

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



**FOR THE  
CALENDAR AND FISCAL YEAR  
2021**

# DISTRICT OFFICIALS

## 2021

### ***ELECTED OFFICIALS*** **WATER COMMISSIONERS**

#### **Term Expires**

Paul F. Prue, *Chairman*, Dennis  
Peter L. McDowell, *Vice Chair*, Dennis  
Alan Tuttle, South Dennis

2023  
2024  
2022

### **MODERATOR**

William E. Crowell, Jr., East Dennis  
William Bradford Crowell, East Dennis

2021 (retired)  
2024 (elected 5/11/21)

### ***APPOINTED BY MODERATOR*** **FINANCE COMMITTEE**

Greg Stone, *Chairman*  
Faith Hallett  
Robert Perry  
James Plath  
Richard Roy

2022  
2024  
2023  
2023  
2022

### ***EMPLOYEES APPOINTED BY WATER COMMISSIONERS***

#### **SUPERINTENDENT**

David Larkowski

#### **CLERK & TREASURER**

Sheryl A McMahon

#### **ASSISTANT SUPERINTENDENT**

James Ritchie

#### **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  
Daniel Marrs, Jr.  
Profirio Pina, Jr. (retired)  
Brian Saunders

#### **COUNSEL**

Pamela B Marsh, Esq.

#### **CONSULTING ENGINEERS**

Resilient Civil Engineering, PC

## **BOARD OF WATER COMMISSIONERS 2021**

To begin our report, we first and foremost want to express what a great privilege it was for the Board to honor William E. Crowell, Jr. as he presided as Moderator over his last Annual District Meeting on May 8, 2021. Bill was presented with a plaque from the District for his years of service from 1965 until 2021, along with proclamations from the Select Board and the House of Representatives honoring his 56 years of service to the District. We congratulate Bill's son, Brad Crowell, as his father's successor as Moderator having won the position at the town-wide election on May 11th.

One of the on-going concerns the Board had throughout 2021 was the proposed discharge sites for treated wastewater effluent that would be within the District's Zone IIs for its public water supply wells. Early in the year, the Board expressed their concerns by sending a letter to the Select Board requesting that they not go forward with any wastewater plan until sufficient data and facts are revealed to define the challenges ahead that we must face. There were questions about what possible contaminants might be contained in that effluent for which there is currently no treatment anticipated. Another concern is what impact an effluent discharge, in the millions of gallons per day, may have on the underground water flows within the drinking water recharge areas. The Board agreed that the letter should be read aloud at the Annual Town Meeting.

The Board continued these discussions in July, when the Commissioners met remotely with representatives from both the Drinking Water Division and the Wastewater Division of the Department of Environmental Protection (DEP) to gain a better understanding of how wastewater effluent discharge permits are granted and raise their concerns with the regulatory agency. The Board found the information provided informative. In September, Diane Chamberlain, Chair of the Wastewater Implementation Committee met with the Board regarding the proposed discharge sites and she noted that her committee was very much aware of the Board's concerns and was making every effort to find qualified sites.

Throughout the year, our management staff monitored the every-changing Covid-19 safety protocols and guidance and implemented them as appropriate in order to keep the District employees, as well as the public, safe. The Board has truly appreciated the efforts of all District staff to work cooperatively and to minimize impacts on operations and services throughout the pandemic. Although not required, the Board did suspend interest and demand fees on late-paid bills for about a year to give those who were impacted by shut-downs and unemployment the chance to get caught up.

The Superintendent, with the assistance of a consultant, continues to keep the Board informed as to the status of the District's Water Withdrawal Permit renewal. The permit technically expired in 2010 so the District operates under a temporary authorization. The maximum annual withdrawal is set at 1.189 billion gallons per year. Due to low groundwater conditions observed in April, and the fact that the District exceeded its permitted withdrawal by 54 million gallons in 2020, the Board declared a State of Water Conservation and implemented a mandatory limit of outdoor watering to odd/even days for the ensuing summer season.

Per And Polyfluoroalkyl Substances (PFAS) is a contaminant of growing concern for public water suppliers. As required, the District began testing quarterly in 2021 for PFAS. In the third quarter of sampling two wells had detections. Fortunately, those detections were very low and after consulting with the DEP, no consumer warnings were required. The detections will be reported in the District 2021 Annual Water Quality Report.

In August, the Board reviewed the FY 2020 audited financial statements as provided by Sanders, Walsh and Eaton. The Board discussed the procurement and award process for contracting with an auditing firm. The Board discussed this several times over several months and reached a basic policy decision that stipulates that the Clerk/Treasurer, who also serves as the Accounting Officer, should not be the person to award the auditing services contract. The Board had a workshop to review the procurement process and a draft request for proposals in December with a final determination of the process to be decided after the first of the New Year.

Finally, as the year came to a close, the Board met with Russ Kleekamp, an engineer with GHD. Mr. Kleekamp was hired by the Town of Dennis to serve as its Wastewater Project Coordinator and to essentially identify and solve problems. He has done this for 22 years across seven Cape towns while admitting that all of the towns had unique challenges. The Board directed many questions to Mr. Kleekamp concerning how the collection system would be constructed, the need for any additional water from the District to operate the system and the ability to treat for contaminants if, and when, they might arise. It was noted that CDMSmith is the

design engineers for the Town's wastewater implementation and that they are continuing to identify all potential sites and are doing investigations to determine viability including on-going soil evaluations of the sites. Mr. Kleekamp made assurances that the Wastewater Implementation Committee wants to address the concerns of the Board while trying to identify sites that are outside of the Zone IIs. In summary, one of the Board's most pressing concerns is the discharge of effluent into the Zones of Contribution for the public water supply and will continue to seek answers and alternative proposals from the Town of Dennis through its Select Board and Wastewater Implementation Committee.

The Board wishes to acknowledge all the exemplary work of the management team, administrative staff along with all those employees who work every day on the front lines of water production and treatment; repairs and maintenance of our water distribution system and those that provide the every-day direct services to our customers in their homes and businesses. Thank you for all you do for Dennis Water District.

#### **BOARD OF WATER COMMISSIONERS**

**Paul F. Prue, *Chairman***

**Peter L. McDowell, *Vice Chair***

**Alan Tuttle**

# MINUTES OF THE ANNUAL DISTRICT MEETING HELD ON May 8, 2021

The Moderator, William E. Crowell, Jr., having declared a quorum of at least 25 voters present, called the meeting to order at approximately 12:05 PM at the Nathaniel H Wixon Middle School, 901 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 and duly seconded, those present **UNANIMOUSLY 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. He noted that the Finance Committee recommendations are printed in the Warrant. The Moderator then called for a motions for the following articles:

**ARTICLE 1. UNANIMOUSLY VOTED:** To accept the Reports of the District Officers for the Calendar and Fiscal Year 2019 and 2020 as printed, with the exception of printer's errors.

**ARTICLE 2. UNANIMOUSLY VOTED:** To transfer and appropriate the sum \$7,956 from the General Water District Revenues of the Fiscal Year 2022 for the purpose of the article.

**ARTICLE 3. UNANIMOUSLY VOTED:** To transfer and appropriate \$4,830,406 from General Water District Revenues of the Fiscal Year 2022 for the Operating and Maintenance Budget.

**ARTICLE 4. UNANIMOUSLY VOTED:** To transfer and appropriate \$662,908 from Free Cash for the following Capital Appropriations:

CLEANING WELLS & PUMP REPAIRS	120,000
WATER DISTRIBUTION SYSTEM MAINTENANCE AND EXTENSIONS	132,908
NEW TRUCKS W/EQUIPMENT	100,000
MISCELLANEOUS EQUIPMENT	10,000
WATER MANAGEMENT ACT PERMIT RENEWAL	10,000
MAIN OFFICE & PUMP STATION BUILDING MAINT	220,000
CHORINE ANALYZER UPGRADES	60,000
LAND ACQUISITION COSTS	10,000

And to transfer and appropriate \$542,092 from General Water District Revenues of the Fiscal Year 2022 for the following Capital Appropriations:

WATER DISTRIBUTION SYSTEM MAINTENANCE & EXTENSIONS	67,092
GREEN SAND REPLACEMENT	75,000
PAINTING INTERIOR/EXTERIOR OLD BASS RIVER TANK	400,000

For a total of \$1,205,000 for the purposes of the Article.

Moderator Crowell recognized Water Commission Chair Prue for additional comments. Chair Prue, on behalf of the citizens of the District, the Board of Water Commissioners and District Management presented an engraved plaque to Moderator Crowell in recognition of his fifty-six years serving as the elected Moderator of the Dennis Water District. Those in attendance rose for a standing ovation. Moderator Crowell thanked those present for having elected him over all the years. On a motion made and duly seconded, the meeting was adjourned by **UNANIMOUS VOTE** at approximately 12:16 PM.

Respectfully submitted,

Sheryl A McMahon  
District Clerk

**DENNIS WATER DISTRICT**  
**BALANCE SHEET**

Jun 30, 21

**ASSETS**

Current Assets

Checking/Savings

1020 · Petty Cash Advance 500.00

1040 · Cash - Unrestricted

1040-01 · Coop Bank of Cape Cod-M Market 12,612.75

1040-03 · Unibank Auto Cash 59,490.44

1040-05 · Rockland Trust (EBSB) 1,151,831.26

1040-06 · Harbor One Money Market 1,071,789.68

1040-07 · Citizens Bank Money Market 35,417.74

1040-10 · Citizens Bank - Checking 11,147.99

1040-11 · Coop Bank of Cape Cod-Checking 277,043.31

1040-12 · Unipay - On Line 26,877.83

1040-13 · Cape Cod 5 Money Market 73,251.65

1040-14 · Unibank Remote Deposit 130,735.27

1040-20 · MMDT - Cash Portfolio 642,880.28

Total 1040 · Cash - Unrestricted 3,493,078.20

1050 · Cash - Restricted

1050-05 · Rockland Trust - OPEB Trust 333,946.37

1050-11 · Cape Cod 5 - Stabilization 204,094.30

Total 1050 · Cash - Restricted 538,040.67

Total Checking/Savings 4,031,618.87

Accounts Receivable

1400 · Accounts Receivable

1410 · Water Receivables 91,894.11

1415 · Water Liens Receivable

1415-17 · FY 2017 Water Liens 1,386.68

1415-18 · FY 2018 Water Liens 346.96

1415-19 · FY 2019 Water Liens 2,659.79

1415-20 · FY 2020 Water Liens 1,566.04

1415-21 · FY 2021 Water Liens 1,450.45

Total 1415 · Water Liens Receivable 7,409.92

1450 · Water Liens in Tax Title 4,436.91

Total 1400 · Accounts Receivable 103,740.94

1500 · Tax Receivables

1750 · Taxes in Litigation 473.71

Total 1500 · Tax Receivables 473.71

Total Accounts Receivable 104,214.65

1900 · Amounts Provided for Payment of Debt

1950 · Amounts Provided for Bonds 3,456,929.12

1960 · Amounts Provided for Notes 1,825,000.00

Total 1900 · Amounts Provided for Payment of Debt 5,281,929.12

Total Current Assets 9,417,762.64

**TOTAL ASSETS 9,417,762.64**

## District Balance Sheet - Continued

### LIABILITIES & EQUITY

#### Liabilities

##### Current Liabilities

##### Other Current Liabilities

##### 2100 · Payroll Liabilities

2100-08 · AFLAC NY Short Term Disability	136.00
2100-11 · AFLAC NE Accident Insurance	385.60
2100-12 · AFLAC NE Short Term Disability	225.96
2100-13 · AFLAC NE Cancer Insurance	83.52
2100-14 · AFLAC NE Life Insurance	166.92
2100-15 · Eye-Med	29.58
2100-50 · Health Insurance - Active	7,849.41
2100-51 · Dental Insurance - Active	281.84
2100-52 · Life Insurance - Active	17.40
2100-53 · Health Insurance - Retirees	0.42
2100-54 · Dental Insurance - Retirees	343.36
2100-55 · Life Insurance - Retirees	3.48

Total 2100 · Payroll Liabilities	9,523.49
----------------------------------	----------

##### 2300 · Revenue Reserved Until Collectd

2300-10 · Water Revenue Reserved	91,894.11
2300-15 · Water Lien Revenue Reserved	11,846.83
2300-20 · Deferred Tax Revenue	473.71

Total 2300 · Revenue Reserved Until Collectd	104,214.65
--	------------

##### 3180 · Prior Fiscal Year Accruals

3180-01 · Accrued Payroll	44,759.77
3180-02 · Accrued Accts Payable	37,944.81

Total 3180 · Prior Fiscal Year Accruals	82,704.58
---	-----------

Total Other Current Liabilities	196,442.72
---------------------------------	------------

Total Current Liabilities	196,442.72
---------------------------	------------

##### Long Term Liabilities

##### 3430 · Long Term Bonds Issued

3430-01 · Land for Watershed Protection	330,000.00
3430-02 · Water Treatment Facilities	3,126,929.12

Total 3430 · Long Term Bonds Issued	3,456,929.12
-------------------------------------	--------------

##### 3435 · Bond Anticipation Notes Payable

3435-01 · Land Purchase - Hokum Rock Rd	1,125,000.00
3435-02 · Land Purchase Old Bass River Rd	700,000.00

Total 3435 · Bond Anticipation Notes Payable	1,825,000.00
--	--------------

##### 3700 · OPEB Liability Trust Fund

3700-01 · OPEB - Income	11,756.25
3700-02 · OPEB - Fees	-1,912.30
3700-03 · OPEB - Change in Market Value	43,907.50
3700 · OPEB Liability Trust Fund - Other	280,194.92

Total 3700 · OPEB Liability Trust Fund	333,946.37
--	------------

Total Long Term Liabilities	5,615,875.49
-----------------------------	--------------

Total Liabilities	5,812,318.21
-------------------	--------------

## District Balance Sheet - Continued

Equity	
3500 · Special Reserve Accounts	
3500-01 · Reserve for Petty Cash Advance	500.00
3500-02 · Reserve for Mass Sales Tax	1,524.31
3500-03 · Reserve for Sick Leave Buy Back	67,285.26
3500-04 · Reserve - Safe Drink Water Act	13,900.59
Total 3500 · Special Reserve Accounts	83,210.16
3590 · Undesignated Fund Balance	1,339,692.23
3591 · Designated Appropriations	
3591-02 · Land Aquisition Expenses	10,000.00
3591-05 · Billing Software & Comptr Upgrd	91,641.35
3591-06 · Water Withdrawal Permit Renewal	15,858.92
3591-07 · Asbuilt Program	7,623.52
3591-08 · Security Program	29,372.63
3591-09 · Tank Repairs & Power Washing	316,940.74
3591-10 · Power Line Maintenenace	26,483.27
3591-11 · SCADA Radio Upgrades	2,909.02
3591-12 · Miscellaneous Equipment-4/23/19	7,821.54
3591-14 · Main Office & Stat Bldg Mntnce	220,000.00
3591-16 · Risk & Resilience Assessment	6,812.50
Total 3591 · Designated Appropriations	735,463.49
3592 · Capital Project Appropriations	
3592-01 · Cleaning Wells & Pump Repairs	328,130.72
3592-02 · Water Dist System Maint & Ext	321,082.73
3592-07 · Green Sand Replacement	425,000.00
Total 3592 · Capital Project Appropriations	1,074,213.45
3595 · Capital Equipment Appropriation	
3595-07 · Misc Equipment - 6/23/2020	6,428.13
3595-11 · Chlorine Analyzer Upgrades	60,000.00
3595-12 · New Trucks w/Equip 5/2/2021	100,000.00
3595-13 · Misc Equipment 5-08-21	2,342.67
Total 3595 · Capital Equipment Appropriation	168,770.80
3600 · Stabilization Fund	204,094.30
3810 · Budgetary Control	
3818 · Revenue Control FY 2022	-5,380,454.00
3868 · Appropriation Control FY 2022	5,380,454.00
Total 3810 · Budgetary Control	0.00
Total Equity	3,605,444.43
TOTAL LIABILITIES & EQUITY	9,417,762.64



# Income & Expense Report

## July 1, 2020 - June 30, 2021

<b>Income</b>	
3900 · Estimated Receipts (water receivables)	5,342,917.18
4240 · Income	
4242 · Interest on Deposits	6,897.05
4640 · Tank Rental Fees	411,094.85
4645 · Solar Revenue	98,719.82
4840 · Miscellaneous Receipts	5,676.15
<b>Total 4240 · Income</b>	<b>522,387.87</b>
<b>Total Income</b>	<b>5,865,305.05</b>
<b>Expenditures</b>	
5000 · Operating & Maintenance Budget	
5000-01 · Gasoline	30,483.10
5000-02 · Tractor Expense	7,332.31
5000-03 · Truck Maintenance & Repairs	14,134.03
5000-04 · Misc Equip Repairs & Mainten	9,825.53
5000-05 · Electricity	377,026.02
5000-06 · Diesel Fuel	2,230.94
5000-07 · Natural Gas	3,781.77
5000-09 · Sick Leave Buy-Back	33,340.00
5000-11 · Treatment Chemicals	251,093.68
5000-12 · Propane Gas	16,648.98
5000-13 · Treasurer's Expense	3,098.33
5000-14 · Engineering & Professional Serv	0.00
5000-15 · Hydrant Maintenance	3,342.30
5000-16 · Legal Services	2,444.55
5000-17 · Postage Expenses	22,701.80
5000-18 · Printing & Advertising	14,717.18
5000-19 · Office Expenses	6,689.68
5000-20 · Tool Expense	8,257.35
5000-21 · Meters & Parts	95,741.95
5000-23 · Superintendent's Expense	552.53
5000-24 · Licenses, Dues & Training	8,899.06
5000-26 · Safety Equipment & Supplies	9,237.67
5000-27 · Substance Abuse Free Workplace	1,062.50
5000-28 · Communication Expenses	19,206.22
5000-29 · FICA/Medicare & UHI Tax Expense	17,231.46
5000-31 · County Retirement Assessment	279,251.00
5000-32 · Other Post Employment Benefits	66,695.00
5000-34 · Computer Expenses	14,710.41
5000-35 · Uniforms, Rugs Rentals	14,147.84
5000-36 · Rubbish Removal	1,475.00
5000-37 · General Supplies	692.23
5000-38 · Other Necessary Expenses	3,366.38
5000-39 · Household Haz Waste Collect Day	18,097.71
5000-40 · Water Quality Expenses	29,342.40
5000-60 · Payroll - Office & Admin	438,118.10
5000-61 · Payroll - Water Works	837,006.10
5000-62 · Payroll - On Call Duty	40,646.34
5000-63 · Payroll - Station Duty	65,633.29
5000-64 · Payroll - Overtime	27,779.11
5000-66 · Payroll - Def Comp DWD share	21,919.25
5000-67 · Payroll - Longevity	16,967.00
5000-68 · License - Regrade	0.00
5010 · Repairs & Maintenance	101,616.01
5030 · Group Insurance Costs	382,370.86
5040 · Debt Service	
5040-01 · Principal on Loans	675,544.14
5040-02 · Interest & Service Fee on Loans	113,755.78
<b>Total 5040 · Debt Service</b>	<b>789,299.92</b>
5050 · Insurance	119,946.00
5060 · Independent Financial Reporting	13,000.00
5100-30 · Elected Officials Salaries	7,956.00
5100-90 · Water Services	84,856.70
5999 · Reserve Fund	31,392.50
<b>Total 5000 · Operating &amp; Maintenance Budget</b>	<b>4,365,364.09</b>
5600 · Continuing - Appropriations	
5640 · Cleaning Wells & Pump Repairs	115,744.50
5660 · Leak Detection Survey	3,953.25
5685 · Water Dist System Maint & Ext	27,115.98
5821 · Risk & Resilience Assessment	8,187.50
5833 · Asbuilt Program	2,150.00
5834 · SCADA Radio Upgrades	3,984.00
5842 · Misc Equipment - 5/8/2021	7,657.33
5843 · New Truck w/Equipment-6/23/2020	24,579.58
5854 · Miscellaneous Equip - 6/23/2020	17,571.87
5855 · Chlorine Analyzer Upgrades	50,000.00
<b>Total 5600 · Continuing - Appropriations</b>	<b>260,944.01</b>
5800 · Capital Equipment and Vehicles	
5857 · Versa Probes VP-33D	15,965.00
5863 · Paint Inter/Exter Rte 134 Tank	598,100.00
5865 · Tank Repairs & Power Washing	112,391.00
5892 · Land Purchase-Old Bass River Rd	700,000.00
5893 · Telephone System	7,376.00
<b>Total 5800 · Capital Equipment and Vehicles</b>	<b>1,694,776.01</b>
<b>Total Expenditures</b>	<b>6,060,140.10</b>

	<b>DENNIS WATER DISTRICT</b>	<b>FY 2021</b>	<b>Wages Paid</b>		
<b>POSITION TITLE</b>	<b>ELECTED OFFICIALS</b>	<b>REGULAR PAY</b>	<b>OVERTIME PAY</b>	<b>DOUBLE OVERTIME PAY</b>	<b>TOTAL</b>
Moderator	Crowell, Jr., William E	306.00			306.00
Commissioner	McDowell, Peter L	2,550.00			2,550.00
Commissioner	Prue, Paul	2,550.00			2,550.00
Commissioner	Tuttle, Alan	2,550.00			2,550.00
		7,956.00			7,956.00
Office/Admin	Finnegan, Emily	20,086.85			20,086.85
Accts Pay/Billing	McInnis, Louise S	74,927.66			74,927.66
Clerk/Treasurer	McMahon, Sheryl A	129,278.34			129,278.34
Accts Rec/Payroll	Mullikin, Catherine M	50,031.62			50,031.62
Meter Services	Spuria, Erica	49,251.64			49,251.64
		323,576.11			323,576.11
Laborer	Alex, Peter W	58,109.25	712.44		58,821.69
Machine Op/Foreman	Barboza, Robert J	84,052.49	19,297.45	3,693.83	107,043.77
Meter Technician	Carroll, Andrew W	58,433.29	1,548.72		59,982.01
Station Maintenance	Davis, Kenneth J	64,425.46	2,838.22		67,263.68
System Maintenance	DiRusso, Eric G	52,724.06	2,354.34	314.55	55,392.95
System Maintenance	Drozell, Stephan H	48,748.72	1,963.50	297.00	51,009.22
System Maintenance	Griffin, David W	74,647.93	27,435.05	1,934.74	104,017.72
Station Maintenance	Hollis, Scott A	69,357.23	17,282.52	1,061.10	87,700.85
System Maintenance	Kelley, Joshua D	53,573.21	744.77	326.97	54,644.95
Electrician/SCADA	Kraul, Joseph D	61,474.56	2,227.50		63,702.06
Superintendent	Larkowski, David A	132,974.64	8,181.42	608.64	141,764.70
Laborer	Marrs, Daniel J	1,440.00			1,440.00
Machine Op/Foreman	Pina Jr, Profirio J	64,553.94			64,553.94
Assistant Superintendent	Ritchie, James E	105,463.61	18,205.66	3,528.84	127,198.11
Station Maintenance	Saunders, Brian J	87,922.08	21,385.09	1,834.80	111,141.97
		1,017,900.47	124,176.68	13,600.47	1,155,677.62

## Superintendent Report 2021

The year 2021 continued to be challenging due to the pandemic which impacted supply chain issues, in-person meeting requirements and one that was most challenging to management were the ever-changing Covid-19 guidance and mandates. But, as difficult as it was from time-to-time, the District office remained open for business, even when most government offices were closed to the public.

Contractual work to clean wells and pump replacements continued on as it is essential for efficient water production. Nearly every year, Wells 11 and 15 have to be cleaned due to screen clogging and this year was no exception. This year Wells 7 and 8 had pump replacements due to their age. In the early fall, Well 23 was struck by lightning and the motor had to be replaced.

The level of our groundwater table was a concern early in the season. After discussions with other towns within the Monomoy Aquifer, it was agreed upon as a group, for all the communities drawing from Monomoy to restrict outdoor watering to a mandatory Odd/Even day schedule. Signs were located in common visible locations to remind customers about the current conditions. Thank you to all our customers who made those adjustments and abided by our request. However, not all customers were compliant even after having been advised of the restriction. Our ground water levels continued to run below average late into the year and into early 2022. Total annual pumping was 1.119 billion gallons for this calendar year.

Planned tank maintenance is critical to extending the life of paint on the tanks and the integrity of the tanks themselves. The Old Bass River Tank was inspected and the report confirmed what was already suspected; that it would be the next tank to need comprehensive rehabilitation work. It was recommended that the tank be completely stripped of its paint, inside and out, and after a few minor steel repairs be repainted. The estimated cost is \$1.4 million and funding will be proposed over two fiscal budgets with a goal of starting the work early in 2023. The Route 28 Elevated Tank was power washed in the fall. Even though the tank is only 3 years old, a sudden growth of mold took hold making the tank unsightly. The timely removal of mold protects the paint finish from deteriorating.

Normal yearly projects, like the District hosted Household Hazardous Waste Collection Day held at the Tony Kent Arena and was, again, a big success. Flushing hydrants on the south side of Dennis in the spring was undertaken. Despite having to use more than 9 million gallons of water to flush the system, it is a necessary maintenance operation that removes sedimentation from the water mains and prevent bacterial contamination.

Water sampling in 2021 included a grouping of emerging contaminants of concern. It is commonly referred to as “PFAS”. It is a group of man-made chemicals found in many products used in our everyday lives. In the third-quarter sampling round, low levels of PFAS was detected in the south side iron and manganese removal plant. Through further tracing, it was determined that it was entering the plant from Wells 5 and 16. The detections were far below the maximum contaminant level of 20 ppt (parts per trillion). In consultation with the Department of Environmental Protection (DEP), the District will be on a continuing monitoring schedule. DEP considers the fact that the south side treatment plant serves as a common entry point for 6 wells, and that the water from Wells 5 and 16 because even further diluted as it enters the distribution system. Dilution of a contaminant through the mixing of multiple sources, further lowers the level of detection and quite possibly low enough to no longer be detected.

As always, I extend my personal thanks to the office staff for the exceptional customer service they provide as well as support services to field staff; and thanks to the system distribution and maintenance staff for everything they do to keep the water flowing even during the most adverse weather conditions and to the station maintenance staff for their diligence and dedication to continue providing a high quality of drinking water.

Respectfully submitted,

David Larkowski  
Superintendent

## ***Pumping Equipment Operations 2021***

	<i><b># of days</b></i>		<i><b># of days</b></i>
Main Station – Old Bass River Road 5 submersible electric pumps with a total capacity of 700 gpm pump	147	Sub-Station 12 – Old Chatham Road 75 hp electric motor w/700 gpm pump	226
Sub-Station 1 – Old Chatham Road 40 hp electric motor w/350 gpm pump	141	Sub-Station 13 – Center Street Decommissioned December 1999	
Sub-Station 2 – Old Chatham Road 20 hp electric motor w/200 gpm pump	141	Sub-Station 14 – Baker’s Pond Road 60 hp electric motor w/ 450 gpm pump	151
Sub-Station 3 – Old Chatham Road 20 hp electric motor w/250 gpm pump	141	Sub-Station 15 – Baker’s Pond Road 75 hp electric motor w/700 gpm pump 70kW generator	218 51 hrs
Sub-Station 4 – Old Bass River Road 30 hp electric motor w/350 gpm pump 85kW generator	126 48 hrs	Sub-Station 16 – Timber Lane 40 hp electric motor w/ 450 gpm pump	237
Sub-Station 5 – Route 134 30 hp electric motor w/450 gpm pump	207	Sub-Station 18 – Hokum Rock Road 75 hp electric motor w/ 700 gpm pump 70kW generator	221 46 hrs
Sub-Station 6 – Old Bass River Road 30 hp electric motor w/150 gpm pump	134	Sub-Station 19 – Setucket Road 75 hp electric motor w/700 gpm pump 75kW generator	220 52 hrs
Sub-Station 7 – Airline Road 40 hp electric motor w/450 gpm pump	182	Sub-Station 20 – Setucket Road 75 hp electric motor w/700 gpm pump 70kW generator	258 52 hrs
Sub-Station 8 – Airline Road 40 hp electric motor w/350 gpm pump	182	Sub-Station 21 – Route 134 75 hp electric motor w/700 gpm pump 80 kW generator	217 48 hrs
Sub-Station 9 – Grassy Pond Drive 75 hp electric motor w/650 gpm pump 75kW generator	224 50 hrs	Sub-Station 22– Route 134 75 hp electric motor w/700 gpm pump	196
Sub-Station 10 – Airline Road 75 hp electric motor w/700 gpm pump	154	Sub-Station 23– Old Chatham Road 75 hp electric motor w/700 gpm pump 85kW generator	124 42 hrs
Sub-Station 11 – Old Bass River Road 60 hp electric motor w/500 gpm pump	180	Booster Station – Route 134 2 – 345 hp caterpillar diesel engines w/3,500 gpm pump on each motor (manual)	0 hrs

## VEHICLE & EQUIPMENT OPERATIONS 2021

<b>Truck #</b>		<b>Miles</b>
2	2020 Chevrolet 1500 ½-ton pickup	6,004
4	2019 Chevrolet 2500 ¾-ton pickup	16,705
6	2015 Chevrolet ¾-ton pickup	7,084
8	2013 GMC 1500 ½-ton pickup	3,913
10	2017 Chevrolet ½-ton pickup	11,586
12	2017 Chevrolet 1-ton dump truck	3,487
14	2015 Chevrolet ½-ton pickup	7,020
16	2016 Chevrolet utility van	9,040
18	2007 Chevrolet ½-ton pickup	4,446
20	2002 Chevrolet dump truck	209
22	1999 GMC dump truck	671
24	2016 Chevrolet 2500 utility truck	9,335
26	2012 Chevrolet 1500 ½-ton pickup	5,739
28	2018 Chevrolet 2500 utility truck	3,959
30	2017 Chevrolet Citi Van	10,496
32	2016 Chevrolet 3500 utility truck	5,800
34	2020 Chevrolet 1500 ½-ton pickup	8,025
<b><i>TOTAL MILEAGE</i></b>		<b><i>113,519</i></b>

	<b>Equipment</b>	<b>Hours</b>
1993	Gravely	80
2016	Sullivan Air Compressor	57
2000	Ingersol Rand Air Compressor	6
2000	Kobelco Excavator	10
2016	John Deere Backhoe Loader	119
2014	John Deere Backhoe Loader	305
2015	John Deere Mini-excavator 35G	166
2017	John Deere Mini-excavator 50G	228
2005	Gravely	102
2004	Mower	48
2004	Roller	10
2000	100kw Generator Set #1	12
2000	100kw Generator Set #2	10

## ***CUSTOMER TRANSACTIONS – FY 2021***

Meter Replacements	535
Seasonal Meter Removal/Re-install	2,866
Final Readings	638
Backflow Prevention Device Tests	332
Demand Letters Processed (Suspended due to pandemic 4/2020-03/2021)	86
Demand Shut-Off Processed (Suspended due to pandemic 4/2020-03/2021)	51
Frozen Meters	34
Meter Tampering	0
Service Calls/Repairs	383
Fire Sprinkler Standby	119
Renewal/Relocation/Repair and Cut-Off of Water Services	571
Payments Processed	30,919

## ***NEW SERVICES FY 2021***

Dennis	24
East Dennis	24
Dennisport	11
West Dennis	12
South Dennis	14
<b><i>TOTAL</i></b>	<b>85</b>

## ***WATER PUMPED IN 2021 In Gallons***

January	37,601,000
February	37,015,000
March	41,314,000
April	50,817,000
May	114,411,000
June	170,266,000
July	181,649,000
August	188,202,000
September	131,769,000
October	86,052,000
November	41,896,000
December	38,881,000
<b><i>Total</i></b>	<b><i>1,119,873,000</i></b>

**MAIN LINE GATES & HYDRANTS**  
**as of December 31, 2021**

Year	20"	16"	12"	10"	8"	6"	2"	Total	Hydrants
All	14	20	207	144	620	2565	163	3733	1601
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
2020					1	5	-2	4	1
2021						3			
Totals	14	20	222	152	630	2623	155	3816	1631

**WATER MAINS**  
**as of December 31, 2021**

Year	24"	16"	12"	10"	8"	6"	4"	2"	Total
Prev	15,998	15,882	149,280	91,894	431,484	476,709	373	60,024	1,241,644
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
2020					410	1,275		-1,000	685
2021						320			320
	15,998	15,917	159,528	91,894	436,597	485,491	373	56,619	1,262,417

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

## ***PRODUCTION DEMAND STATISTICS***

### ***Calendar Year 2021***

Largest Day	August 15	9,000,700
Smallest Day	January 23	838,500
2 <sup>nd</sup> Largest Day	August 1	8,303,800
2 <sup>nd</sup> Smallest Day	February 18	918,000
Largest Week	August 15 - 21	45,345,000
Smallest Week	January 3 - 11	8,053,000
2 <sup>nd</sup> Largest Week	August 8 - 14	43,562,000
2 <sup>nd</sup> Smallest Week	January 17 - 23	8,098,000
Largest Month	August	188,202,000
Smallest Month	February	37,015,000
2 <sup>nd</sup> Largest Month	July	181,649,000
2 <sup>nd</sup> Smallest Month	January	37,601,000

## ***SYSTEM STATISTICS***

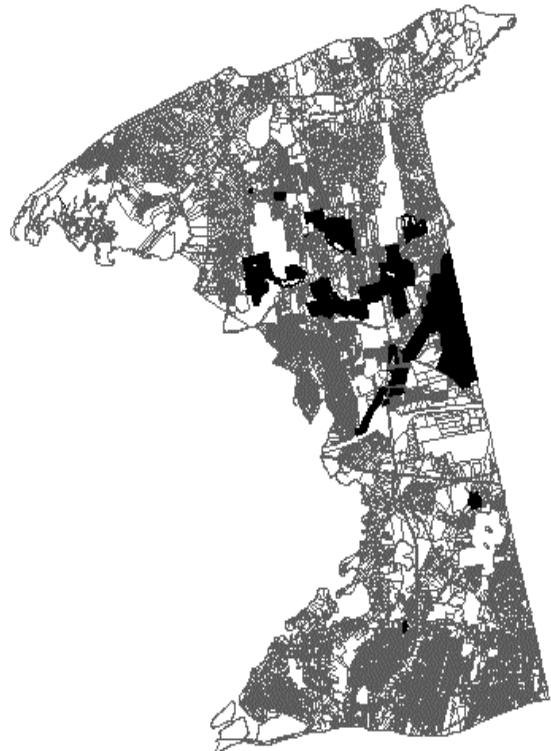
### ***Calendar Year 2021***

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	10,550,000 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 12/31/2021 1,016.72***

***Watershed Conservation Restrictions  
Held as of 12/31/2021 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 - 6/30/20 - Account Charge \$42 - no allowance  
7/1/20 - 6/30/22 - Account Charge \$48 - no allowance

## ***CONSUMPTION***

7/1/92 - 6/30/94 - No Allowance - \$1.50	07/01/09 - 12/31/19 - First 50,000 gallons - \$2.50
7/1/94 - 6/30/00 - First 50,000 gallons - \$1.50	Next 50,000 gallons - \$3.00
51,000 and over - \$1.75	101,000 gallons and up - \$3.50
7/1/00 - 12/31/04 - First 50,000 gallons - \$1.50	01/01/20 - 06/30/22 - First 50,000 gallons - \$3.00
Next 50,000 gallons - \$2.00	Next 50,000 gallons - \$3.50
101,000 gallons and up - \$2.50	101,000 gallons and up - \$4.00
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	

## ***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 - 12/31/19 - \$0.0090 per thousand gallons  
1/1/20 - 6/30/22 - \$0.009975 per thousand gallons (rounded to 1¢)

***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.

**DENNIS WATER DISTRICT**  
**BY - LAWS**  
(In effective as of 01/27/2009)

**ARTICLE ONE      OFFICERS**

Section One: The officers of the District shall be specified and directed by Chapter 277 of the Acts of 1945. (Adopted April 23, 1946, Amended December 8, 1965)

**ARTICLE TWO      MEETINGS**

Section One: Section One: For the year 2009, and each year thereafter, the annual meeting shall be held on the fourth Tuesday in April. Notwithstanding any general or special law to the contrary, for the year 2009, and each year thereafter, the annual election of the officers and any other matter that may appear on the official ballot shall be held on the fourth Wednesday in April. Commencing at an Annual Town Election to be held no sooner than 2010, or the next annual Dennis Town Election after enactment of special legislation authorizing Dennis Water District Elections to be held in conjunction with the Dennis Town Elections, the Dennis Water District Election shall be held in conjunction with the Dennis Town Election, with full responsibility for the conduct of such election to be vested in the officers of the Town, who shall place on the ballots to be used at said election the election of officers of the Dennis Water District and any question or questions as may be requested of them by the Board of Water Commissioners of the Dennis Water District. (Altered and Amended April 29, 2008) (Altered and Amended January 27, 2009)

Section Two: Meetings of the District shall be called by the clerk when requested in writing by a majority of the water commissioners or by ten or more legal voters of the District; and he shall give notice thereof by posting written notifications in two or more public places within the District, which notifications shall briefly state the purpose of the meeting. (Adopted March 18, 1953)

Section Three: No business shall be transacted at any District Meeting, except the election of officers, unless there is a quorum present consisting of at least 25 legal voters of the District. (Adopted March 18, 1953)

**ARTICLE THREE   FINANCES**

Section One: Effective July 1, 1974 the Financial year shall commence on July 1, and continue through June 30 of the following year. (Altered and Amended January 24, 1974)

Section Two: No money, except interest and indebtedness authorized by the District shall be paid from the treasury without written approval or order of a majority of the water commissioners or by a vote of the District and according to its order. (Adopted April 23, 1946)

Section Three: There shall be a Finance Committee, consisting of five registered voters of the District appointed by the Moderator for three-year terms, the initial appointments to be for terms as follows: two members for three years, two members for two years and one for one year. The Finance Committee shall consider any and all District questions, for the purpose of making reports or recommendations to the District. Members of the Finance Committee shall serve without compensation and no member shall hold any other elective or appointive District position during this term of office. The Moderator shall fill any vacancy for an unexpired term. The Finance Committee shall annually choose a chairman, secretary, and such other officers as it deems necessary. (Adopted April 26, 1977)

## **ARTICLE FOUR    AMENDMENTS**

Section One: These bylaws may be altered, amended, repealed and added to at any meeting of the District provided notice of such proposal is set forth in the call of the meeting. (Adopted April 23, 1946)

**(ARTICLE FIVE—WATER EXTENSIONS—**(Adopted June 16, 1947, Amended March 17, 1965 and March 16, 1966, Rescinded April 25, 2007)

## **ARTICLE FIVE      WATER USE RESTRICTION**

Section One: Authority - This Bylaw is adopted by the Dennis Water District under its home rule powers, its police powers to protect public health and welfare and its power under M.G.L. C.40, §21 et seq. This bylaw implements the District's authority to regulate water use pursuant to C.41, §69B.

Section Two: Purpose - The purpose of this bylaw is to protect, preserve and maintain the public health, safety and welfare whenever there is in force a state of water supply conservation or a state of water supply emergency by providing for enforcement of any duly imposed restrictions, requirements, provisions or conditions imposed by the District or by the Department of Environmental Protection.

### Section Three: Definitions

Enforcement Authority shall mean the Dennis Water District Board of Water Commissioners having responsibility for the operation and maintenance of the water supply. The Board of Water Commissioners may also designate any other local body having police powers as an enforcement authority.

Water Supply Emergency shall mean a state of water supply emergency declared by the Department of Environmental Protection under M.G.L. C. 21G, §15-17.

State of Water Supply Conservation shall mean a state of conservation declared by the District pursuant to section four of this bylaw.

Water Users or Water Consumers shall mean all public and private users of the District's public water system, irrespective of any person's responsibility for billing purposes for water used at any particular facility.

Person shall mean any individual, corporation, trust, partnership or association or other entity.

Public notice of a State of Water Conservation shall be given under section six of this bylaw before it may be enforced.

### Section Four: Declaration of a State of Water Conservation

The District through its Board of Water Commissioners may declare a State of Water Conservation upon a determination by a majority vote of the Board that a shortage of water exists, and that conservation of water is necessary to insure adequate supply to all consumers under all conditions.

### Section Five: Restricted Water Uses

A declaration of a State of Water Conservation issued by the Board of Water Commissioners may include one or more of the following restrictions, conditions, or requirements restraining the use of water for nonessential purposes as necessary to protect the water supply, which shall be included in the public notice required under section six.

- A) Odd/Even Law Watering. Lawn watering at facilities with odd numbered addresses is permitted only on odd numbered days. Lawn watering at facilities with even numbered addresses is permitted only on even numbered days.
- B) Outdoor Watering Ban. Lawn watering, and all other forms of nonessential outdoor water use are prohibited.
- C) Outdoor Watering Hours. Outdoor watering is permitted only during off-peak hours, to be specified in the declaration of a state of water conservation and public notice thereof.
- D) Filling Swimming Pools. Filling of swimming pools is prohibited.
- E) Automatic Lawn Sprinkler Use. The use of automatic lawn sprinkler systems is prohibited.

**Section Six: Public Notification of a State of Water Supply Conservation.**

Notification of any provision, restriction, requirement or condition imposed by the District as part of a State of Water Conservation shall be published in a newspaper of general circulation within the District, or by such other means reasonably calculated to reach and inform all users of water of the state of conservation. Any restriction imposed under section five shall not be effective until such notification is provided.

**Section Seven: Termination of a State of Water Supply Conservation; Notice**

A state of Water Supply Conservation may be terminated by a majority vote of the Board of Water Commissioners upon a determination that the water supply shortage no longer exists. Notification of the termination of a state of water conservation shall be given in the same manner as notice of the state of water conservation is given.

**Section Eight: State of Water Emergency; Restricted Water Use.**

Upon notification of the public that a declaration of a state of water emergency has been declared by the Department of Environmental Protection, no person shall violate any provision, restriction, requirement, condition or order approved or issued by the Department intended to bring about an end to the emergency.

**Section Nine: Penalties**

Any person violating this bylaw shall be liable to the District in the amount of \$50. for the first violation and \$100. for each subsequent violation which shall insure to the District for such uses as the Board of Water Commissioners may direct. Fines shall be recovered by indictment, or on complaint before the District Court, or by non-criminal disposition in accordance with Section 21D of Chapter 40 of the general laws. Each separate issuance of a citation pursuant to this section shall constitute a separate violation.

**Section Ten: Severability**

The invalidity of any portion or provisions of this bylaw shall invalidate any other portion or provision thereof.