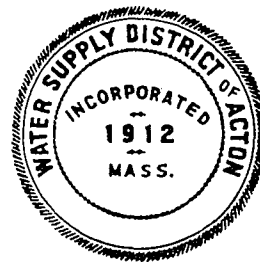


ANNUAL REPORT
OF THE
WATER SUPPLY DISTRICT
OF
ACTON, MASSACHUSETTS



For the Year Ending December Thirty-first

1984

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ORGANIZATION - 1984

Water Commissioners

Leonard A. Phillips	Term expires 1985
William P. Walsh	Term expires 1986
Joseph H. Lauzon	Term expires 1987

Moderator

John Putnam	Term expires 1985
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Clerk

Anita E. Page	Term expires 1985
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Finance Committee

Joyce E. Foley	Term expires 1985
William L. Kingman	Term expires 1986
Stephen C. Stuntz	Term expires 1987

*Commissioners meet on second and fourth Monday of the month
Whitcomb Station, 693 Massachusetts Avenue, Acton
7:30 P.M.*

Appointment by the Water Commissioners

District Manager

John E. MacLeod	Term expires 1986
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Treasurer and Collector

Stephen G. Peterson	Term expires 1985
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Accountant

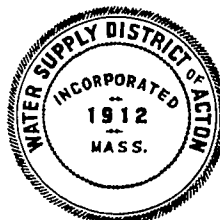
Raymond L. Page	Term expires 1985
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Attorney

Charles E. Orcutt, Jr.	Term expires 1985
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COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.



To the Clerk of the Water Supply District of Acton, GREETINGS:

You are directed to notify the inhabitants of the Town of Acton, qualified to vote in elections and town affairs, to assemble at their precinct:

Precinct 1 - Clubhouse, Nagog Woods
Precinct 2 - Center Fire Station
Precinct 3 - Douglas School - Elm Street
Precinct 4 - Conant School - Taylor Road
Precinct 5 - Fire Station - West Acton
Precinct 6 - Fire Station - South Acton

on MONDAY, APRIL 1, 1985

between 7 o'clock A.M. and 8 o'clock P.M.

Then and there to bring their votes on one ballot for the following officers:

Moderator for one year, one Commissioner for three years, and Clerk for one year.

You are further requested to notify the legal voters of said Town of Acton, as aforesaid, to assemble at the

Acton-Boxborough Regional High School Auditorium
Charter Road at Hayward, West Acton
on WEDNESDAY, MARCH 20, 1985

at 7:30 o'clock P.M.

Then and there to act on the following articles:

ARTICLE 1. To fix the salaries of the elected officers.

ARTICLE 2. To act on the reports of the Commissioners, the Treasurer, and other officers and committees of the District.

ARTICLE 3. To see if the District will vote to authorize the Treasurer, with the approval of the Commissioners, to borrow in anticipation of the revenue for the fiscal year beginning July 1, 1985, in accordance with the provisions of General Laws, Chapter 44, Section 4, and to renew any note or notes as may be given for a period of less than one year, in accordance with the provisions of General Laws, Chapter 44, Section 17, or take any action relative thereto.

ARTICLE 4. To see if the District will vote to instruct the Commissioners to have an audit of the various accounts of the District, or to take any action relative thereto.

ARTICLE 5. To see what sums of money the District will vote to raise and appropriate to defray the usual expenses of the District.

ARTICLE 6. To see if the District will vote to transfer from Surplus Revenue, or to borrow under Chapter 44 of the General Laws, or to raise and appropriate the sum of \$80,000.00 to treat 8 wells with potassium hydroxide in order to raise the PH to prevent stains and bitter taste, or to take any other action relative thereto.

ARTICLE 7. To see if the District will vote to authorize the Commissioners to accept a gift of a certain parcel of land located on the southerly side of Massachusetts Avenue in West Acton owned by the Flannery Family, land parcel 121, Page F-2 of the Town Atlas. The said land acquisition is for water supply purposes and for the development of a future well and water source. The District shall erect a suitable placque acknowledging the gift and survey the land at cost to District, or to take any other action relative thereto.

ARTICLE 8. To see if the District will vote to transfer from Surplus Revenue, or to borrow under Chapter 44 of General Laws, or to raise and appropriate a certain sum of money for a pumping test to determine the feasibility of developing a well or well-field as a public water supply on land owned or to be acquired by the District located off Massachusetts Avenue and Kinsley Road in West Acton, or to take any other action relative thereto.

ARTICLE 9. To see if the District will vote to transfer from Surplus Revenue, or to borrow under Chapter 44 of the General Laws, or to raise and appropriate a certain sum of money for sandblasting and repainting the Great Hill Reservoir in South Acton and to apply for and accept any

Federal or State funds toward the cost of this project, or to take any other action relative thereto.

ARTICLE 10. To see if the District will vote to transfer from Surplus Revenue, or to borrow under Chapter 44 of the General Laws, or to raise and appropriate a certain sum of money for a pumping test to determine the feasibility of developing a well or well-field as a public water supply on land owned by Brewster Conant located on the southerly side of Brook Street and the westerly side of Great Road in Acton Center, or to take any other action relative thereto.

ARTICLE 11. To see if the District will vote to authorize to transfer from Surplus Revenue, the sum of \$8,000.00 for the cleaning and chemical treatment, and redevelopment of the Whitcomb Well in West Acton, or to take any other action relative thereto.

ARTICLE 12. To see if the District will amend the By-Laws by adding a new section twelve which reads as follows:

No unauthorized person shall turn on or tamper with a water main or hydrant or other device used for water supply without first procuring a written permit so to do from the Manager of the Water District. Any person violating said section shall be fined not more than \$200.00 for each offense, which shall inure to the district for such uses as the 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. Every day that such violation continues shall constitute a separate offense. This section shall not curtail the fire department or Water District in the normal course of providing fire protection or water supply, or to take any other action relative thereto.

ARTICLE 13. To see if the District will authorize the Commissioners to enter into short term written agreements for the use of the Water District's gas chromatograph by other governmental bodies and bidders responding to the Water District's requests for proposals (RFP). Said agreements shall provide for the payment of a reasonable fee to the Water District and include such other terms, conditions and limitations as the Commissioners shall deem necessary or proper, or to take any other action relative thereto.

(The District accepted the provisions of Chapter 41, Section 69 of the Massachusetts General Laws at the Special Meeting, August 20, 1984, which provides the Commissioners with exclusive charge and control of the Water Department and Water System.)

ARTICLE 14. To see if the District will vote to authorize the Commissioners to enter into a written agreement with the Police Department,

Town of Acton, for use of a portion of land owned by the District known as the site of the Flagg Hill Reservoir for the construction of a new base radio station and tower; said agreement to contain such terms, conditions and limitations as the Commissioners may deem appropriate, and subject to the pertinent approvals of the Board of Appeals, or to take any other action relative thereto.

ARTICLE 15. To see if the District will vote to authorize the Commissioners to enter into a written lease not to exceed one (1) year with Bay State Explosives Company, Inc., a Massachusetts Corporation having a usual place of business in Acton, Massachusetts, for the purpose of continued use of three magazines for the storage of explosives on land owned by the District located off Powder Mill Road and New High Street in said Acton and subject to the terms and conditions of a permit issued by the Town of Acton, at an annual rental of \$6,000, or any greater or lesser sum, or take any other action relative thereto.

(Submitted at the request of Bay State Explosives Company, Inc. and upon petition of ten or more registered voters of the Town of Acton.)

ARTICLE 16. To see if the District will vote to extend the water main from the existing main on High Street, and install an 8 inch water main for a distance of 700 feet on Adams Street in South Acton, together with hydrants and necessary footings, and to raise and appropriate or transfer from any available source or to borrow under authority of Chapter 44 of the General Laws, as amended, a certain sum of money for said purpose, or to take any other action relative thereto. (Inserted at the request of Joseph Maillett, Sudbury, Massachusetts.)

And you are directed to serve this Warrant by posting copies attested by you in two or more public places in the Water Supply District, fourteen days at least before the time of said meeting, as authorized by Chapter 41, Section 119, of the General Laws.

Hereof fail not and make due returns of this Warrant with your doings thereon to the Water Commissioners on or before the time of holding said meeting.

Given under our hands this 14th day of January, in the year one thousand nine hundred and eighty-five.

LEONARD A. PHILLIPS
WILLIAM P. WALSH
JOSEPH H. LAUZON
Water Commissioners.

A true copy. ATTEST:

Anita E. Page
District Clerk.

REPORT OF THE COMMISSIONERS

During 1984 the Water Supply District of Acton has pursued aggressively many of the issues highlighted in the 1983 Annual Report. Always of paramount importance to the mission of the District, we have expended all possible efforts at maintaining and expanding our water supply in terms of quantity as well as ensuring its extremely high quality. We have taken steps that complement initial measures undertaken during 1983 toward the development of additional water supplies, including the acquisition of the so-called Kennedy Land (pending final action at the time of this report) and Marshall Land in North Acton, a total of approximately 53 and 10.8 acres, respectively; and the contiguous Flannery Land (approximately 6 acres), which is scheduled for discussion during the 1985 Annual Meeting.

To assure the continued delivery of currently available water supply to the District's high standards (1 part per billion or less of any single volatile organic chemical contaminant and 5 PPB or less for total volatile organic chemical contaminants), we have initiated granular activated carbon (GAC) treatment of the Clapp Well in West Acton. In addition, we have designed, built and put on line a State-of-the Art Aeration Facility to pre-treat water from the Assabet Wells prior to GAC Treatment, thereby extending the effective lifetime of the carbon by at least a factor of five and as much as ten. This carbon has been in service one year and shows no sign of depletion. Prior to the the start-up of Aeration, its lifetime was 3 months.

Estimated capacity from exploitation of the North Acton source described above could be in excess of 1.3 million gallons per day, based upon available pumping data. Further progress antecedent to the development of the North Acton well site requires the Town of Acton's continuing effort to resolve the concern of the Department of Environmental Quality Engineering (DEQE) regarding the final disposition of the town's septage disposal facility. This facility is adjacent to the District's potential well site in North Acton.

To prepare for the supply of water to and from North Acton, a total of 5,300 feet of water main has been laid along Route 27 from the intersection of Routes 27 and 2A. This achievement was accomplished in preparation for the development of the North Acton wellfield and the delivery of vital water resources to this privately supplied area of town. This initial step step is a major move toward establishing truly townwide service.

TABLE 1: ACTON WATER DEMAND

Daily Average = 1,500,000 gpd
 Summer Peak = 2,000,000 gpd
 Desired Supply = 3,000,000 gpd

TABLE 2: ACTON WATER SUPPLY CAPACITY

WELL	ACTIVE	INACTIVE	OPERATIONAL CONSTRAINTS
Assabet 1 & 2	1,000,000	--	Aeration & Carbon Treatment
Christofferson	500,000	--	
Whitcomb	450,000	--	Color Treatment Desirable
Clapp	350,000	--	Carbon Treatment
Lawsbrook	--	350,000	Organic Chemical Contamination
Scribner	--	300,000	Organic Chemical Contamination
Conant	325,000	--	
TOTALS	2,625,000	650,000	
GRAND TOTAL		3,275,000 GPD	

TABLE 3: ESTIMATED CAPACITY FOR FUTURE

North Acton — 1,300,000 GPD

Kennedy Land
Sportsman Club
Marshall Land

West Acton — Unknown at this time

Flannery Land
O'Toole Land

Acton Center — Unknown at this Time

Conant Land

South Acton — 1,000,000 GPD

Mass. Broken Stone
(Treatment would be necessary)

EPA and DEQE Impose District Standards on W.R. Grace Company

The Massachusetts Department of Environmental Quality Engineering and the Federal Environmental Protection Agency have demanded that W.R. Grace Company clean up the sinking pond aquifer to the same standards as the District holds to for its drinking water. This major development came about as a rejection of Grace's proposal of a less strict standard by the EPA and the DEQE in October of 1984.

The District has scrupulously adhered to its high standard for quality, which it first applied to water pumped from Assabet Well # in the spring of 1982. This standard is that volatile organic contamination (VOC) will not exceed 1 PPB for any single contaminant or 5 PPB for total organic contamination.

Since February 1984, the aeration component of the Assabet Treatment Facility has provided performance exceeding the District's design specifications and expectations. Indeed, this facility has removed approximately 98% of the volatile organic compounds present in the raw water, greatly exceeding the District's 95% removal design criterion.

Ongoing Water Studies

1. Lawsbrook Aquifer and Supply Wells Contamination Study

The Lawsbrook Well was shut down (February 1984) due to the presence of levels of 1,1 dichloroethylene exceeding District limits.

A groundwater model, with increased scope, has been constructed, based partly on previous models and partly on new data, in an effort to find the source of 1,1 dichloroethylene that has led to the closure of the Lawsbrook Well. This model includes the area northeast of the W.R. Grace Company property, as well as all of the Grace property itself and the sinking pond aquifer. Preliminary findings strongly suggest that the source of the contamination is the W.R. Grace Site. These findings have been communicated to the EPA and DEQE, and further action by the District expected during early 1985.

2. Clapp Well Contamination Study

A hydrogeologic study was performed to determine the source of organic chemical contamination of the Clapp Well. The District is presently awaiting the results of the study.

Advisory Committee

During this year, Joseph Lauzon, formerly Chairman of the Advisory Committee was elected Commissioner; Ronald R. Parenti was then elected Chairman and new appointments made of Roberta Burkey, Paul Bartlett and Gerry Wheaton maintaining the high level of performance that the District has become accustomed to.

The Commissioners wish to thank Basil Bonk for his many noteworthy contributions to the District on the Advisory Committee during his three years of participation.

Status of the Lawsuit Against W. R. Grace

During 1984, the District has been actively preparing its case for the trial. At the same time we are also pursuing the path of negotiations toward settlement out of court, thus maintaining the possibility of pursuing either, as circumstances demand.

Closing Remarks

Because the EPA and DEQE have imposed water purity standards equal to those of the District upon W.R. Grace in their cleanup of the sinking pond aquifer, the District's standard has been documented as being upheld by the highest authorities in the nation and in the state. This development is of the highest significance to our 1 PPB per species/5 PPB total VOC standard.

Furthermore, the discoveries made evident by modeling the Lawsbrook aquifer have enlarged our scope of concern for the Lawsbrook, Christoffer-son and Scribner Wells, and strongly suggest a definable source for the contamination that has been detected in this area.

The Commissioners herewith express appreciation to the members of the Town Boards who cooperated with the District this past year. In addition, we are grateful for the insights and recommendations of the Finance Committee. Lastly, the Commissioners express their appreciation for the steadfast and professional service of the District Manager. For his effective management of day to day activity of the District, and his support of other District personnel, we are particularly grateful.

Respectfully submitted,
Leonard A. Phillips, *Chairman*
William P. Walsh
Joseph H. Lauzon

REPORT OF ENVIRONMENTAL ENGINEER

It is the responsibility of the Acton Water District to operate and maintain the Public Water System in a manner that will assure the health and safety of all consumers. The Drinking Water Regulations of Massachusetts require scheduled monitoring of the water system to determine compliance with standards set forth as maximum contaminant levels. The analysis results of samples collected in accordance with the Drinking Water Regulations indicate that the quality of drinking water is well within State Standards. In fact, for the first time in years the level of sodium is below the State's maximum contaminant level.

In addition, the Water District has adopted a policy with regards to monitoring for volatile organic chemicals. Specifically, all wells are sampled quarterly; the Assabet Wells, Clapp Well and Scribner Wellfield are sampled every two weeks. Results of all samples indicate that water being supplied to the Water Distribution System consistently meets the District's water quality standard of 1 PPB for a single volatile organic chemical and 5 PPB for total volatile organic chemicals.

A comprehensive Water Quality Report is available, upon request, at the Water District Office. The report details results of all water analyses performed during 1984.

LAWRENCE S. DAYIAN
Environmental Engineer

REPORT OF THE FINANCE COMMITTEE

The Committee continues to monitor closely the expenditures from the Special Legal Fund Account, which was established for the W.R. Grace & Company Suit.

Currently there is approximately \$340,000 due from Federal and State Grants for funds expended by the District from short-term borrowing, or surplus cash, during the past several years. As these funds are received, any balance left over after retirement of the debt incurred can be applied against operating expenses.

You will note the inclusion this year of a line-item budget to facilitate comparisons of the 1985-1986 Proposed Budget Expenditures, to previous years. Major increases for the proposed budget are:

1. Bonds and interest reflecting the purchase of the Kennedy and Marshall Lands in North Acton and the extension of the water main along Route 27 towards that land.
2. An increase in the Special Legal Account which was drawn down last year.
3. A new item, chemicals to increase the water treatment of most all the District wells.

Salary increases will be at the same rate as town employees. The proposed budget will require an increase in water rates less any payments of Federal and State Grants.

The Committee would like to thank all employees of the Water District for their cooperation and assistance during the past year.

WILLIAM L. KINGMAN, *Chairman*
JOYCE FOLEY
STEPHEN STUNTZ
Finance Committee

APPROPRIATIONS AND EXPENDITURES FOR 83 - 84 - 6 months of 85

	1983 Appro.	1983 Expend.	1984 Appro.	1984 Expend.	1985 Appro.	1985 7 - 1 thru 12 - 31	1986 Proposed Budget
Group Insurance.....	\$ 13,000.	\$ 11,343.	\$ 15,000.	\$ 14,858.	\$ 18,500.	\$ 10,259.	\$ 19,000.
Bonds & Interest	337,606.	361,229.	302,271.	316,889.	279,311.	167,011.	*362,633.
	c105,522.		c81,899.		c67,280.		
Salaries & Wages.....	196,000.	180,651.	200,000.	196,898.	238,000.	120,460.	256,800.
Equipment Rental	2,000.	3,180.	2,000.	1,910.	2,000.	240.	2,000.
Lights, Power & Tel.....	100,000.	64,098.	85,000.	90,380.	100,000.	67,142.	139,000.
					c30,522.		
⌚ Fuel.....	4,000.	4,444.	4,000.	4,374.	4,500.	3,019.	5,000.
Land Survey	3,000.	-0-	1,000.	70.	-0-	-0-	
			c3,000.		c3,930.		c
Maintenance & Operation	55,000.	58,002.	55,000.	73,920.	50,000.	49,941.	50,000.
MDX. County Retirement	19,500.	19,500.	20,000.	20,000.	24,000.	15,444.	15,000.
Postage	4,000.	3,995.	4,000.	4,000.	4,500.	1,747.	5,000.
Miscellaneous	1,000.	331.	1,000.	969.	1,000.	220.	1,000.
Mass. State Audit.....	3,500.	-0-	-0-	-0-	-0-	-0-	
	c2,000.		c5,550.				c
Legal & Accountant.....	18,000.	18,171.	15,000.	13,527.	12,000.	235.	12,000.
	c3,840.		c3,669.		c5,169.		
Land Appraisal	3,000.	-0-	1,000.	750.	-0-	-0-	
			c3,000.		c3,250.		c
Engineering	15,000.	14,884.	12,000.	10,214.	12,000.	2,045.	10,000.
							c
Insurance	14,500.	14,905.	17,000.	18,279.	19,500.	15,667.	20,500.
Meters.....	6,000.	5,761.	6,000.	5,695.	6,000.	1,219.	6,000.
Auto & Equipment Expense.....	15,000.	13,543.	15,000.	14,900.	16,000.	7,285.	16,000.
Reserve Fund	25,000.	8,046.	25,000.	34,061.	25,000.	-0-	25,000.
			m14,000.				

Office Supplies	2,500.	5,373.	5,000.	4,881.	10,000.	8,189.	7,500.
Laboratory Analysis	5,000.	6,526.	5,000.	3,244.	5,000.	4,325.	5,000.
	c1,526.				c1,750.		
Survey New Water	5,000.	4,737.	-0-	4,364.	-0-	2,584.	5,000.
	c8,526.		c8,789.		c4,425.		
Special Legal	75,000.	30,762.	75,000.	64,860.	25,000.	64,216.	*100,000.
			c44,238.		c54,378.		c
Educational Expense	5,000.	5,002.	5,000.	5,204.	5,000.	2,032.	5,000.
Permanent Paving	5,000.	1,226.	3,000.	4,295.	-0-	228.	3,000.
			c3,774.		c2,479.		
Water Words Notice					2,000.	1,310.	2,500.
Advisory Committee					1,000.	502.	1,000.
Treatment Plant - Special Analysis .					5,000.	3,030.	5,000.
Chemicals							*120,000.
TOTAL BUDGET	\$ 932,606.	\$ 835,609.	\$ 873,271.	\$ 908,541.	\$ 865,311.	\$ 550,550.	\$ 1,198,933.

13

c - Previous yrs. monies not spent. Carried over.

* - Budget increases.

m - Special Meeting increase.

ESTIMATED RECEIPTS 1986

Hydrants	\$ 54,000.00
Water Rates	1,105,933.00
Sprinklers	9,000.00
Repairs & New Installations	30,000.00
TOTAL RECEIPTS	\$ 1,198,933.00

Leonard A. Phillips
 William P. Walsh
 Joseph H. Lauzon
Water Commissioners

WATER SUPPLY DISTRICT
OF
ACTON, MASSACHUSETTS

AMORTIZATION SCHEDULE - BONDS AND INTEREST

	Original Amount	Balance 7/1/85	1985-1986 Principal Interest	1986-1987 Principal Interest	1987-1988 Principal Interest	1988-1989 Principal Interest	1989-1990 Principal Interest	1990-1991 Principal Interest	1991-1992 Principal Interest	1992-1993 Principal Interest	1993-1994 Principal Interest
Water Mains	196,000.	6,000.	\$ 6,000.00 183.00								
Nagog Hill Reservoir	540,000.	240,000.	30,000.00 \$ 12,825.00	30,000.00 \$ 11,115.00	30,000.00 \$ 9,405.00	30,000.00 \$ 7,695.00	30,000.00 \$ 5,985.00	30,000.00 \$ 4,275.00	30,000.00 \$ 2,565.00	30,000.00 \$ 855.00	
Water Bonds	385,000.	135,000.	25,000.00 6,982.50	25,000.00 5,557.50	25,000.00 4,132.50	25,000.00 2,850.00	20,000.00 1,710.00	20,000.00 570.00			
Water Bonds	220,000.	100,000.	20,000.00 4,365.00	20,000.00 3,395.00	20,000.00 2,425.00	10,000.00 1,697.50	10,000.00 1,212.50	10,000.00 727.50	10,000.00 242.50		
Building	130,000.	70,000.	10,000.00 3,152.50	10,000.00 2,667.50	10,000.00 2,182.50	10,000.00 1,697.50	10,000.00 1,212.50	10,000.00 727.50	10,000.00 242.50		
Water Bonds	910,000.	670,000.	80,000.00 64,125.00	80,000.00 56,525.00	80,000.00 48,925.00	80,000.00 41,325.00	80,000.00 33,725.00	80,000.00 26,125.00	80,000.00 18,525.00	60,000.00 10,725.00	50,000.00 4,875.00
Water Bonds (new issue)	596,250.		* 49,687.00 50,313.00								
TOTALS	\$ 2,381,000.	\$ 1,817,250.	\$ 362,633.00	\$ 244,260.00	\$ 232,070.00	\$ 205,265.00	\$ 193,845.00	\$ 182,425.00	\$ 151,575.00	\$ 101,580.00	\$ 54,875.00

* Will depend on interest rates at time of issue.

REPORT OF THE DISTRICT MANAGER

The following report covers the activities of the District for 1984.

New House Installations	61
Old Service Lines Replaced or Renewed	10
Old Meters Replaced With New Ones	30
Hydrants Damaged and Repaired	8
Water Main Breaks and Service Lines	20
Old Fire Hydrants Changed to New Ones	12
Total Gallons Pumped in 1984	616,762,595

The Water District's new treatment facility, located at the Assabet Well site has been in operation for one year. The facility, which consists of aeration and carbon adsorption, continues to operate effectively and efficiently. The aeration tower provides approximately 98% removal of volatile organic chemicals, while the carbon serves to ensure that the quality of water being supplied to the water distribution system consistently meets the District's strict water quality standards of 1 PPB for any single volatile organic chemical and 5 PPB for total organic chemicals.

The Clapp Well, which had been shut down since August of 1982 due to organic chemical contamination, has been equipped with a carbon treatment system which was funded by the Massachusetts Department of Environmental Quality Engineering (DEQE). The well has been operating since September and is presently supplying approximately 350,000 gallons of water per day that meets the District's water quality standards. In addition, the District is presently awaiting the results of a hydrogeological study that was performed to determine the source of contamination to the Clapp Well. This study was also funded by the DEQE.

In February of 1984 the District shut down the Lawsbrook Well because it exceeded the District's water quality standards. The well is located in South Acton off Lawsbrook Road near the Concord Town Line. Water from the well is being pumped to waste so that it may serve as an interceptor to keep the contamination from reaching the Scribner Wellfield and the Christofferson Well. A study of the area is underway to determine the source of contamination.

This past year the District began Corrosion Control Treatment of the Conant Well which is located off Main Street in Acton Center. Water from the well is being treated with potassium hydroxide in order to reduce carbon dioxide and raise the PH of the water so that it will be less corrosive to pipes, prevent blue-green staining and bitter taste. This condition, which is very common to New England does not cause any health problems, but does present an asthetic nuisance. This treatment has been successful at the Conant Well and we are looking forward to treating all the District wells with potassium hydroxide in the near future.

During certain times of the year the Whitcomb Well, which is located off Massachusetts Avenue in West Acton, experiences a high color problem. The excessive color is due to the wells location in a peat bog area. A study is presently underway to address the issue. Problems caused by the high color are strictly asthetic and cause no adverse health effects.

The Water District has completed phase one of a new water main installation on Main Street (Route 27). Future plans include continuing the water main to the Carlisle Town Line. When this is completed the District will be able to develop three new well sites in North Acton that will contribute an additional 1.3 million gallons of water per day to the system. However, it must be noted that DEQE had stated that the final approval for the three well sites for use as Public Water Supply will not be granted until the Town addresses the contamination issues surrounding continuing operation, closure and cleanup of the Town's Septage Disposal area located off Quarry Road.

The District will continue to explore for new water supplies. This year we are hoping to perform pumping tests on land in West Acton and Acton Center. These potential sites, as well as existing sites show evidence of contamination problems that must be dealt with. At this rate it is very possible that in the future we will have Treatment Plants at all of our wells.

The District will provide a tour of the Assabet Treatment Facility to any citizen of Acton. Arrangements can be made by contacting the District Manager or the District Environmental Engineer.

Several District employees have completed and will continue to attend courses and seminars on water and pollution issues.

I am also working with several local communities concerning our water supply problems and determining what measures we all can take to make our environment safe for everyone. As a result we have formed a new professional organization called The Middlesex/Worcester County Water Association.

The Water District has received financial grants from the Commonwealth of Massachusetts for fluoride and the Clapp Well contamination study. Additional grant applications have been submitted and approved for the Assabet and Clapp Well Treatment Facilities. The District will continue to apply for grant money as it becomes available.

I would like to take this opportunity to express my sincere thanks to the Board of Water Commissioners, Finance Committee, Land-Water Management Advisory Committee, Town Manager, Board of Selectmen, Board of Health, Town of Acton Ground Water Protection Committee, Acton Fire Department, Acton Police Department, School Department and all the Citizens of Acton. In addition, I would like to thank the DEQE, EPA, Representatives John Loring and Chester Atkins, and neighboring towns who have helped us with our problems. I also look forward to having better communications with all Town, State and Federal Agencies with whom the District Associates.

JOHN E. MACLEOD
District Manager

REPORT OF THE COLLECTOR

JULY 1, 1983 TO JUNE 30, 1984

Outstanding July 1, 1983	\$ 70,167.72	
Charges	926,419.55	
Refunds - Credits	<u>513.46</u>	
Total		\$997,100.73

Payments	\$ 952,125.52	
Abatements	3,957.67	
Outstanding June 30, 1984	<u>41,017.44</u>	
Total		\$997,100.73

JUNE 30, 1984 TO DEC. 31, 1984

Outstanding June 30, 1984	\$ 41,017.44	
Charges	524,165.45	
Credits - Refunds	<u>3,472.10</u>	
Total		\$568,655.45

Payments	\$ 515,921.04	
Abatements	5,020.67	
Outstanding Dec. 31, 1984	<u>47,713.74</u>	
Total		\$568,655.45

Stephen G. Peterson
Collector - Treasurer

REPORT OF THE DISTRICT ACCOUNTANT

This portion of the report covers expenditures for the fiscal year 1984
(July 1, 1983 -June 30, 1984)

Account	Appropriations 7-1-83	Balance 6-30-84
Reserve Fund	\$ 25,000.00	\$ 5,081.00
Bonds & Interest	302,271.00	67,280.46
Salaries & Wages	200,000.00	3,102.39
Insurance	17,000.00	-----
Lights, Power & Tel.	85,000.00	30,521.97
Equipment Rental	2,000.00	90.00
Auto & Equipment Expense	15,000.00	100.00
Fuel	4,000.00	-----
**	374.03	-----
Maintenance & Operation	55,000.00	-----
**	18,920.05	-----
Miscellaneous	1,000.00	31.78
Meters	6,000.00	-----
**	305.42	-----
Legal Expense	15,000.00	5,168.78
Special Legal Expense	75,000.00	54,377.65
Land Survey	1,000.00	3,930.00
Land Appraisal	1,000.00	3,250.00
Engineering Expense	12,000.00	1,786.25
Mass. State Audit	5,500.00	5,500.00
Group Insurance	15,000.00	(147.47)
MDX County Retirement	20,000.00	-----
Postage	4,000.00	-----
Office Supplies	5,000.00	118.96
Educational Expense	5,000.00	-----
**	204.30	-----
Permanent Paving	3,000.00	2,479.00
Laboratory Analysis	5,000.00	1,756.34
Sur. for New Water	8,788.51	4,424.87

** From Reserve Fund

SPECIAL APPROPRIATIONS

Account	Balance 6-30-84
Telemeter System	\$ 4,865.00
Kennedy Land & Sportsman Club	212,150.00
Master Plan Update	5,000.00
Hydro Study	373.34
Building at Assabet	5,896.35
Treatment at Conant Well	-----
Laboratory Equipment	22.07
Computer & Printer	.05
System Rehabilitation	18,640.93
Land-Water Mang. Adv. Comm.	308.89
Aeration Treatment - Assabet	1,354.15
Carbon - Assabet	-----

The appropriations voted by the District March 21, 1984 cover the period July 1, 1984 to June 30, 1985. Below are listed expenditures for the first six months of this period.

Account	Appropriations for 1984-1985	Balance 12-31-84
Reserve Fund	\$ 25,000.00	\$ 25,000.00
Bonds & Interest	346,591.46	179,780.57
Salaries & Wages	238,000.00	117,540.40
Insurance	19,500.00	3,832.90
Lights, Power & Tel.	130,521.97	63,380.42
Equipment Rental	2,000.00	1,760.00
Auto & Equipment Expense	160,000.00	8,714.93
Fuel	4,500.00	1,480.36
Maintenance & Operation	53,211.79	3,270.68
Miscellaneous	10,000.00	780.00
Meters	6,000.00	4,781.16
Legal & Acct. Expense	17,168.78	16,938.78
Special Legal Expense	79,377.65	15,161.41
Land Survey	3,930.00	3,930.00
Land Appraisal	3,250.00	3,250.00
Engineering Expense	12,000.00	9,954.25
Mass. State Audit	5,500.00	5,500.00
Group Insurance	18,500.00	8,242.23
MDX County Retirement	24,000.00	8,556.00
Postage	4,500.00	2,634.50
Office Supplies	10,000.00	1,770.87
Educational Expense	5,000.00	2,911.95
Permanent Paving	2,479.00	1,341.66
Laboratory Analysis	6,756.34	2,431.28
Sur. for New Water	4,424.87	1,840.62

SPECIAL APPROPRIATIONS

Account	Balance 12-31-84
Land-Water Mang. Adv. Comm.	\$ -----
Telemeter System	9,654.38
Aeration Treatment - Assabet	-----
System Rehabilitation Acct.	18,290.93
Kennedy Land & Sportsman Club	212,150.00
Master Plan Update	5,000.00
Hydro Study	373.34
Lawsbrook Main	200.00
Assabet Building	344.20
Conant Well Treatment	7,000.95
Laboratory Equipment	22.07
Water Words Notice	1,397.16
Clapp Well Treatment Plant - Aquifer Clean Up	30,387.65
Extension of Main - Minuteman Road	-----
Compressor	161.50
Water Main - Route 27	20,304.58
Clapp Well Study	-----
Clapp Well Temporary Treatment Plant	999.11
Special Study	1,006.00
Marshall Property Acq.	68,250.00
Scribner Well Study	5,000.00
Whitcomb Well Study	5,293.00
Flagg Hill Reservoir Repair	975.00
Car	1,680.00
Town of Acton & District Study - Septage Laggons Disposal	5000.00

Raymond Page
District Accountant

REPORT OF THE TREASURER

Checking Accounts

July 1, 1983 to June 30, 1984

BayBank Middlesex, Balance June 30, 1983	\$	(-6,642.80)
Transferred from Savings Account		334,500.00
Deposits		<u>952,156.85</u>
Total	\$	1,280,014.05
Disbursements	\$	949,492.37
Transfers		<u>335,000.00</u>
Total	\$	1,284,492.37
Balance June 30, 1984	\$	(-4,478.32)

June 30, 1984 to Dec. 31, 1984

BayBank Middlesex, Balance June 30, 1984	\$	(4,478.32)
Transferred from Savings Account		230,000.00
Deposits		<u>515,921.04</u>
Total	\$	741,442.72
Disbursements	\$	720,446.33
Transfers		<u>50,000.00</u>
Total	\$	770,446.33
Balance Dec. 31, 1984	\$	(-29,003.61)

June 30, 1983 to June 30, 1984

Shawmut Bank, Balance June 30, 1983	\$	1,338.51
Transfer from Savings		<u>173,000.00</u>
Total	\$	174,338.51
Disbursements	\$	174,157.95
Balance June 30, 1984	\$	180.56

June 30, 1984 to Dec. 31, 1984

Shawmut Bank, Balance June 30, 1984	\$	180.56
Transfer from Savings	\$	<u>258,000.00</u>
Total	\$	258,180.56
Disbursements	\$	257,877.00
Balance December 31, 1984	\$	303.56

BANK INVESTED FUNDS

BayBank Middlesex, Balance June 30, 1983	\$	35.86
Interest		1.97
Balance June 30, 1984	\$	37.83
Shawmut Bank, Balance June 30, 1983	\$	88.13
Interest		4.73
Balance June 30, 1984	\$	92.86
MMDT, Balance June 30, 1983	\$	818,719.11
Interest		70,499.02
Deposits		335,000.00
Withdrawals		507,500.00
Balance June 30, 1984	\$	716,718.13
Shawmut Bank #1		
Interest	\$	752.72
Deposits		260,000.00
Balance June 30, 1984	\$	260,752.72
June 30, 1983 to June 30, 1984		
Interest		71,258.44

June 30, 1984 to December 31, 1984

BayBank Middlesex, Balance June 30, 1984	\$	37.83
Interest		1.03
Balance December 31, 1984	\$	38.86
Shawmut Bank, Balance June 30, 1984	\$	92.86
Interest		2.48
Balance December 31, 1984	\$	95.34
MMDT, Balance June 30, 1984	\$	716,718.13
Interest		38,029.90
Deposits		145,000.00
Withdrawals		252,000.00
Balance December 31, 1984	\$	647,748.03
Shawmut Bank #1, Balance June 30, 1984	\$	260,752.72
Interest		5,206.00
Withdrawals		236,000.00
Balance December 31, 1984	\$	29,958.72
June 30, 1984 to December 31, 1984		
Interest	\$	43,239.41

WATER MEETING

Abstract of the proceedings of the Annual Meeting of the Water Supply District of Acton, held in the Acton-Boxborough Regional High School Auditorium, Charter Road, West Acton.

WEDNESDAY, MARCH 21, 1984, at 7:30 PM

ARTICLE 1. VOTED: To fix the salaries of the District Officers as follows:

Chairman of the Commissioners	\$900.00 per year
Two (2) Commissioners	\$700.00 per year
Moderator	\$25.00 per meeting
Clerk	\$600.00 per year

(Unanimous)

ARTICLE 2. VOTED: To accept the reports of the District Officers as presented in the 1983 annual report.

(Unanimous)

ARTICLE 3. VOTED: That the District authorize the Treasurer, with the approval of the Commissioners, to borrow in anticipation of the revenue for the fiscal year beginning July 1, 1984, in accordance with the provisions of General Laws, Chapter 44, Section 4, and to renew any note or notes as may be given for a period of less than one year, in accordance with the provisions of General Laws, Chapter 44, Section 17.

(Unanimous)

ARTICLE 4. VOTED: To instruct the Commissioners to have an audit of the various accounts of the District under the direction of the Commonwealth of Massachusetts.

(Unanimous)

ARTICLE 5. VOTED: To appropriate from estimated receipts of the District the sum of \$865,311.00 for the maintenance and operation of the District, and specific appropriations as follows:

Estimated Budget Expenditures for 1984 - 1985

Group Insurance	\$ 18,500.00
Bonds and Interest	279,311.00
Salaries & Wages	238,000.00
Equipment Rental	2,000.00
Lights, Power & Tel.	100,000.00
Fuel	4,500.00
Land Survey	Carry Over
Maintenance & Operation	50,000.00
MDX. County Retirement	24,000.00
Postage	4,500.00
Miscellaneous	1,000.00
Mass. State Audit	Carry Over
Legal & Accounting	12,000.00
Land Appraisal	Carry Over
Engineering Expense	12,000.00
Insurance	19,500.00
Meters	6,000.00

Auto & Equipment Expense	16,000.00
Reserve Fund	25,000.00
Office Expense	10,000.00
Laboratory Analysis	5,000.00
Survey New Water	Carry Over
Special Legal Expense	25,000.00
Educational Expense	5,000.00
Permanent Paving	Carry Over
Water Works Notice	2,000.00
Advisory Committee	1,000.00
Treatment Plant - Special Analysis	5,000.00
Total Budget	<u>\$865,311.00</u>

	Estimated Receipts	
Hydrants		52,910.00
Water Rates		783,401.00
Sprinklers		9,000.00
Repairs & New Installations		20,000.00
Total Receipts		<u>\$865,311.00</u>

(Unanimous)

ARTICLE 6. VOTED: That the District authorize the Commissioners to enter into a written lease for one (1) year with Bay State Explosives Company, Inc., a Massachusetts corporation having a usual place of business in Acton, Massachusetts, for the purpose of continued use of three magazines for the storage of explosives on land owned by the District located off Powder Mill Road and New High Street in said Acton and subject to the terms and conditions of a permit issued by the Town of Acton, and an agreement prepared by the District, at an annual rental in the sum of \$2,400.00.

(Unanimous)

ARTICLE 7. VOTED: That the District vote to authorize the Commissioners to transfer from surplus revenue the sum of \$13,000.00 for the purchase of a new air compressor and to authorize the Commissioners to trade or sell the 1969 air compressor.

(Unanimous)

ARTICLE 8. VOTED: That the District rescind the vote of Article #1 of the Special Meeting held on November 21, 1983, which authorized a transfer of \$7,000.00 from Surplus Revenue for extending water main 300' on Minuteman Road; and to authorize the Commissioners to transfer the \$7,000.00 unexpended balance in the Surplus Revenue Account.

(Unanimous)

ARTICLE 9. VOTED: That the District extend the 6 inch water main on Minuteman Road, together with hydrants and necessary fittings, a distance of approximately 300 feet from the end of the existing main, and to raise and appropriate the sum of \$8,000.00 for said purpose and to authorize the Treasurer, with the approval of the Commissioners, to borrow said sum, if necessary under Chapter 44 of the General Laws, as amended.

David Walker, Inc. of Acton, Massachusetts, shall deposit the total sum of

\$8,000.00 with the Treasurer of the District prior to the commencement of any work under this Article; said deposit to be used to purchase materials, engage a contractor to install pipe and necessary fittings, and to pay for the cost of engineering, police inspections and all other expenses incurred to complete the work under this Article.

(Unanimous)

ARTICLE 11. VOTED: That the District vote to authorize the Commissioners to transfer from surplus revenue the sum of \$19,500.00 to undertake repairs to the Flagg Hill Reservoir and to apply for and accept any Federal or State funds toward the cost of this project.

(Unanimous)

VOTED: To adjourn Annual Meeting and proceed to Special Meeting.

Abstract of the proceedings of the Special Meeting within the Annual Meeting of the Water Supply District of Acton, held in the Acton-Boxborough Regional High School Auditorium, Charter Road, West Acton

Wednesday, March 21, 1984, at 8:30 P.M.

ARTICLE 1. VOTED: That the District authorize the Commissioners to build a temporary treatment plant at the Clapp Well Site on Massachusetts Avenue, near the Acton-Boxborough town-line with the resultant treated water pumped into the water system if the quality meets the criteria established by the Commissioners; and to authorize the Commissioners to apply for, accept, receive and expend funding available under the provisions of General Laws, Chapter 44, Section 53, the sum of \$95,000.00 or such lesser amount as may be determined by review and audit of eligible costs; and to authorize the Treasurer, with the approval of the Commissioners, to borrow the sum of \$95,000.00 for the project described herein.

(The funding for this project is authorized under the provisions of Chapter 286 of the Acts of 1982 and administration and disbursement of the grant funds is in accordance with the standards and guidelines established by the Department of Environmental Quality Engineering.)

(Unanimous)

VOTED: To adjourned and return to Annual Meeting - 8:35 P.M.

ANNUAL MEETING

VOTED: That the Commissioners purchase or take by eminent domain, the fee in the land owned now or formerly by Mary S. Marshall located on the easterly side of Main Street, Acton, Middlesex County, Massachusetts, and being shown on a plan prepared for the Water Supply District of Acton, by Fleming, Bienvenu & Associates, Land Surveyors, North Billerica, Massachusetts, dated January 1981, containing about 10.8 acres, more or less, and being a part of the land shown on Owner's Land Court Certificate 101462, recorded in Land Registration Office, Middlesex South District Registry of Deeds, Book 637, Page 112. Said land acquisition is for water supply purposes and for the development of well field and water source; and that \$68,250.00 is appropriated for this land acquisition, and that to raise the appropriation the Treasurer, with the approval of the Commissioners, is authorized to borrow \$68,250.00 under G.L., Chapter 44, Section 8, as amended.

Unanimous)

ARTICLE 12. VOTED: That the District install a 16 inch water main extension on Main Street, North Acton from the existing water main at the intersection of

Route 2A and 27 (Main Street) a distance of about 6,000 feet, more or less, together with hydrants and necessary fittings; and to raise and appropriate the sum of \$260,000.00 for said purpose, and to authorize the Treasurer, with the approval of the Commissioners, to borrow said sum, under General Laws, Chapter 44, as amended; and to apply for and accept any Federal or State funds toward the cost of this water main extension and upgrading of the water system.

(Yea 18 - Nae 3 Passed)

ARTICLE 13. VOTED: That the District vote to authorize the Commissioners to transfer from surplus revenue the sum of \$5,000.00 to undertake repairs and improvements to upgrade the District's telemetering equipment and structures.

(Unanimous)

ARTICLE 14. VOTED: That the District vote to authorize the Commissioners to transfer from surplus revenue the sum of \$4,000.00 to conduct a feasibility study to ascertain the most effective method of correcting the corrosiveness, aesthetics and water quality of various existing wells of the District.

(Unanimous)

ARTICLE 15. VOTED: That the District vote to authorize the Commissioners to transfer from surplus revenue the sum of \$5,000.00 to conduct a feasibility study to determine the most appropriate method to artificially recharge the Scribner Wellfield located in South Acton.

(Unanimous)

ARTICLE 16. VOTED: That the District vote to authorize the Commissioners to transfer from surplus revenue the sum of \$6,000.00 to conduct a feasibility study to determine the most effective method of treating the Whitcomb Well in West Acton for color.

(Unanimous)

ARTICLE 17. VOTED: Defeated.

Adjourned: 9:43 PM

A true copy:

Attest:

Anita E. Page
Clerk

March 21, 1984

WATER MEETING

Abstract of the proceedings of the annual election of officers of the Water Supply District of Acton, held on

MONDAY, APRIL 2, 1984

at the six precincts of the Town of Acton (Polls open from 7:00 A.M. to 8:00 P.M.)

Total number of ballots cast: 925

The following were elected:

Commissioner for 3 years: Joseph H. Lauzon 491

Moderator for 1 year: John Putnam 759

Clerk for 1 year: Anita E. Page 758

A true copy:

Attest:

26 Anita E. Page
District Clerk

WATER MEETING

Abstract of the proceedings of the Special Meeting of the Water Supply District of Acton, held in the Acton-Boxborough Regional High School Auditorium, Charter Road, West Acton.

MONDAY, AUGUST 20, 1984, at 7:30 PM

ARTICLE 1. VOTED: That the District authorize the Commissioners to transfer from surplus revenue the sum of \$11,500.00 for the purchase of a new, appropriately marked, vehicle.

(Unanimous)

ARTICLE 2. VOTED: That the District authorize the Commissioners to transfer from surplus revenue the sum of \$10,000.00 to treat the Conant Well with potassium hydroxide to raise the pH.

(Unanimous)

ARTICLE 3. VOTED: That the District authorize the Commissioners to build a temporary treatment plant at the Clapp Well site located off of Massachusetts Avenue, West Acton and to undertake aquifer cleanup and to continue the hydrogeological study under pumping conditions; and to transfer from surplus revenue the sum of \$45,000.00 for said purposes and to apply for, accept and expend any state grants available under Chapter 44, Section 53.

(Unanimous)

ARTICLE 4. VOTED: That the District authorize the Commissioners to undertake in co-operation with the Board of Health, Town of Acton, and with the contribution of matching funds from the Town of Acton, a testing program of the septage being discharged into and out of the lagoons of said disposal facility, for the purpose of determining the quality of the effluent being discharged into the groundwater in the area adjacent to land being acquired by the District in North Acton; and to transfer from surplus revenue the sum of \$5,000.00 for the cost for this project.

(Unanimous)

ARTICLE 5. VOTED: That the District authorize the Commissioners to accept a gift of a certain parcel of land located on the Southerly side of Massachusetts Avenue and the Easterly side of Kinsley Road in West Acton owned by Richard J. O'Toole devisee under the will of Annie R. Kinsley, Middlesex Probate 548852 and being shown on a plan entitled, "Plan of Land in Acton, Mass., surveyed for Richard O'Toole, dated May, 1984." Said land acquisition is for water supply purposes and for the development of a future well field and water source.

(Unanimous)

ARTICLE 6. VOTED: That the District authorize the Commissioners to install off Kinsley Road, West Acton an 8 inch water main together with hydrants and necessary fittings, a distance of approximately 700 feet on private property owned by Richard J. O'Toole devisee under the will of Annie F. Kinsley, Middlesex Probate 548852 and being shown on a plan entitled, "Plan of Land in Acton, Mass., surveyed for Richard O'Toole, dated May 1984." Said installation and materials to be provided at cost to the District.

(Unanimous)

ARTICLE 7. VOTED: That the District accept the provisions of Massachusetts General Laws Chapter 41, Section 69B, as amended by Chapter 583 of the Acts of 1983, relating to the authority of officers in charge of water works. Said section 69B set forth as follows:

The water commissioners, or the selectmen authorized to act as such, in a town establishing a water supply or water distributing system under authority of section thirty-nine A of chapter forty shall have exclusive charge and control of the water department and water system subject to all lawful by-laws and to such instructions, rules and regulations as the town may from time to time impose by its vote. They may establish fountains and hydrants, may relocate or discontinue the same, may regulate the use of the water and fix and collect just and equitable prices and rates for the thereof, and shall prescribe the time and manner of payment of such prices and rates. The income of the water works shall be appropriated to defray all operating expenses, interest charges and payments on the principal as they accrue upon any bonds or notes issued for the purpose of a municipal water supply. If in any fiscal year there should be a net surplus remaining after providing for the aforesaid charges for that fiscal year, such surplus, or so much thereof as may be necessary to reimburse the town for moneys theretofore paid on account of its water department shall be paid into the town treasury. If in any fiscal year there should be a net surplus remaining after providing for the aforesaid charges and for the payment of any such reimbursement in full, such surplus may be appropriated for such new construction, extraordinary maintenance, of repairs, as the water commissioners, or selectmen authorized to act as such, with the approval of the town, may determine upon; and in case a net surplus should remain after payment for such new construction, extraordinary maintenance, or repairs, the water rates shall be reduced proportionately. Said commissioners, or the selectmen authorized to act as such, shall annually, and as often as the town may require, render a report upon the condition of the works under their charge, and an account of their doings, including an account of the receipts and expenditures.

The provisions of this section relative to the powers and duties of the water commissioners, or the selectmen acting as such, shall also apply to the commission, board or person having charge and control of the water department or water system of any city, town, or district established under special law, notwithstanding any contrary provision therein, upon the acceptance of this section by such city, town, or district.

(Yea 21 - Nae 18)

ARTICLE 8. VOTED: To take no action.

(Unanimous)

Adjourned: 9:25 PM

A true copy:

Attest:

Anita E. Page
Clerk

August 20, 1984

WATER RATES

Water District rates and charges effective as of April, 1980 are as follows:

If a meter gets out of order and fails to register, the consumer will be charged at the average daily consumption as shown by the meter when in order.

13. The Water Commissioners reserve the right to shut off water for the purpose of making alterations or repairs; and they may shut off the water from any taker for disregard of the Rules and Regulations and for non-payment of water rates when due. When water has been shut off because of disregard of rules or non-payment of rates, it will be let on again when the Commissioners are satisfied that there will be no further cause for complaint and the payment of Five Dollars. The Commissioners reserve the right to restrict the use of water if necessary.

18. The water may be turned off without notice when bills for water remain unpaid for fifteen (15) days after they become due. Owners of premises will be held responsible for the water rate of their tenants.

Unpaid water bills are now a lien on real estate and collection may be made by the sale of the property, Mass. Legislature, Acts 1923, Chapter 391.

Effective April 1, 1980 water users will be billed as follows: Minimum price at which water will be furnished, including the use of the meter, will be \$12.00 quarterly. This will allow the use of 1000 cubic feet each 6 months, with no refund or abatement for amounts of water less than 1000 cubic feet used.

On Jan. 1 and July 1 a minimum charge of \$12.00 will be made to each user. Excess water for each 6 months period will be billed in October 1st and April 1st as follows:

All over 1000 cubic feet @ \$1.20 per 100 cubic feet.

Minimum charge shall apply to each family or living unit. Minimum charge shall apply to all non-residential users in accordance with applicable sections of Rules, Regulations and Rates. Larger quantities of water beyond the minimum shall be charged as set forth above.

New owners having had possession of property less than 30 days and using less than 1,000 cubic ft. of water will be billed at the rate of \$1.20 per 100 cubic ft.

There will be a minimum closing charge of \$5.00 for final water meter reading.

Hydrant Rental	\$ 65.00 each per year
Sprinkler System	125.00 each per year

Demand charge for new service installations are as follows:
These do not include materials or labor.

¾" line	\$ 500.00
1" line	630.00
1½" line	1,140.00
1½" line	1,1860.00
2" line	3,680.00
Over 2" line	5,000.00
Multi-dwelling (per apt. or each living unit)	300.00

EFFECTIVE - AUGUST 22, 1983
SPRINKLER DEMAND CHARGES

Buildings up to 20,000 square feet = \$ 500.00

Buildings between 20,000 square feet
and 40,000 square feet = \$1,000.00

Buildings between 40,000 square feet
and 60,000 square feet = \$1,500.00

Buildings between 60,000 square feet
and 80,000 square feet = \$2,000.00

Buildings over 80,000 square feet = \$2,500.00

**BYLAWS TO REGULATE THE NOMINATION AND
ELECTION OF OFFICERS OF THE DISTRICT**

- I The purpose of the Bylaws hereinafter set forth are to regulate the nomination and election of officers for the District so that the voters of the District may have knowledge of the candidates prior to an election.
- II All elections to any office in the District shall be by means of a printed ballot. This ballot shall be caused to be printed by the Commissioners acting as election officers from information furnished to them by the Clerk of the District as provided hereinafter.
- III No person's name shall be printed on the ballot unless he or someone on his behalf has submitted nomination papers signed by fifty registered voters of the District, setting forth the office for which he is a candidate and containing a statement signed by the candidate that he will accept the office, if elected. Nomination papers of a candidate for office of the District shall be filed with the Clerk of the District in accordance with Chapter 53, Section 10 of the General Laws. Submission to the Registrar of Voters shall be in accordance with Chapter 41, Section 115 of the General Laws.
- IV Nothing herein shall be construed as preventing a vote by stickers or writing in the name of a candidate, all as provided in the General Laws, except that no such sticker or write-in candidate shall be deemed to be elected unless he has received valid votes equivalent to 1% of the total of the number of registered voters in the District, as hereinafter determined.
- V The Commissioners, acting as election officers, shall prepare as of twenty (20) days prior to the annual Election, a list of eligible voters from the official voting list of the Town of Acton as of that time. This list shall remain closed until after the annual meeting of the District. The list shall then be reviewed and revised for all subsequent special meetings, up to the day of the special meeting. These lists shall then be used to determine the right of any person to vote at any election or any meeting of the District.
- VI All candidates elected to offices in the District shall be sworn to the performance of their duties by the Clerk of the District, except in the case of the Clerk, who shall be sworn by any of the Commissioners. The Clerk shall make a record of the facts in the minutes of the meeting.
- VII Elections and Nominations of district officers shall be conducted in accordance with chapters fifty to fifty-six, inclusive, of the General Laws so far as applicable, except as otherwise provided in sections one hundred and fourteen to one hundred and seventeen of Chapter 41 of the General Laws, inclusive, and except as otherwise provided by the district bylaw.

BYLAWS
(as adopted and amended to February, 1973)

- I The annual meeting of the Water Supply District shall be held on the third Wednesday of March of each year for the transaction of the necessary business connected with the District, and election of officers shall be held on the first Monday of April of each year. The time and place of holding such election and vote shall be stated in the warrant for the annual meeting and such election and vote shall be deemed part of the Annual District Meeting.
- II All meetings may be called by a majority of the Board of Water Commissioners, directed to the Clerk, or as specified in Chapter 326 of the Acts of 1912, Section 8.
- III All warrants shall be posted at least fourteen (14) days before the time of the meeting.
- IV The Clerk shall preside at each meeting until a Moderator is chosen.
- V At each annual meeting there shall be elected by ballot, one Commissioner for a term of three years, a Clerk and a Moderator who shall serve for one year.
- VI If a vacancy should occur for any cause in the office of Clerk, Treasurer, or any other officer of the District except the Board of Water Commissioners, it may be filled for any such unexpired term by the Water Commissioners.
- VII The Board of Commissioners shall annually in the report to the District, give an estimated budget for the ensuing year.
- VIII
 - a) The Moderator shall appoint a Finance Committee to advise the Commissioners. The Committee shall consist of three voters of the District and shall be appointed in the following manner:
 - One member shall be appointed for one year;
 - One member shall be appointed for two years; and
 - One member shall be appointed for a term of three years.Thereafter, each appointment shall be for a term of three years.
 - b) No member of the Finance Committee shall serve any other standing committee of the District or the Town of Acton having to do with expenditure of funds.
 - c) The Finance Committee shall review the budget for the annual meeting and shall make recommendations to the Commissioners on any matters of a financial nature arising out of an annual or special meeting, and shall make recommendations as to the long range fiscal plans of the District.

- IX The Commissioners shall appoint annually a Treasurer-Collector which office shall have all the powers and duties conferred by law upon a collector of taxes and district treasurer.
- X Any person violating any order restricting water use imposed by vote of the Commissioners shall be fined not more than \$200.00 for each offense, which shall inure to the district for such uses as the Commissioners may direct. Fines shall be recovered by indictment or on a complaint before a district court, or by non-criminal disposition in accordance with section Twenty-one D of Chapter 40 of the General Laws. Every day that such violation continues shall constitute a separate offense.
- XI
 - a) A five member Water - Land Management Advisory Committee is hereby established. Two members to be appointed by the Commissioners for a term of three years, two members to be appointed by the Moderator of the District for a term of two years, one member to be appointed by the Selectmen for a term of one year. Thereafter, each appointment shall be for a term of three years.
 - b) The Advisory Committee shall review and make recommendations to the Commissioners on matters relating to water and land management policies of the district and shall make recommendations to the Commissioners on any matters relating to agreement authorized under the "Bylaw to Regulate the Removal of Sale of Sand and Gravel from Lands in District Use", and shall undertake such other tasks related to water and land management as the Commissioners deem appropriate.

NEW BY-LAW

"By-Law to Regulate the Removal and Sale of Sand and Gravel from Lands in District Use".

Section One. The purpose of this bylaw is to regulate the removal of sand and gravel on lands owned or leased by the district so as to promote safe and sound economic development, improvement and management of said land; and protect and preserve the purity of the water supply, wells and aquifers.

Section Two. The Commissioners shall fix a reasonable time for a public hearing on any proposal for removal and sale of sand and gravel from land in district use. Notice of the public hearing shall be given at least two weeks prior to the hearing by publication of the time, place and purpose of the hearing in a local newspaper, and by mailing a copy of said notice to the owners of all property within five hundred (500) feet of the property line of the district land as they appear on the most recent applicable tax list. Included in the list of owners shall be abutters, owners of land directly opposite on any public or private street, and abutters to abutters within the five hundred (500) feet aforesaid.

The public hearing shall be held no later than 21 days prior to the business meeting of the district which includes an appropriate warrant article for action by voters of the district. Action by voters of the district on any article permitting the Commissioners to enter into a written contract for removal and/or sale of earth materials from lands of the district shall require a two-thirds vote. At the public hearing the Commissioners shall present evidence of the need for excavation, removal and/or sale of earth materials from district lands; the depth and limits of excavation; a site specific map of wetlands, limits of 100 year flood plain, vegetation, surface waters, topography (before and after), property lines and adjacent land uses; and estimation of high water table on the land.

Section Three. In entering into a written contract not to exceed one year, the Commissioners shall impose conditions and specifications including but not limited to the following:

- A. A detailed plan showing limits and phases of excavation.
- B. Specific and reasonable hours of operation, including truck arrival and departure.
- C. Required stockpiling of topsoil for use in restoration.
- D. Prohibition of excavation within 10 feet of the annual high water table.
- E. Prohibition of removal within 100 feet of property lines and existing public ways.
- F. Limitation of work faces to 10 vertical feet and requirement that all faces shall be broken down to their natural angle of repose at the end of each working day. Any existing non complying faces shall be reduced as fast as safety and practical engineering permit.
- G. Maintenance of natural vegetation on undisturbed land for screening and noise reduction purposes, and provision for dust suppression on the site.
- H. A requirement that restoration be carried on simultaneously with excavation, so that when any three acres operation area has been excavated, at least two acres shall be restored before work commences on the next contiguous three acres, so that at no time will more than four acres be unrestored.
- I. Provisions to grade slopes safely, loam and revegetate all disturbed areas.
- J. Removal of debris, stumps, boulders, etc. from the site and dispose of in an approved location or, in the case of inorganic matter, buried and covered with at least two feet of soil.
- K. A requirement that all retained subsoil and topsoil be spread over the disturbed area and seeded. Trees or shrubs of prescribed species will be planted to provide screening and reduce erosion during the establishment period.
- L. A requirement that final restoration work be completed within 60 days, weather permitting, after completion of excavation operations.
- M. A requirement of posting of surety bond, performance and payment bond or other adequate security to insure compliance with terms of the contract.
- N. Regular inspection by the Commissioners or their agent at reasonable hours to insure that contract provisions are being adhered to, and provision for halting operations for any violation.
- O. Other appropriate conditions, limitations and safeguards as the Commissioners deem necessary for the protection of the public health, safety, convenience and welfare, and for protection and preservation of the purity of the water.