REPORTS OF THE OFFICERS

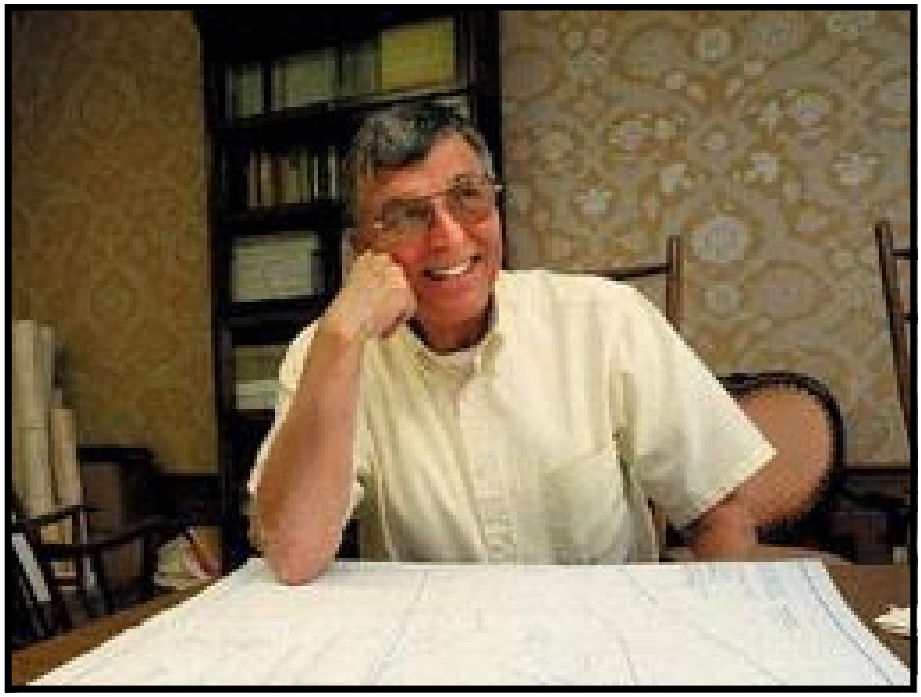
OF THE

DENNIS WATER DISTRICT

FOR THE

CALENDAR AND FISCAL YEAR

2009



This Annual Report is Dedicated to

CHARLES E. CHAMBERLAIN, JR.

District Finance Committee Chairman
1977—2009

DISTRICT OFFICIALS
2009

ELECTED OFFICIALS

WATER COMMISSIONERS	**Term Expires**
Paul F. Prue, Chairman, Dennis	2011
Charles F. Crowell, Vice Chairman, East Dennis	2010
Peter L. McDowell, Dennis	2012

MODERATOR

William E. Crowell, Jr., East Dennis	2012

APPOINTED BY MODERATOR

FINANCE COMMITTEE

David Talbott, Chairman	2011
John Shea	2010
Greg Stone	2010
James W. Plath	2011
Peter J. Nyberg	2012

EMPLOYEES APPOINTED BY WATER COMMISSIONERS

SUPERINTENDENT David Larkowski

CLERK & TREASURER Sheryl A. McMahon

ASSISTANT SUPERINTENDENT James Ritchie

Administration
Karen Gaumont
Ralph Luedeker
Elsie Lang

Water Works & Production
Peter Alex
George Avery
Robert Barboza
Adam Curtis
Kenneth Davis
Franklin Harris
Scott Hollis
Joseph Kraul
Profirio Pina, Jr.
Joshua Majka
John Moore
Brian Saunders
Anthony Teixeira

COUNSEL Thomas J. Perrino, Esq.

CONSULTING ENGINEERS AECom, Inc.
(formerly Earth Tech, Inc.)

REPORT OF THE BOARD OF WATER COMMISSIONERS
2009

Commissioners Prue and Crowell would like to recognize the election of Peter L. McDowell as the third and newest member of the Board who replaces Edward A. Crowell. Chairman Crowell retired upon completion of his current term on April 22 having served with distinction for more than 42 years. He will be sorely missed as a colleague and friend of the Board.

The Board of Water Commissioners is proud of and thankful for all the employees of the District for their enthusiasm, commitment and hard work in completing the single largest construction project undertaken by the District since its inception. The two iron and manganese removal plants were completed in late summer and have been performing nearly flawlessly. The District employees undertook several major components of the project such as the installation of nearly five miles of raw and treated water mains, pumping station upgrades and the construction of four settlement and two infiltration lagoons for the treatment backwash. These initiatives saved the rate payers of Dennis an estimated $2 million dollars in project costs. The Board would also like to take this opportunity to express its appreciation to the project manager Kristen Berger, PE of AECom, Inc. (formerly Earth Tech, Inc.) and the general contractor Kinsmen Corporation for the excellent working relationship among all those involved in this outstanding project. The New England Water Works Association, Massachusetts Water Works Association and the Massachusetts Department of Environmental Protection have all recognized in various seminars and printed articles the unique characteristics of this project and the outstanding job done by District employees.

Also, at the suggestion of the Board of Selectmen through Town Administrator Rick White a majority of the Water Commissioners voted to terminate the pending legislation which would have given the District authority to become a sewer district. It was felt that support of the legislation should be deferred so that concerns over Board of Health and certain zoning and planning issues might be taken into consideration in the planning effort. Also, since no scientific reports have been received from the Massachusetts Estuaries Project, and this report is a major component of determining the need for wastewater management, it was felt that it may be premature to proceed with the legislation until a complete evaluation has been studied and determinations are discussed. The Board can request the voters to reauthorize the filing of the legislation at a later date when a comprehensive wastewater management plan is adopted.

In December, the Board voted to move forward with plans to develop a wind power project by authorizing management to develop a request for proposals for engineering and consulting services for a feasibility study. The District uses approximately 1.2 to 1.4 megawatts of electrical power annually for its pumping stations, chemical treatment stations and other facilities. The potential cost savings is significant as the amount paid for electricity in Fiscal Year 2009 was $243,778 representing 8.8% of the operating and maintenance expenditures. A special District meeting will be held in February 2010 in order to authorize and approve funding for the study. It is anticipated that the study will be available in early to mid 2010.

We can not leave this report without once again extending our gratitude to all of the employees who serve with such dedication and esprit de corps. To the voters of the District we extend our appreciation for their continuing support of the Board's efforts to deliver water in sufficient quantities and of superior quality.

BOARD OF WATER COMMISSIONERS

Paul F. Prue, Chairman
Charles F. Crowell, Vice Chairman

MINUTES OF THE SPECIAL DISTRICT MEETING HELD ON JANUARY 27, 2009

Agreeable to the Warrant, the inhabitants of the Dennis Water District qualified to vote in District elections met at 485 Main Street, South Dennis in the Selectmen's Hearing Room on January 27, 2009.

In the absence of the Moderator, William E. Crowell, Jr., the District Clerk, Sheryl A McMahon, upon having declared a quorum of 25 voters present, called the meeting to order at 6:01 PM. The Clerk then called for nominations from the floor for Moderator for the duration of the meeting.

On a motion made by James Plath, and duly seconded, the name of Brad Crowell (William Bradford Crowell) was placed in nomination to serve as Moderator for the duration of the meeting and that he serve without compensation and further, that the Clerk cast one ballot in favor of the nomination. Upon casting the vote, Mr. Crowell was declared duly elected to serve as Moderator for the balance of the meeting and having been duly sworn to the faithful performance of the duties incumbent upon him, assumed the podium as Moderator.

The Moderator then proceeded with the reading of the Warrant.

On a motion made by Paul F. Prue, and duly seconded, those present **UNANIMOUSLY VOTED to wave the balance of the formal reading of the Warrant.**

The Moderator then called for:

ARTICLE 1. **UNANIMOUSLY VOTED:** To amend the By-Laws of the Dennis Water District by deleting Article Two, Section One and inserting the following language:

ARTICLE TWO – MEETINGS

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

With no further business before the Meeting and on a motion made by Heidi Schadt and duly seconded, the meeting was dissolved at 6:08 PM.

Respectfully submitted,
Sheryl A. McMahon
District Clerk

MINUTES OF THE ANNUAL DISTRICT MEETING
HELD ON APRIL 22 & 28, 2009

Agreeable to the Warrant, the inhabitants of the Dennis Water District qualified to vote in District elections met at the following locations on April 22, 2009:

Voters of Precincts 1 & 2 (Dennis and East Dennis)
CARLETON HALL, Old Bass River Rd., Dennis

Voters of Precincts 3, 4, & 5
(Dennisport, West Dennis and South Dennis)
1867 WEST DENNIS GRADED SCHOOL
School St., West Dennis

The polls were declared open at 7:00 AM in each voting area, and were declared closed at 8:00 PM.

The Wardens of each voting area filed reports with the District Clerk, who found the results to be as follows:

PRECINCT	1	2	3	4	5	Total
Water District Commissioner						
William Bradford Crowell	334	214	98	216	83	**945**
Peter L. McDowell	421	313	97	215	117	**1163**
Blanks - Write Ins	12	0	0	0	0	**12**
Total	**767**	**527**	**195**	**431**	**200**	**2120**
Water District Moderator						
William E. Crowell, Jr.	575	395	136	318	141	**1565**
Blanks - Write Ins	192	132	59	113	59	**555**
Total	**767**	**527**	**195**	**431**	**200**	**2120**

SUBSEQUENT MEETING

In further accord with the Warrant, the subsequent meeting was called to order by the Moderator, William E. Crowell, Jr., at 6:00 PM on April 28, 2009, at the Dennis Senior Center, 1045 Route 134, South Dennis, upon having declared a quorum of 25 voters present. .

After welcoming everyone in attendance, the Moderator asked for a moment of silence in remembrance of Charles E. Chamberlain, Jr. who passed away in January. Mr. Chamberlain was a charter member and chair of the District Finance Committee since its creation in 1977.

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

District Clerk, Sheryl A. McMahon, read the results of the Annual Election held the previous day (ARTICLE 1). Ms. McMahon declared Peter L. McDowell as Water Commissioner for three years and William E. Crowell, Jr. as Moderator for three years, both officials having been duly sworn by the Clerk prior to the meeting.

Water Commissioner Prue was recognized by the Moderator to make a presentation to Edward A. Crowell for his 42 years of service as a Water Commissioner having served 32 of those as Chairman. The plaque was inscribed as follows: In appreciation of Forty-Two Years of Service as Water Commissioner, Edward A. Crowell, for vision, wisdom and lasting contributions to the Dennis Water District, First Elected to the Board: March 15, 1967, Chairman since March 1977. The Board of Water Commissioners extended an invitation to honor Edward Crowell in his retirement at the Sea View Restaurant immediately following the adjournment of the meeting.

The Moderator then called for:

ARTICLE 2. VOTED: To accept the Reports of the District Officers for the Fiscal and Calendar Year 2008 as printed, with the exception of printer's errors.

ARTICLE 3. VOTED: To transfer and appropriate the sum of $7,956 from the General Water District Revenues of the Fiscal Year 2010 for the salaries of the elected officials as listed in the warrant.

ARTICLE 4. VOTED: To transfer and appropriate the sum of $3,109,480 from the Fiscal Year 2010 General Water District Revenues for the Operating and Maintenance Budget commencing July 1, 2009.

ARTICLE 5. UNANIMOUSLY VOTED: To transfer and appropriate the sum of $1,132,546 from the FY 2010 General Water District Revenues and $251,475 from "Free Cash" for the General Expenses commencing July 1, 2009, as listed in the warrant.

ARTICLE 6. VOTED: To transfer and appropriate from "Free Cash" $208,500 for the Capital Expenditures as listed in the warrant and to authorize the Board of Water Commissioners to sell or trade a 2000 Chevrolet utility truck and a 2001 Chevrolet ½-ton pickup truck to be applied to the purchase price of the new trucks.

ARTICLE 7. As called for in the warrant and on behalf of the Board of Water Commissioners, Paul F. Prue presented an oral report on the status of the District's wastewater investigation and pending legislation. Commissioner McDowell noted that just prior to the Annual Meeting, the Board of Water Commissioners had unanimously voted to submit a motion under article 45 at the Annual Town Meeting to be held May 5, 2009, that would request the voters of the Town to authorize the Board of Selectmen to file special legislation that would enable the Dennis Water District to become a sewer district but that the authorization would be subject to the restrictions and limitations as provided for under Proposition 2½ and further it was **VOTED:** to accept the report of the Board of Water Commissioners on their investigation of wastewater management planning and further that the Water Commissioners continue to report their progress to the voters at the next Annual District Meeting.

ARTICLE 8. VOTED: To transfer and appropriate $130,000 from "Free Cash" to supplement the FY 2009 Operating and Maintenance Budget for the exclusive purchase of Potassium Hydroxide.

With no further business before the Meeting and on a motion made by Paul F. Prue, and duly seconded, the meeting was adjourned at 6:17 PM.

Respectfully submitted,
Sheryl A. McMahon
District Clerk

DENNIS WATER DISTRICT
BALANCE SHEET
JUNE 30, 2009

	Detail	Debit	Credit
CASH ITMES:			
1020 · Petty Cash Advance		500.00	
1040 · Cash - Unrestricted			
1040-02 · Banknorth Money Market	113,893.36		
1040-03 · Unibank Auto Cash	556.38		
1040-05 · Mellon Trust of New England	2,489.91		
1040-06 · Unibank	18,949.68		
1040-07 · Citizens Bank	29,673.11		
1040-08 · Cape Cod Cooperative - Savings	606,979.89		
1040-10 · Citizens Bank - Checking	34,080.34		
1040-11 · Cape Cod Cooperative - Checking	-28,616.98		
1040-12 · Unipay - On Line	117,105.34		
1040-13 · Cape Cod Five Money Market	27,571.56		
1040-14 · Unibank Remote Deposit	197,126.94		
1040-15 · Morgan Stanley	1,252.26		
1040-20 · Mass Municipal Depository Trust	784,553.80		
Total 1040 · Cash - Unrestricted		1,905,615.59	
1050 · Cash - Restricted			
1050-11 · Cape Cod Five - Stabilization	567,136.86		
1050-20 · Morgan Stanley - Stabilizaiton	50.07		
Total 1050 · Cash - Rerestricted		567,186.93	
1120 · Investments - Unrestricted			
1120-02 · Morgan Stanley		631,794.73	
1130 · Investments - Restricted			
1130-05 · Morgan Stanley - Stabilization		206,124.00	
ACCOUNTS RECEIVABLE:			
1410 · Water Receivables		70,799.30	
1415 · Water Liens Receivable			
1415-02 · FY 2002 Water Liens	2,269.06		
1415-09 · FY 2009 Water Liens	1,695.17		
1415-94 · FY 1994 Water Liens	774.97		
1415-95 · FY 1995 Water Liens	82.95		
1415-96 · FY 1996 Water Liens	57.77		
1415-98 · FY 1998 Water Liens	265.94		
Total 1415 · Water Liens Receivable		5,145.86	
1450 · Water Liens in Tax Title		5,862.72	
1500 · Real Estate Taxes			
1500-09 · FY 2009 R E Taxes		8,900.44	
1600 · Personal Properpty Taxes			
1600-09 · FY 2009 P P Taxes		142.65	
1800 · MWPAT Bond Proceeds in Escrow		1,897,113.61	
PAYROLL LIABILITIES:			
2100 · Payroll Liabilities			
2100-04 · County Retirement Withholdings	23.10		
2100-08 · AFLAC - NY Short Term Disability	-0.20		
2100-10 · AFLAC - NY Accident Insurance	-0.26		
2100-11 · AFLAC - NE Accident Insurance	-16.93		
2100-12 · AFLAC - Short Term Disability	-67.25		
2100-13 · AFLAC NE Cancer Insurance	-21.89		
2100-14 · AFLAC NE Life Insurance	-19.56		
2100-50 · Health Insurance - Active	-7,777.90		
2100-51 · Dental Premiums	-617.54		
2100-53 · Life Insurance Premiums	-29.37		
Total 2100 · Payroll Liabilities			8,527.80

BALANCE SHEET CONTINUED
As of June 30, 2009

LOANS:			
2800 · Loans Authorized and Unissued			900,000.00
2900 · Loans Authorized		1,060,000.00	
2901 · MWPT Loan Authorized in Escrow			1,897,113.61
2980 · Temporary Debit - BAN			
2980-20 · Land Purchase of 11 acres			160,000.00
RESERVES AND SURPLUS ACCOUNTS:			
3179 · FY 2009 Accruals			
3179-01 · Accrued Payrolls FY 2009	-35,836.15		
3179-02 · Accounts Payable Encumbrances FY 2009	-54,170.22		
3179-03 · Worker's Comp Audited Premiums FY 2009	-5,000.00		
3179-07 · Unemployment Benefits FY 2009	-6,100.00		
Total 3179 · FY 2009 Accruals			101,106.37
3241 · Reserve for Mass Sales Tax			1,329.37
3244 · Property & casulaty Claims			
3244-65 · Lightning Damage - June 2009		818.00	
3245 · Stabilization Fund			773,310.93
3250 · Reserve for Petty Cash Advance			500.00
3293 · Accured Sick Leave Buy Back			69,437.76
3294 · Reserve for SDWA			9,843.12
3590 · Surplus Revenue			1,133,545.93
FISCAL CONTROL ACCOUNTS:			
3810 · Revenue Control - FY 2010		4,249,982.00	
3860 · Appropriation Control FY 2010			4,501,167.00
REVENUE ACCOUNTS:			
4210 · Water Revenue			70,799.30
4215 · Water Lien Revenue			11,008.58
4220 · Property Tax Revenue			9,043.09
APPROPRIATION ACCOUNTS:			
5610 · Land Acquisition Expenses			10,207.81
5640 · Cleaning Wells & Pump Repairs			14,094.34
5650 · Houshold Hazardous Waste Day			7,952.55
5660 · Leak Detection Survey			6,019.79
5665 · Hydro Study Whites Pond			2,761.08
5675 · Ground Water Study			20,000.00
5680 · Water Main Rehabilitation			265,183.84
5830 · Update Emergency Response Plan			15,000.00
5834 · SCADA System			25,145.13
5835 · Security Upgrades			29,372.63
5836 · Replacement of Chemical Tanks			24,000.00
5838 · Misc Equipment 4/28/09			17,500.00
5846 · New Trucks 4/28/09			52,000.00
5855 · Maint & Pwr Wash Water Tanks			100,000.00
5875 ·Water Treatment Facilities			109,749.28
6500 · Wastewater Studies			264,266.52
TOTAL		**10,609,985.83**	**10,609,985.83**
7000 · Debt Accounts			
7100 · Net Funded or Fixed Debt		10,930,000.00	
7600-01 · Land for Watershed Protection			2,330,000.00
7600-02 · Water Treatment Plants			8,600,000.00

DENNIS WATER DISTRICT
FISCAL YEAR 2009
REPORT OF RECEIPTS AND EXPENDITURES

CASH		
1020 · Petty Cash Advance	500.00	
1040 · Cash - Unrestricted	2,016,045.51	
1050 · Cash - Restricted	259,239.61	
1120 · Investments - Unrestricted	131,647.17	
1130 · Investments - Restricted	131,047.22	
BALANCES AS OF JUNE 30, 2008		2,538,479.51
RECEIPTS		
RECEIVABLES		
1410 · Water Receivables	3,435,433.19	
1415-09 · FY 2009 Water Liens	3,783.21	
1509 · FY 2009 Real Estate Taxes	252,228.42	
1609 · FY 2009 Personal Property Taxes	2,770.37	
		3,694,215.19
PAYROLL AGENCIES		
2100-01 · Federal Income Tax Withheld	151,724.00	
2100-02 · FICA/Medicare Taxes Withheld	15,785.40	
2100-03 · State Income Tax Withheld	67,868.29	
2100-04 · County Retirement Withholdings	112,821.32	
2100-06 · Employee Direct Deposits	804,792.93	
2100-08 · Short Term Disability Premiums	3,996.32	
2100-09 · Deferred Compensation	69,039.09	
2100-10 · Accident Insurance	564.20	
2100-11 · AFLAC - Accident Insurance	1,005.48	
2100-12 · AFLAC - Short Term Disability	3,800.51	
2100-13 · AFLAC NE Cancer Insurance	1,860.22	
2100-14 · AFLAC NE Life Insurance	1,017.12	
2100-50 · Health Insurance - Active	101,845.38	
2100-51 · Dental Premiums	7,213.78	
2100-52 · Health Premiums - Retirees	2,199.00	
2100-53 · Life Insurance Premiums	399.80	
		1,345,932.84
BOND PROCEEDS		
2980-40 · Mass. Water Pollution Abatement Trust		6,431,582.15
RESERVES		
3179-01 · Accrued Payrolls FY 2009	35,836.15	
3179-02 · Accounts Payable Encumbrances FY 2009	54,170.22	
3179-03 · Workers Comp Audited Premiums FY 2009	5,000.00	
3244 · Property & Casualty Claims	23,328.41	
3245 · Stabilization Fund	12,299.42	
3293 · Accrued Sick Leave Buy Back	10,428.91	
		141,063.11
REVENUES		
4240 · Income on Available Funds	34,046.78	
4250 · Penalties & Interest on Taxes	420.05	
4640 · Tank Rental Fees	208,151.78	
4840 · Miscellaneous Receipts[1]	493,437.35	
		736,055.96
TOTAL RECEIPTS AND CASH BALANCES AS OF JUNE 30, 2009:		***14,887,328.76***

RECEIPTS AND EXPENDITURES CONTINUED...

EXPENDITURES

RECEIVABLES - Refunds		
1410 · Water Receivables		1,168.67
PAYROLL AGENCIES		
2100-01 · Federal Income Tax Withheld	151,724.00	
2100-02 · FICA/Medicare Taxes Withheld	15,785.40	
2100-03 · State Income Tax Withheld	67,868.29	
2100-04 · County Retirement Withholdings	112,844.42	
2100-06 · Employee Direct Deposits	804,792.93	
2100-08 · AFLAC NY Short Term Disability	3,996.12	
2100-09 · Deferred Compensation	69,039.09	
2100-10 · AFLAC NY Accident Insurance	563.94	
2100-11 · AFLAC - Accident Insurance	1,009.34	
2100-12 · AFLAC - Short Term Disability	3,809.84	
2100-13 · AFLAC NE Cancer Insurance	1,879.36	
2100-14 · AFLAC NE Life Insurance	1,017.12	
2100-50 · Health Insurance - Active	100,300.41	
2100-51 · Dental Premiums	7,006.08	
2100-52 · Health Premiums - Retirees	2,199.87	
2100-53 · Life Insurance Premiums	389.28	
		1,344,225.49
RESERVES		
3169-01 · Accrued Payrolls FY 2008	34,852.58	
3168-02 · Accounts Payable Encumbrances FY 2008	4,255.43	
3168-03 · Wworkers Comp Audited Premiums FY 20	2,141.00	
3230 · Premium on Sale of Bonds	2,728.42	
3241 · Reserve for Mass Sales Tax	1,689.56	
3244 · Property & Casualty Claims	27,252.64	
3294 · Reserve for SDWA	8,266.25	
3293 · Accrued Sick Leave Buy Back	4,014.72	
		85,200.60
OPERATING & MAINTENANCE		
5000-01 · Gasoline	27,089.97	
5000-02 · Tractor Expense	6,643.37	
5000-03 · Truck Maintenance & Repairs	11,776.91	
5000-04 · Misc Equip Repairs & Mainten	4,579.43	
5000-05 · Electricity	243,778.56	
5000-06 · Diesel Fuel	7,454.03	
5000-07 · Heating - Main Station	2,506.53	
5000-08 · Heating - Booster Station	1,774.59	
5000-09 · Sick Leave Buy-Back	29,210.00	
5000-11 · Treatment Chemicals	258,538.65	
5000-12 · Propane Gas	9,962.15	
5000-13 · Treasurer's Expense	2,017.63	
5000-15 · Mains & Hydrants	17,421.96	
5000-16 · Legal Services	15,241.00	
5000-17 · Postage Expenses	20,771.64	
5000-18 · Printing & Advertising	6,747.60	
5000-19 · Office Expenses	8,514.77	
5000-20 · Tool Expense	5,575.75	
5000-21 · Meters & Parts	73,193.41	
5000-23 · Superintendent's Expense	788.98	

RECEIPTS AND EXPENDITURES CONTINUED...

5000-24 · Licenses, Dues & Training	2,730.00	
5000-26 · Safety Equipment & Supplies	2,059.72	
5000-27 · Substance Abuse Free Workplace	165.00	
5000-28 · Communication Expenses	14,302.12	
5000-29 · FICA/Medicare & UHI Tax Expense	15,820.33	
5000-30 · Group Insurance Costs	309,652.08	
5000-31 · County Retirement Assessment	181,355.00	
5000-34 · Computer Expenses	13,851.51	
5000-35 · Uniforms, Rugs Rentals	18,985.19	
5000-36 · Rubbish Removal	1,300.00	
5000-37 · General Supplies	2,412.27	
5000-38 · Other Necessary Expenses	3,152.08	
5000-40 · Water Quality Expenses	33,733.68	
5000-60 · Payroll - Office & Admin	381,749.66	
5000-61 · Payroll - Water Works	807,558.69	
5000-62 · Payroll - On Call Duty	33,091.28	
5000-63 · Payroll - Station Duty	31,806.20	
5000-64 · Payroll - Overtime	32,986.34	
5000-66 · Payroll - Def Comp DWD share	24,833.36	
5000-67 · Payroll - Longevity	9,400.00	
5010 · Repairs & Maintenance	69,326.30	
		2,743,857.74
APPROPRIATIONS		
5130 · Elected Officials Salaries	7,956.00	
5140 · Principal on Debt	330,000.00	
5150 · Interest on Debt	129,343.31	
5155 · Bond Issuance Costs	6,900.00	
5150 · Household Hazardous Waste Colleciton Day	9,000.00	
5160 · Financial Audit FY 2007	12,275.00	
5168 · Unpaid Bills of Prior Years	290.00	
5170 · Insurance Expense	96,071.46	
5190 · Water Services	49,358.21	
5640 · Cleaning Wells & Pump Repairs	117,390.48	
5650 · Household Hazardous Waste Collection Day	829.51	
5680 · Water Main Rehabilitation	4,534.80	
5833 · Emergency Repairs to Dump Truck	9,065.77	
5834 · SCADA System	395.00	
5839 · Misc Equipment - 4/29/08	16,787.05	
5844 · Misc Equipment - 4/24/07	2,898.54	
5848 · New Trucks 4/29/08	1,864.08	
5860 · Painting Exterior Rte 134 Tank	42,551.53	
5875 · Iron & Manganese Removal Project	6,498,072.56	
6500 · Wastewater Studies	66,071.71	
		7,401,655.01
CASH		
1020 · Petty Cash Advance	500.00	
1040 · Cash - Unrestricted	1,905,615.59	
1050 · Cash - Restricted	567,186.93	
1120 · Investments - Unrestricted	631,794.73	
1130 · Investments - Restricted	206,124.00	
BALANCES AS OF JUNE 30, 2009		3,311,221.25
TOTAL EXPENDITURES AND ENDING CASH BALANCES:		***14,887,328.76***

DENNIS WATER DISTRICT
FISCAL YEAR 2009 PAYROLL

Regular Employees	Position	Regular	Treatment Plant Project Straight	Overtime	Treatment Plant Project Overtime	Longevity	Total
Alex, Peter W	Meter Technician	44,078.88	1,182.88	1,448.72	2,970.87		49,681.35
Avery, George A	Station Maintenance	63,601.02	97.76	1,134.51	695.37	1,200.00	66,728.66
Barboza, Robert J	System Maintenance	63,920.05	7,695.62	18,677.26	13,982.56	400.00	104,675.49
Blake, Edward S	Meter Technician	39,495.93	162.95	262.62	134.79		40,056.29
Curtis, Adam L	Laborer	44,078.88	4,885.83	1,909.79	9,983.54		60,858.04
Davis, Kenneth J	System Maintenance	54,371.91	63.44	1,650.21	7,838.66		63,924.22
Gaumont, Karen	Administrative Assistant	59,172.99					59,172.99
Griffin, David W	System Maintenance	56,016.04	517.46	20,364.91	3,254.62	800.00	80,953.03
Harris, Franklin L	Meter Technician	54,644.06		17,644.77		1,100.00	73,388.83
Hollis, Scott	System Maint/Mechanic	52,189.95	1,300.80	3,911.07	8,226.90		65,628.72
Kraul, Joseph D	Electrician	42,735.46	1,467.05	783.00	598.61		45,584.12
Lang, Elsie M	Administrative Assistant	21,454.42					21,454.42
Larkowski, David A	Superintendent	107,748.26		493.30	25,267.25	1,400.00	134,908.81
Luedeker, Ralph H	Administrative Assistant	60,332.64		0.00		1,300.00	61,632.64
Majka, Joshua D	Meter Technician	41,826.64	827.64	696.83	8,277.72		51,628.83
Martino, Carole J	Administrative Assistant	40,849.28					40,849.28
McMahon, Sheryl A	Clerk & Treasurer	107,748.26				1,200.00	108,948.26
Moore, Jonanthan C	Laborer	50,084.00	8,807.94	1,579.51	17,148.29		77,619.74
Pina, Jr., Profirio J	Machine Operator	63,920.06	5,391.34	2,391.65	10,672.98	400.00	82,776.03
Ritchie, James E	Assistant Superintendent	89,719.40	0.00	10,458.31	20,923.48	600.00	121,701.19
Saunders, Brian J	Station Maintenance	65,998.24	446.10	14,774.98	9,528.94	900.00	91,648.26
Teixeira, Anthony	Backflow Device Inspector	5,744.48					5,744.48
		$ 1,229,730.85	$ 32,846.81	$ 98,181.44	$ 139,504.58	$ 9,300.00	$1,509,563.68

SUPERINTENDENT'S REPORT
2009

Our Iron & Manganese Removal Project was easily the most consuming project the District has ever undertaken. Work began on the project in the Spring of 2008 and as the project moved into 2009 we could see it coming to fruition. The year began with the continued installation of the nearly 25,000 feet of raw and finish water mains, installation and upgrade of variable frequency motor drives, pumping equipment, upgrades to the SCADA system and construction of the backwash lagoons. The District's general contractor for the project, Kinsmen Corporation of Hooksett, NH, continued their steady progress constructing the plant filter systems. By summer time, most of the equipment testing had been completed as well as the installation and start-up of the filter operator interface programming that had been contracted with the filter supplier The Roberts Filter Group of Darby, Pennsylvania. Following a successful run-through of the system with Massachusetts Department of Environmental Protection, we had our approval to begin operational phase-in of the south plant. As the summer progressed, the capacity of the south plant continued to increase as we simultaneously began phasing in operations of the north plant. As early fall approached, both plants were treating water at 100% of their capacity of approximately eight million gallons per day.

On October 3, the District held an Open House at the south treatment plant. In appreciation of the hardest working and longest serving member of the Board of Water Commissioners the plant was dedicated to Edward A. Crowell who retired from the District in April following 42 years of service. On behalf of the District employees, I want to express our special thanks to Ed for his leadership, trust and pride in our ability to service the Town's residents and his vision and commitment to providing quality water and services at affordable rates. We all miss him, his stories and we wish him the very best retirement.

As a final wrap-up to the project, it was our privilege to accept the Water Works Pride Award given by the Massachusetts Water Works Association. The award is in recognition of public water systems that exemplify commitment and professionalism in the water works industry. The Dennis Water District received the award due to the level of commitment and esprit de corps demonstrated by the scope and success of the recently completed treatment plant project. Through leadership, vision and its hands-on approach throughout the entire project, the District was able to manage the costs of this project in such a unique way it was virtually unheard of by DEP and recognized that it stood out as an exemplary project. I am proud to have been a part of this team effort and appreciate the confidence Water Commissioners Ed Crowell, Paul Prue and Charlie Crowell had in our ability to take on the unprecedented scope of this project.

Water production for 2009 was down by about 12% due mostly to a cold and rainy June and July. I can't ever remember wearing a sweat shirt at a forth of July picnic. Pumping for the month of July alone was down by 60 million gallons, approximately 30%. By the end of July and into August, summer weather had finally arrived and pumping for the remainder the year returned to normal. As we move into the last half of the Fiscal Year 2010, we will monitor the revenue receipts and adjust expenditures accordingly. There are two major components to our

revenue stream; the Customer Account Charge and Water Usage Rates. Each customer pays the Account Charge regardless of the amount of water used, if any. In addition, each customer pays for the actual amount of water used. The rational being that small users, like a seasonal cottage that may only use a few thousand gallons per year, contributes a fair share through the Account Charge to help support the system while large users, who pay higher water rates, not only contribute by paying the Account Charge but support the costs associated with their higher demand for water. This means that small users are not supporting the largest users in town but, all customers contribute a fair share towards maintenance and improvements to the infrastructure.

I'd like to congratulate and welcome Mr. Peter McDowell to the Board who won the April 2009 election replacing retiring Chairman Edward A. Crowell and congratulations to Commissioner Paul Prue who has assumed the role of Board Chairman. As I have said many times throughout my tenure as Superintendent, the accomplishments of the District would not be possible if it were not for the conscientious and dedicated efforts of the employees who do the day-to-day work of operating and maintaining the District and to the voters and customers of the District, I offer my thanks for their support.

Respectfully submitted,

David Larkowski
Superintendent

Pumping Equipment Operations 2009

	# of days
Main Station – Old Bass River Road	
5 submersible electric pumps with a total capacity of 700 gpm pump	193
Sub-Station 1 – Old Chatham Road	
40 hp electric motor w/350 gpm pump	169
Sub-Station 2 – Old Chatham Road	
20 hp electric motor w/200 gpm pump	169
Sub-Station 3 – Old Chatham Road	
20 hp electric motor w/250 gpm pump	168
Sub-Station 4 – Old Bass River Road	
30 hp electric motor w/350 gpm pump	121
60 hp lp gas engine w/right angle drive	12 hrs
Sub-Station 5 – Route 134	
30 hp electric motor w/450 gpm pump	152
60 hp lp gas engine w/right angle drive	8 hrs
Sub-Station 6 – Old Bass River Road	
30 hp electric motor w/150 gpm pump	113
60 hp lp gas engine w/right angle drive	8 hrs
Sub-Station 7 – Airline Road	
40 hp electric motor w/450 gpm pump	188
60 hp lp gas engine w/right angle drive	8 hrs
Sub-Station 8 – Airline Road	
40 hp electric motor w/350 gpm pump	190
60 hp lp gas engine w/right angle drive	12 hrs
Sub-Station 9 – Grassy Pond Drive	
75 hp electric motor w/650 gpm pump	193
150 hp lp gas engine w/right angle drive	8 hrs
Sub-Station 10 – Airline Road	
75 hp electric motor w/700 gpm pump	176
150 hp lp gas engine w/right angle drive	12 hrs
Sub-Station 11 – Old Bass River Road	
60 hp electric motor w/500 gpm pump	142
Sub-Station 12 – Old Chatham Road	
75 hp electric motor w/700 gpm pump	155
Sub-Station 13 – Center Street	
Decommissioned December 1999	
Sub-Station 14 – Baker's Pond Road	
60 hp electric motor w/ 450 gpm pump	165

	# of days
Sub-Station 15 – Baker's Pond Road	
75 hp electric motor w/700 gpm pump	168
7.0 liter lp gas engine w/right angle drive	8 hrs
Sub-Station 16 – Timber Lane	
40 hp electric motor w/ 450 gpm pump	166
Sub-Station 18 – Hokum Rock Road	
75 hp electric motor w/ 700 gpm pump	198
7.0 liter lp gas engine w/right angle drive	
Sub-Station 19 – Setucket Road	
75 hp electric motor w/700 gpm pump	150
4.9 liter lp gas engine w/right angle drive	12 hrs
Sub-Station 20 – Setucket Road	
75 hp electric motor w/700 gpm pump	185
Sub-Station 21 – Route 134	
75 hp electric motor w/700 gpm pump	71
Sub-Station 22– Route 134	
75 hp electric motor w/700 gpm pump	209
Sub-Station 23– Old Chatham Road	
75 hp electric motor w/700 gpm pump	68
Booster Station – Route 134	
2 – 345 hp caterpillar diesel engines w/3,500 gpm pump on each motor (manual)	10 hrs

VEHICLE & EQUIPMENT OPERATIONS 2009

Truck #		Miles
2	2008 Ford Expedition	11,110
4	2003 Chevrolet ¾-ton pickup	12,221
6	2003 Chevrolet ¾-ton pickup	8,318
8	2000 Chevrolet ½-ton pickup	2,866
10	2002 Chevrolet ½-ton pickup	8,156
12	2005 Chevrolet 1-ton dump truck	2,278
14	2008 Ford F-150 ½-ton pickup	11,502
16	2003 GMC cargo van	8,454
18	2007 Chevrolet ½-ton pickup	9,447
20	2002 Chevrolet dump truck	1,889
22	1999 GMC dump truck	1,524
24	2008 Chevrolet 2500 utility truck	11,268
26	2001 Chevrolet ½-ton pickup	6,438
28	2008 Ford F-350 utility truck	6,124
30	2002 Chevrolet cargo van	7,101
32	2000 Chevrolet 1-ton service truck (traded)	1,360
32	2010 Ford F350 utility truck	4,932
	TOTAL MILEAGE	***114,988***

	Equipment	Hours
1993	Gravely	32
1993	Sullivan Air Compressor	40
2000	Ingersol Rand Air Compressor	26
2000	Kobelco Excavator	155
2001	John Deere Backhoe Loader	76
2003	John Deere Backhoe Loader	373
2005	John Deere Backhoe Loader	234
2005	John Deere Mini-excavator	212
2005	Gravely	192
2004	Mower	56
2004	Roller	11
2000	100kw Generator Set #1	25
2000	100kw Generator Set #2	32

CUSTOMER TRANSACTIONS – FY 2009

Meter Replacements	875
Seasonal Meter Removal/Re-install	3,822
Final Readings	273
Backflow Prevention Device Tests	162
Demand Letters Processed	315
Demand Shut-Off Processed	96
Frozen Meters	26
Meter Tampering	0
Service Calls/Repairs	469
Fire Sprinkler Standby	93
Renewal and Relocation of Water Services	40
Curbstop Repairs	31
Payments Processed	29,974

NEW SERVICES
FY 2009

Dennis	3
East Dennis	3
Dennisport	4
West Dennis	1
South Dennis	3
TOTAL	***14***

WATER PUMPED IN 2009
In Gallons

January	42,277,000
February	37,603,300
March	43,967,900
April	48,837,800
May	80,126,900
June	97,800,600
July	137,217,300
August	163,280,500
September	107,654,400
October	50,607,000
November	40,334,700
December	37,002,100
Total	***886.709,500***

MAIN LINE GATES & HYDRANTS
as of December 31, 2009

Year	20”	16”	12”	10”	8”	6”	2”	Total	Hydrants
All Previous	14	10	194	142	574	2419	200	3553	1516
2000					8	16		24	11
2001					3	15	-16	2	11
2002					7	25	-15	17	7
2003				1	2	10		13	12
2004					5	15	-3	17	12
2005				1		16	-3	14	8
2006					5	12	-1	16	7
2007						8		8	1
2008		10	13		15	24	1	63	14
2009					1	5			2
Totals	14	20	207	144	620	2565	163	3727	1601

WATER MAINS
as of December 31, 2009

Year	24”	16”	12”	10”	8”	6”	4”	2”	Total
Previous	15,998	10,978	137,233	91,260	411,239	452,410	359	73,497	1,192,974
2000					1,944	3,514		-2,891	2,567
2001					980	3,519		-3,707	792
2002					1,914	5,997		-3,890	4,021
2003				392	2,634				3,026
2004					2,464	4,008		-1,899	4,573
2005				242		3,780		-846	3,176
2006					1,013	1,321	14	-39	2,309
2007						843			843
2008		4,904	12,047		8,164	577		105	25,797
2009					1,132	740		-306	1,566
	15,998	15,882	149,280	91,894	431,484	476,709	373	60,024	1,241,644

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

PRODUCTION DEMAND STATISTICS

Calendar Year 2009

Largest Day	September 6	7,298,600
Smallest Day	November 30	738,100
2nd Largest Day	August 16	6,975,600
2nd Smallest Day	December 1	741,400
Largest Week	Aug 16—Aug 22	42,874,500
Smallest Week	Dec 6—Dec 12	7,618,800
2nd Largest Week	Aug 9—Aug 15	37,716,900
2nd Smallest Week	Dec 13—Dec 19	7,854,800
Largest Month	August	163,280,500
Smallest Month	December	37,002,100
2nd Largest Month	July	137,217,300
2nd Smallest Month	February	37,603,300

SYSTEM STATISTICS

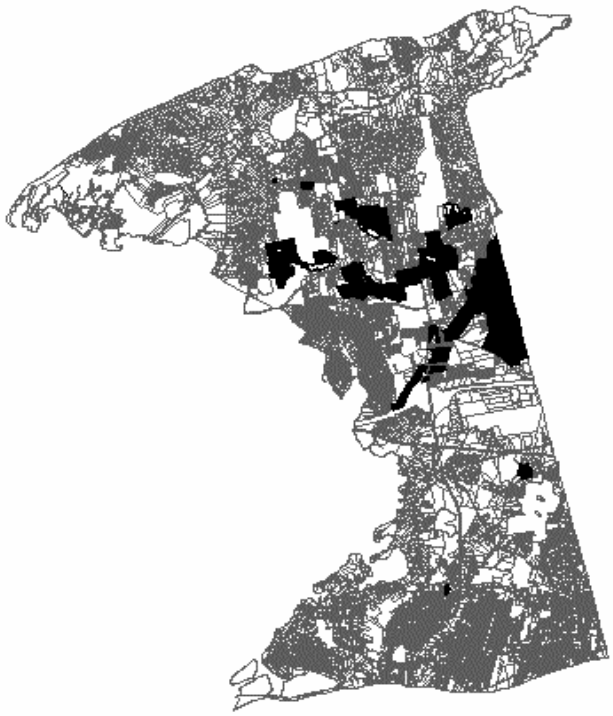
Calendar Year 2009

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	8,000,000 Gallons Per Day

LAND OWNED BY DISTRICT (acres)

Land Owned as of 12/31/09 998.41

Total Watershed Conservation Restrictions Held: 63.23



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 was once again set at zero for 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 - 6/30/07 - Account Charge $25 - no allowance
7/1/07 - 6/30/08 - Account Charge $36 - no allowance

CONSUMPTION

7/1/92 - 6/30/94 - $1.50 - no allowance
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

Rates for water billed during each six-month billing cycle are per one thousand gallons.

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 - 6/30/09 - $0.0090 per thousand gallons

***LAND ACQUISITON 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 is expected to continue for approximately 13 years.

DENNIS WATER DISTRICT
BY - LAWS
(In effective as of 12/31/2008)

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 unexplored 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 conversation 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.

Dennis Water District

Main-Line News

www.denniswater.org

Volume 16, No. 1 February 2009

Board of Water Commissioners
* * * * *
Edward A Crowell, *Chairman*
Paul F. Prue
Charles F. Crowell

Appointed by Water Commissioners
* * * * *
David Larkowski, Superintendent
Sheryl A McMahon, Clerk & Treasurer
James Ritchie, Asst. Superintendent

Construction Project Well Underway

Kinsmen Corporation, the general contractor for the construction of the District's two iron and manganese treatment plants, has both buildings erected and the interior work, including filter piping, electrical components and pre-treatment equipment moving forward on schedule.

The District's self performing work has also been moving forward as planned. The 24,000 linear feet of raw and finish water mains are installed along with most of the work for the backwash water lagoons having been completed. The project also called for pump upgrades to 10 wells and the installation of variable frequency drives which are near completion. Included in the scope of work for the District were upgrades to the existing corrosion control treatment plants in order to accommodate the redirecting of water from the wells.

The Board is pleased to report that the project is not just on schedule but, on budget as well. To date, there has been only a slight cost increase in construction cost through change orders totaling $10,000. The majority of these were for the replacement of worn pump parts, some modifications to light fixtures and deletion of some work.

If all continues to proceed according to plan, the new treatment facilities are scheduled to conduct preliminary start-ups in the late spring and early summer. Earth Tech, Inc. the design and consulting engineers for the project, will be training District operators during the initiation phase and for the first full year of operations.

The District anticipates extending an invitation to customers in the fall to an open house to view the facilities and observe the operations under *"run"* conditions.

The project is proceeding with all good speed and as such, it will be necessary to raise the water rates to meet the District's debt service obligation and anticipated increases in operational expenses when the treatment plants go on line. The exact amount of the increases had yet to be decided at the time this newsletter was being printed.

DATES TO REMEMBER:

Annual District Election — Wednesday, April 22

Annual District Meeting — Tuesday, April 28

Construction workers help guide the setting of one of six pressure filter vessels hoisted into place by a crane. The six vessels will be capable of removing iron and manganese from 4,000,000 gallons of water per day. The vessels are filled with Greensand Plus filtration media.

District Officials Mourn the Loss of Charles E. Chamberlain, Jr.

Charles E. Chamberlain, Jr. passed away on January 8, 2009, following a lengthy illness. The Board of Water Commissioners and District staff wish to express their condolences to his family and friends.

Mr. Chamberlain was an original member of the Dennis Water District Finance Committee having served continuously since it was established by District Bylaw in 1977. He brought a keen business sense to the meetings in which the District's annual budget and capital projects were reviewed by the Finance Committee and recommendations made to the District voters. Mr. Chamberlain served as Chairman and provided counsel and guidance. He shared a vision with the Water Commissioners and supported their efforts to build the best water system possible while maintaining reasonable water rates. His practical approach to budgeting and wonderful sense of humor will be greatly missed.

WATER COMMISSIONERS SUPPORT CHANGES TO METER LAWS

Meter Tampering — Did you know that taking water without a meter is a crime? Massachusetts General Laws, Chapter 165 Sec. 11, establishes a $100 fine against anyone having tampered with a water meter. Theft of water is a serious offense because all of the District's customers must cover the cost. The Massachusetts Water Works Association has drafted legislation that will increase the fine to a maximum of $1,000. This is the current fine for tampering with an electric or gas meter. The Board of Water Commissioners supports this legislation because $100 is simply not enough of a deterrent or reimbursement for stealing water.

All water used by all District customers must be metered. Anyone found in violation of the law will be fined. Failure to pay the penalty may result in the loss of water service to the property. Removing the water meter from the water service is against the law and is considered meter tampering. For many years the District has sealed water meters as a means of detecting meter tampering. The water meter cannot be removed from the line without breaking the seal. Preserving the integrity of the water meter seal is the responsibility of the property owner.

Seasonal customers are reminded that when you, your plumber or handyman, winterizes your home, the water meter must not be removed or loosened from the water service line. Customers must call the District and arrange to have their water service turned off at the street, drained and the meter removed. Only District personnel are authorized to perform this work as provided by the District's Bylaws.

Meter Testing — Did you ever use more water than you expected and think there was something wrong with the meter? Many customers who receive unexpectedly high bills and cannot account for the water believe that there must be something wrong with the meter. The testing of meters for accuracy is governed by Chapter 40, Section 39I, MGL. The law states that a meter is deemed accurate if it measures within plus or minus two percent. If the meter has under recorded by more than 2%, the District will bill for the water and charge for the meter test. If the meter is deemed within plus or minus 2% the District will bill for the meter test. If the meter has over recorded by more than 2%, the District will credit for the percentage over billed and there is no charge for the test. The District charges a service call to retrieve the meter from the property in order to perform the test.

The Water Commissioners are supporting draft legislation that will increase the meter testing fee from $3 per test to an amount that accurately reflects the cost of the service. ***"Meters" continued in next column…..***

HOUSEHOLD HAZARDOUS WASTE COLLECTION DAY

Saturday, June 6, 2009
Tony Kent Arena
9 am to 1 pm

Each year the Dennis Water District sponsors a HHWC Day in June. The Town of Dennis also sponsors a HHW Collection Day in September.

The free collection and disposal of residential HHW is an environmentally important service provided to the citizens of Dennis. Please continue to act responsibly. Save your HHW materials and bring them to the second Collection Day.

PROTECT OUR WATER SUPPLY.

NEVER **pour HHW products down the sink or toilet or on the ground.**

"Meters" continued….

The District requires that a written meter test request form be signed and submitted by the owner of record. Historically, it is rare to find a water meter that tests outside of the accuracy tolerances provided by law.

Customers with questions regarding water meters are encouraged to call the District office or visit our website for reference information.

Wastewater Management Planning Update

Since 2004, the District has provided continuous financial and administrative support for the development of a Comprehensive Wastewater Management Plan for the Town. In order to make a permanent commitment to undertaking wastewater management, in April 2008, the voters approved the filing of special legislation which would designate the District as the entity that will provide an economical and efficient wastewater management system within the Town of Dennis. The proposed legislation was the collaborative effort of Representative Cleon Turner *(D–1st Barnstable),* consultant Nate Weeks of Stearns & Wheler, District Counsel Attorney John C. Creney and members of the District staff.

Upon the Water Commissioners' request, the Board of Selectmen has given their assent to having the District assume this role for the Town. It will also be necessary to have the Town of Dennis voters support the legislation at the Annual Town Meeting on May 5, 2009.

The District continues to wait for the technical reports to be completed by the Massachusetts Estuaries Project. A report on Sesuit Creek and Harbor is expected by July 1 followed by Bass River by December 31. Please visit our website for more frequent updates.

Dennis Water District

Main-Line News

www.denniswater.org

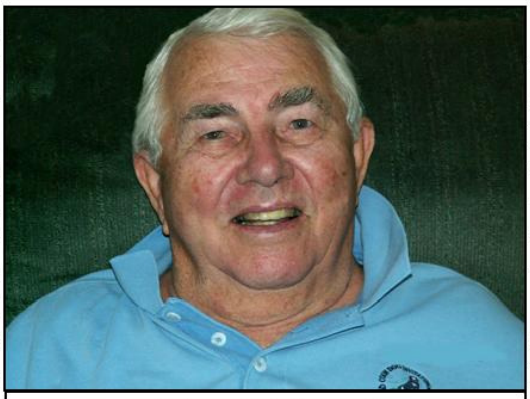
Volume 16, No. 2 August 2009

Board of Water Commissioners
* * * * *
Paul F. Prue, *Chairman*
Charles F. Crowell
Peter L. McDowell

Appointed by Water Commissioners
* * * * *
David Larkowski, Superintendent
Sheryl A McMahon, Clerk & Treasurer
James Ritchie, Asst. Superintendent

EDWARD A CROWELL, CHAIRMAN RETIRES AFTER 42 YEARS OF SERVICE

In the spring of 1967, after having been told he would have to wait for at least a year to have a water service line installed, Edward A. Crowell decided that progress was needed at the Dennis Water District when he observed the District work crew digging a water service trench by hand. He took out nomination papers to run for Water Commissioner. Ed was the winner garnering 635 votes of the 1,307 cast from a field of five candidates.



Edward A Crowell
Water Commissioner—42 years
Chairman—32 years

Serving in public office was nothing new to the 41-year old Dennis native when he first became Water Commissioner. At the age of 18, he joined the Navy and served two years patrolling in PT boats until his discharge in 1945. Returning to his home town to start his own business, Ed was elected to his first public office as a Cemetery Commissioner. He was just 21 years old. He was later elected as Park Commissioner followed by an appointment to the Conservation Commission.

Once elected as a Water Commissioner, Ed set out to achieve some well defined goals for the District he believed was in the best interest of the citizens of Dennis. His first priority was to see the District become self-sufficient by eliminating the District tax and rely only on the water rates to support the operations and maintenance of the system. Another priority was to preserve as much open space as possible for protecting the wells and water recharge areas. And third, to provide the best quality drinking water possible at a reasonable cost. In a recent interview, Ed said that two of the "smartest things I ever did here at the District was convincing David Larkowski to accept the appointment as Superintendent and hiring Sheryl McMahon as Clerk-Treasurer". "They make a great team working together to ensure that the goals of the Board are implemented", he said.

When asked what he was most proud of at the District, he said that the District's ability to pay "cash" for the construction of the corrosion control stations and the Hokum Rock water tank, along with the purchase of hundreds of acres of land without the need for borrowing and without a tax rate were true accomplishments.

Ed has four children and is married to Debbie Crowell. His two sons Carver and Tyler are part of the family business at Crowell Construction, daughter Sandra is a psychologist practicing here in Dennis and daughter Ashleigh is attending veterinary school.

At the last meeting Ed officiated on April 9, 2009 he said that his biggest disappointment was not being able to run again for a fifteenth term.

The Dennis Water District experienced a great deal of growth and development over the course of Ed's tenure. Through his wisdom, leadership and vision, the District was able to keep pace with the Town's growth, provide quality potable water in sufficient quantity for the extinguishment of fires and build an infrastructure that is the envy of many municipalities.

District and Town officials, friends and family joined together for refreshments and a light-hearted roast of our long-serving Chairman following the Annual District Meeting on April 28, 2009. All of us here at the District wish you all the best and many years of happiness in your retirement Ed. You are sorely missed by those who served with you and for you.

Newly Elected Water Commissioner Joins Board

Peter L. McDowell , a Dennis native and real estate business owner for more than 44 years was elected Water Commissioner on April 22, 2009, filling a vacancy left by Edward A. Crowell who did not seek re-election. Mr. McDowell received 1,163 votes of the 2,120 cast in the largest District election turn-out in more than forty-years.

Mr. McDowell has served as a member of the Dennis Finance Committee, Dennis Planning Board and as Dennis Town Moderator. He also served as a State Representative and was a Commissioned Officer in the Army Reserve National Guard.

HOUSEHOLD HAZARDOUS WASTE COLLECTION DAY

Saturday, September 12, 2009
Tony Kent Arena from 9 am to 1 pm

In a cooperative effort, the Dennis Water District and the Town of Dennis each sponsor a HHWC Day. The District's was held last June. The Town of Dennis will hold their collection day in September.

The free collection and disposal of residential HHW is an environmentally important service provided to the citizens of Dennis. Please continue to act responsibly. Save your HHW materials and bring them to the second Collection Day.

PROTECT OUR WATER SUPPLY
***NEVER* pour HHW products down the sink or toilet or on the ground.**

CAMERA! LIGHTS! ACTION!

The Board of Water Commissioners has embarked on a new venture: the broadcasting of their regular monthly meetings. The Board meetings are generally scheduled for the fourth Thursday of each month and are held at the Dennis Police Department in the Thomas Martin Training Room at 6:30 PM (except for Nov. 18 and Dec. 17 to avoid Thanksgiving and Christmas).

In cooperation with the Dennis Board of Selectmen and the Town of Dennis Information Technology Department the meetings will be broadcast live on Cable Channel 18 beginning with the August 27 meeting. Meetings will also be rebroadcast as scheduling and time permits. Please check the District's website for dates, agendas and minutes of Board meetings. A link for download streaming video of previous meetings is available on both the District's and the Town's website.

READING THE WATER METER

Being able to locate and read your water meter has several benefits. Since the District reads and bills for water consumption only twice per year, we strongly urge customers to read their meters on a regular basis, preferably monthly. This will help you identify extraordinary water usage, discover leaks and verify the accuracy of your water bills.

Write down all the numbers on the face of the meter, including the sweep hand. When you take the next reading, simply deduct the previous reading and this will tell you how many gallons were used.

Additional information on reading your water meter is available on-line or at the District office.

NEW WATER RATES IN EFFECT FOR AUGUST BILLS

In the spring of 2008, the District voters approved a borrowing authorization of $9.5 million for the construction of two iron and manganese treatment plants, each capable of processing 4 million gallons per day. The Massachusetts Water Pollution Abatement Trust (Trust) approved the project for a 2%-interest state revolving fund loan of $8.6 million. It is estimated that the Trust loan will save the District ratepayers more than $2 million in interest costs over the life of the loan.

Generally, the Trust sells permanent bonds for approved projects in October of each year. Dennis was scheduled to receive approximately half of the permanent funds (about $4 million) and the balance would be provided with interim loans until October 2009 after the project was complete and the balance of the permanent bond financing would be issued.

As we all know all too well, the country experienced a deepening financial crisis last fall which resulted in the Trust postponing the sale of its bonds until the market improved. Given the market conditions and accelerated progress being made on the construction project, the Trust decided to issue all of the bonds for this project in March 2009. This change meant that the first full principal and interest payment on the new loan would be due and payable in July 2009. This first payment increased the debt service by $567,600.

In order to meet this obligation, in addition to other significant increases in the operating budget such as treatment chemicals, insurances, employee benefits, etc., it was necessary to increase both the Account Charge and the water usage rates. The following table compares the old rates with the new rates:

	Old Rate	New Rate	Estimated Revenue Increase
Account Charge (semi-annual)	36.00	42.00	167,520.00
Per Thousand for first 50,000 gallons	2.00	2.50	282,721.00
Per Thousand for next 50,000 gallons	2.50	3.00	63,469.00
Per Thousand for usage 101,000 gallons +	3.00	3.50	73,406.00
	Total Revenue Increase		587,116.00

The most significant impact to the FY 2010 budget was the dramatic increase in the debt service, which more than doubled. Although the District did assess a property tax this past year, the Board of Water Commissioners does not anticipate the need for any such assessment over the next several years. Nearly 95% of the District's revenues are generated by water rates, charges and services provided to our customers. The remaining 5% comes from cellular antenna leases on the District's water tanks.

Please feel free to call or email the District office if you should have any questions about your water bill.

Dennis Water District

Town of Dennis

2009 Annual Water Quality Report

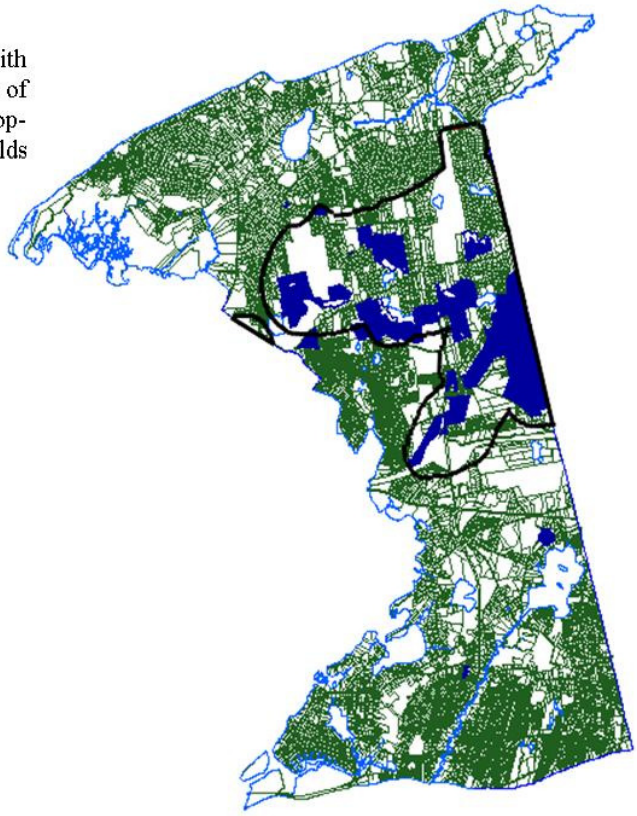
MA Public Water Supplier ID # 4075000

Dear Customer: We are pleased to provide you with our latest water quality summary covering the past year. The Safe Drinking Water Act (SDWA) requires that utilities issue an annual "Consumer Confidence Report" to customers in addition to other notices that may be required by law. This report details our sources of water, what it contains, and the problems and risks our testing and treatments are designed to prevent. The Dennis Water District is committed to providing you with the safest and most reliable water supply possible. Informed consumers are our best allies in maintaining safe drinking water.

Our water supply meets all state and federal water quality standards. We encourage public interest and participation in our community's decisions affecting drinking water. The Board of Water Commissioners meets regularly on the fourth Thursday of each month at 6:00 p.m. in the Martin Training Room at the Dennis Police Department, 96 Bob Crowell Rd., South Dennis. Meetings are subject to change, so please call ahead to confirm the date and time (508-398-3351). The public is welcome to attend. The meetings are generally televised live and replayed on local Channel 18. You are also invited to express your comments or concerns by mailing a letter or sending an email. Please visit our website at www.denniswater.org.

Water Sources In 2009, we supplied the properties in Dennis with 886,709,000 gallons of groundwater pumped from 22 wells all located north of the Route 6. Our wells are situated on more than 1054 acres of watershed property owned or protected by the District. The following is a list of well fields including the wells that operate in those fields.

Wells 1, 2, 3, 12, 23	Old Chatham Road	2,100 GPM
Wells 4, 6, 11, 22	Old Bass River Road	1,600 GPM
Well 5	Route 134	500 GPM
Wells 7, 8, 10	Airline Road	1,300 GPM
Well 9	Grassy Pond Drive	600 GPM
Wells 14, 15	Bakers Pond Road	1150 GPM
Well 16	Timber Lane	450 GPM
Well 18	Hokum Rock Road	700 GPM
Wells 19, 20	Setucket Road	1,400 GPM
Main Station	80 Old Bass River Road	700 GPM
Well 21	Route 134	700 GPM



Emergency backup supplies would come from surrounding towns if mutual aid was needed. We have three interconnections with the Town of Yarmouth, three with the Town of Harwich and one with the Town of Brewster.

Dennis Source Water Assessment This assessment was completed by DEP to delineate the boundaries of those areas providing source water to our public water supply wells and identify, to the extent practicable, the origins of any future contaminants in the delineated area. No areas of contamination were found. The conclusions of the report found that the District has done a good job protecting its sources by acquiring or permanently restricting 1054 acres of watershed, working with the Board of Health to update our Wellhead Protection District and sponsoring yearly Household Hazardous Waste Collection Days. The report recommends that the District continue to educate consumers, through its newsletters, about source protection and to work with local businesses to ensure proper storage and handling of hazardous materials. The zones of contributions to our wells are outlined on the map above. A larger more detailed map is available at the District office and the Town of Dennis Board of Health office. Additional information about the Source Water Assessment can be obtained from the Massachusetts Department of Environmental Protection at *http://www.state.ma.us/dep/brp/dws.*

Memberships The District is a member of the following organizations: American Water Works Association, Massachusetts Water Works Association, New England Water Works Association, Plymouth County Water Works Association and Barnstable County Water Utilities Association.

Our Goal ***The District has provided water and water related services to consumers within the Town of Dennis for more than sixty years. We are committed to supplying our current and future customers with a safe and adequate water supply for fire protection and domestic use at a reasonable cost. We will take all practical measures to protect the water system's assets.***

How To Read This Table The table on the adjacent page shows the results of our water quality analyses. Every regulated contaminant that we detected in the water, even the most minute traces, is listed here. The table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public health (MCLG), the highest level actually detected, the highest to the lowest ranges detected from all our wells, the usual sources of such contamination, footnotes explaining our findings, and a key to units of measurement. Definitions of MCL and MCLG are important.

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

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

(MRDL) **Maximum Residual Disinfectant Level:** The highest level of disinfectant (chlorine) allowed in drinking water.

(MRDLG) **Maximum Residual Disinfectant Level Goal**: The level of a drinking water disinfectant below which there is no known expected risk to health.

(SMCL) **Secondary Maximum Contaminant Level:** These levels of a contaminant are developed to protect against the aesthetic qualities of drinking water and are not health based.

(ORSG) **Mass. Office of Research and Standards Guideline:** This is the concentration of a chemical in drinking water, at or below, which adverse, non-cancer health affects are unlikely to occur after chronic (lifetime) exposure.

Water-Quality Table Notes Lead and copper are elements that occur naturally in the environment. When these two elements are found in our drinking water, it is most often the result of water interacting with materials found in plumbing, not from the water source. Since 1993, the water has been treated with potassium hydroxide to raise the pH from 5.5 to 7.0. The reason for this is to minimize the corrosion of plumbing and the consumer's exposure to lead and copper. Due to the effectiveness of this treatment, the District has been placed on a reduced monitoring program. Since treatment began, we continue to meet the requirements of the Safe Drinking Water Act.

[1] Because of our treatment success with lead and copper the District is required to test for these elements every three years and these results are from the latest set of samples taken as indicated in the date in the table.

[2] Chloroform occurs naturally here on Cape Cod. Future studies by DEP are planned to determine the reasons for this.

[3] Sodium can occur naturally and can also be attributed to road runoff.

[4] The aesthetic limits for iron and manganese are .3 ppm and .05 ppm respectively.

* Data present is from the most recent testing done in accordance with regulations. Most of the data in this table is from this reporting year, however monitoring for some contaminants is less than once a year. The last dates these contaminants were tested for are in the table.

While some of our wells exceed the levels for iron and manganese, the limits were established for aesthetic reasons and ***not*** for health concerns. Levels above the recommended limits have been known to cause discoloration, taste and odor problems. They have been present in our water system as long as the District has been pumping water. We continue to monitor the iron and manganese in our wells. In 2009, the District completed the construction of two 4 million gallon per day iron and manganese removal plants to improve the aesthetics and water quality concerns associated with these minerals in the distribution system.

Lead & Copper During 2008, the District tested for Lead & Copper by taking samples from 30 homes. Lead was detected in 1 sample above the action level however, the total percent was under the limit established by EPA guidelines. A complete list of all results from this testing by the District in 2008 is available upon request or by visiting the District office during regular business hours: Monday through Friday 8 a.m. to 4 p.m. **The following is an education statement required under EPA regulations**:

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

Total Coliform The Total Coliform Rule requires systems to test for bacteria on a regular monthly schedule based on the population served. Coliforms are bacteria that are naturally present in the environment and are not harmful themselves; however, their presence can be an indicator that other potentially harmful bacteria may also be present. We are pleased to report that during routine sampling this past year we had no detection of coliform bacteria.

Emergency Response Plan Updated

In 2009, the District updated its Emergency Response Plan (ERP) which meets Massachusetts Departments of Environmental regulations 310 CMR 22.04(13) and Massachusetts Guidelines and Policies for Public Water Suppliers. The ERP is a general guide for the District to use in the case of an emergency.

As part of the new ERP, a new training program for District employees was developed and is currently being reviewed for approval by the Massachusetts Board of Certified Water Operators. This training program will help strengthen the District's ability to quickly identify and act in emergency situations.

The mission of the District is to protect the public health of our customers by being prepared to respond immediately to a variety of events that may result in contamination of the water supply or disruption of supplying water. This Emergency Response Plan and training is a tool to achieve this mission.

Contaminant	Date Tested	Unit	MCL	MCLG	Highest Detected Level	Range Lowest to Highest	Major Sources	Violation
Inorganic Contaminants								
Nitrate	02/24/09	ppm	10	10	3.2	ND - 3.2	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	NO
Sodium[3]	03/03/09	ppm	NA	NA	57	8 - 57	Run off from use of salt on roads	NO
Fluoride	03/09/09	ppm	4	4	0.08	ND - .08	Erosion of natural deposits	NO
Radioactive Contaminants								
Alpha Emitters*	07/23/02	pCi/L	15	0	1.3	.9 - 1.3	Erosion of natural deposits	NO
Gross Alpha Activity*	06/27/07	pCi/L	15	0	0.9	0 - .9	Erosion of natural deposits	NO
Radium 226*	12/11/07	pCi/L	5	0	0.3	0 - .3	Erosion of natural deposits	NO
Radium 228*	12/11/07	pCi/L	5	0	0.7	0 - .7	Erosion of natural deposits	NO
Volatile Organic Contaminants								
HAA5 Haloacetic Acids	8/20/2009	ppb	60	NA	7	ND - 7	By-product of drinking water chlorination	NO
THHM Trihalomethanes	8/20/2009	ppb	80	NA	7	ND - 7	By-product of drinking water chlorination	NO
Unregulated Contaminants								
Contaminant	**Date Tested**	**Unit**	**SMCL**	**ORSG**	**Average Detected Level**	**Range Lowest to Highest**	**Sources**	**Violation**
Chloroform[2]	05/13/09	ppb	NA	NA	3.8	ND - 3.8	By-product of drinking water chlorination	NO
MTBE Methyl Tertiary Butyl Ether	05/13/09	ppb	20 - 40	70	0.86	ND - .86	Fuel additive; leaks and spills from gasoline storage tanks	NO
Radon*	03/19/01	pCi/L	NA	NA	210	180 - 210	See Radon statement	NO
Contaminant	**Date Tested**	**Unit**	**MRDL**	**MRDLG**	**Highest Detected Level**	**Range Lowest to Highest**	**Sources**	**Violation**
Chlorine	Jan - Dec 2009	ppm	4	NA	0.36	ND - .36	Product of drinking water chlorination	NO
Secondary Contaminants								
Contaminant	**Date Tested**	**Unit**	**SMCL**	**SMCLG**	**Highest Detected Level**	**Range Lowest to Highest**	**Major Sources**	**Violation**
Manganese[4]	02/24/09	ppm	NA	0.05	0.31	ND - .31	Naturally present in the environment	NO
Iron[4]	05/06/09	ppm	NA	0.3	1	ND - 1	Naturally present in the environment	NO
Lead & Copper								
Contaminant	**Date Tested**	**90th Percentile**	**# of Sites Exceeded Action Level**	**# of Sites Sampled**	**MCL (Action Level)**	**MCLG**	**Major Sources**	**Violation**
Lead[1*]	8/13/2008	ND	1	30	15	0	Corrosion of household plumbing Erosion of natural deposits	NO
Copper[1*]	8/13/2008	0.15	0	30	1.3	1.3	Corrosion of household plumbing Erosion of natural deposits and leaching of wood preservatives	NO
Microbiological Contaminants								
Contaminant	**Date**	**Highest # positive samples taken in a month**		**Highest % Positive in a Month**	**MCL**	**MCLG**	**Major Sources**	**Violation**
Total Coliform Bacteria	January - December 2009	No positive detections in 2009		0%	5%	0	Naturally present in the environment	NO

Key to Table

AL = Action Level
MCL = Maximum Contaminant Level
MCLG = Maximum Contaminant Level Goal
MFL = Million Fibers per Liter
MRDL = Maximum Residual Disinfectant Level

pCi/l = picocuries per liter (a measure of radioactivity)
ppm = parts per million or milligrams per liter (mg/l)
ppb = parts per billion, or micrograms per liter (µg/l)
ppt = parts per trillion, or nanograms per liter

Water Treatment Techniques

Corrosion Control through pH Adjustment Many drinking water sources in New England are naturally corrosive (i.e. they have a pH of less than 7.0). The water they supply has a tendency to corrode and dissolve the metal piping it flows through. This not only damages pipes but can also add harmful metals, such as lead and copper, to the water. For this reason it is beneficial to add chemicals that make the water neutral or slightly alkaline. This is done by adding any one, or a combination of several, approved chemicals. The Dennis Water District adds potassium hydroxide to its water. This adjusts the water to a non-corrosive pH. Testing throughout the water system has shown that this treatment has been effective at reducing lead and copper concentrations.

Sequestration (Iron & Manganese) Iron and Manganese are often present in groundwater at levels that can discolor the water or cause it to take on unpleasant odors or tastes. Although the water may still be safe to drink, treatment is often desirable. Treatment consists of adding sodium hexametaphosphate to the water. This results in a chemical reaction, known as sequestration, which prevents the iron and manganese from forming nuisance particles. This treatment technique was discontinued during 2009 when our iron and manganese removal plants went on line.

Disinfection The District uses sodium hypochlorite, also known as chlorine, in the distribution system. Initially it was only routinely used during our flushing program in the spring and fall of each year. In 2007, the Board of Water Commissioners approved year-round chlorination of the distribution system. Chlorine is added at a rate of .5 ppm as a preventative measure to eliminate any microorganisms.

All chemicals used by the District are approved for water treatment by one of the following organizations; National Sanitation Foundation International or United Laboratories, both accredited by the American National Standards Institute. Chemicals also meet performance standards established by the American Water Works Association.

Mandatory EPA Health Statement

To ensure that tap water is safe to drink, the Massachusetts Department of Environmental Protection and the Environmental Protection Agency (EPA) prescribe limits on the amount of certain contaminants in water provided by public water systems. The Federal Food and Drug Administration and the Massachusetts Department of Public Health Regulations establish limits for contaminants in bottled water.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791) or by visiting their general website at http://www.epa.gov

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material, and can absorb substances resulting from the presence of animals or human activity. Contaminants that may be present in source water include:

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

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

(C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses.

(D) Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, can also come from gas stations, urban storm water runoff and septic systems.

(E) Radioactive contaminants can be naturally occurring or the result of oil and gas production and mining activities.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, persons with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium are available from the Safe Drinking Water Hotline (800-426-4791).

Please share this information with other people who you know drink water provided by Dennis Water District, especially those who may not have received this notice directly (for example, people living in apartments, nursing homes, or who visit our schools and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail. Your cooperation by sharing this information is appreciated.

What does this all mean?

Our water supply is safe! As you can see in our table, the District experienced no violations during 2009. The District takes more than 1,000 test samples for various contaminants each year as required by EPA and DEP. Some detections are made at low levels yet all were within required limits. It is not possible to include all the contaminants that we test for in the space provided; nor, is it required. A complete list can be obtained on request by contacting the District or by visiting our website.

How Will You Be Notified In An Emergency

In the event of a non-acute violation, the District must submit notices within 14 days for publication in local newspapers explaining the violation. The notices will contain important information for consumers and what actions are being taken by the District to achieve compliance.

In the event of an acute violation or an immediate emergency, the District must issue a public notice for release through electronic media (radio, television, etc.) within 24 hours. The notice must explain the situation, including actions or precautions consumers may need to take. The notice will also describe the actions being taken by the District to resolve the problem. While regulations require a 24-hour public notice, our goal is to release the information as soon as possible.

This report was prepared by David Larkowski, Superintendent of the Dennis Water District. For more information call 508-398-3351.

NOTES:

NOTES: