restrictions on 59(+/-) acres of land in the Town of Brewster. The article approved the cost at \$2,500,000. In order to pay for the bond issuance costs, debt service and other ancillary costs, the voters also approved a new fee. The fee was set at \$10 per customer every six months until the total cost is recovered. The fee was first assessed in August 2007 and was last assessed on the August 2019 water bill.