

CHELMSFORD WATER DISTRICT

REPORT ON EXAMINATION OF
BASIC FINANCIAL STATEMENTS

JUNE 30, 2017

CHELMSFORD WATER DISTRICT

REPORT ON EXAMINATION OF
BASIC FINANCIAL STATEMENTS

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JUNE 30, 2017

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Independent Auditor's Report

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Report on the Financial Statements We have audited the accompanying financial statements of the governmental activities, and the aggregate remaining fund information of the Chelmsford Water District, as of and for the year ended June 30, 2017 and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinion In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the governmental activities and the aggregate remaining fund information of the Chelmsford Water District, as of June 30, 2017, and the changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters - Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and required supplementary information, as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

**Chelmsford Water District
Chelmsford, Massachusetts**

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OVERVIEW OF FINANCIAL STATEMENTS

The Chelmsford Water District's financial statements are comprised of the following: Government Wide Financial Statement, Governmental Funds Financial Statement, Reconciliations of the Financial Statements and a Comparison of Actual to Budget. These statements provide different views of the District. One includes assets and liabilities of the District and the other focuses on the governmental funds.

As management of the Chelmsford Water District, we offer readers of the Chelmsford Water District's financial statements, this narrative and analysis of financial activities of the year ended June 30, 2017.

FINANCIAL HIGHLIGHTS

The assets of the Chelmsford Water District exceeded its liabilities at the close of the fiscal year by \$31,921,970. Of this amount, \$2,939,930 (unrestricted net assets) may be used to meet the ongoing obligations of the District.

The total assets of the District are \$41,944,190. Of this amount, \$8,192,135 represents current assets and \$33,669,909 represents capital assets.

The total liabilities of the District are \$10,023,020. Of this amount, \$1,075,782 represents current liabilities and \$8,947,239 represents long term liabilities.

The total deferred outflows related to pensions of the District are \$1,253,055 and the total deferred inflows are \$737,955.

Total net assets of the District are \$32,436,268 made up of the following categories:

\$25,443,492 Invested in Capital Assets net of related debt

\$ 2,703,492 Restricted for Capital Projects

\$ 1,349,354 Bond Debt Fund

\$ 2,939,930 Unrestricted Net Assets

The District continues to service the debt of the Riverneck Road Treatment Plant, Crooked Spring Treatment Plant and other capital projects with bonds retiring by FY 2027. The remaining principal is \$8,226,417.

The overall financial position of the District is stable. The change in net assets for the fiscal year amounts to an increase of \$1,487,787.

The District adopts an annual appropriated budget for its government wide activities. A budgetary comparison has been included. Actual revenues for the year were higher than budgeted revenues by \$844,327. Actual expenditures were lower than budgeted expenditures by \$446,766.

Free cash of the District as reported to the Massachusetts Department of Revenue is \$2,725,847.

SUMMARIZED FINANCIAL DATA

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Income

Water Rates and Fees	\$ 4,885,160
Bond Debt Fee Receipts	\$ 1,387,259
Interest Income	\$ 109,898
Increase Fair Value of Investments	\$ 249,740
Total Income	\$ 6,632,057

Expenses	<u>\$ 5,144,270</u>
Change in Net Assets	<u><u>\$ 1,487,787</u></u>

CAPITAL ASSETS

The Chelmsford Water District's investment in capital assets as of June 30, 2017 amounts to \$33,669,909 (net of accumulated depreciation). This investment includes land, buildings and improvements, pumping stations and tanks, infrastructure and improvements, machinery and equipment. The District added \$884,820 in capital assets this year. The District transferred \$1,440,000 from the general fund to the capital projects fund to fund these expenditures.

Property and equipment is depreciated utilizing the straight-line depreciation method and estimated useful lives as recommended by the Commonwealth of Massachusetts Department of Revenue Bureau of Accounts. The depreciation expense for this fiscal year was \$1,235,587.

Capital Assets are replaced following a replacement schedule prepared by the District.

FISCAL YEAR 2018

The District has appropriated a balanced annual budget for FY 2018 of \$5,591,786. The District anticipates that the revenues will be equal projected expenses for fiscal year 2018.

The District has many ongoing capital projects including infrastructure upgrades for main looping of Wiggins, Woodlawn, Ideal and Miland, the rehabilitation and restoration of Summit, Amble and Turnpike storage tanks and rehabilitation to Mill Road Well 2. The operations and administrative offices at 20 Watershed Lane are being rehabilitated and upgraded. In addition, the District is upgrading aging vehicles including a 4 wheel and a 6 wheel dump truck.

CHELMSFORD WATER DISTRICT					Page 4
Statement of Net Position					
June 30, 2017	<i>Unrestricted</i>	<i>Bond Debt</i>	<i>Restricted</i>	<i>Invested in</i>	<i>Total</i>
	<i>Fund</i>	<i>Fund</i>	<i>Cap Projects</i>	<i>Capital</i>	
ASSETS					
<i>Current Assets</i>					
Cash and Cash Equivalents	\$1,988,059	\$1,354,135			\$3,342,193
Due to/from unrestricted/bond debt fund	(95,220)	95,220			0
Due to/from unrestricted/capital projects	(2,703,492)		\$2,703,492		0
Investments	3,586,772				3,586,772
Accounts Receivable less allow bad debts	468,169				468,169
Unbilled Accounts Receivable	795,000				795,000
Total Current Assets	4,039,288	1,449,355	2,703,492	\$0	8,192,135
<i>Non Current Assets</i>					
Land				683,807	683,807
Depreciable Capital Assets, Net				32,986,102	32,986,102
Bond Refinance Costs, Net	82,146				82,146
Total Non Current Assets	82,146	0	0	33,669,909	33,752,055
Total Assets	4,121,434	1,449,355	2,703,492	33,669,909	41,944,190
DEFERRED OUTFLOWS OF RESOURCES					
Deferred Outflows Related to Pensions	1,253,055				1,253,055
LIABILITIES AND NET POSITION					
LIABILITIES					
<i>Current Liabilities</i>					
Current Portion Long Term Debt				925,510	925,510
Accrued Bond Interest Payable		100,000			100,000
Miscellaneous Liabilities	50,272				50,272
Total Current Liabilities	50,272	100,000	0	925,510	1,075,782
<i>Long Term Liabilities</i>					
Bonds Payable				7,300,907	7,300,907
Accrued Compensated Absences	217,000				217,000
Other Post Employment Benefits	264,178				264,178
Net Pension Liability	1,165,154				1,165,154
Total Long Term Liabilities	1,646,332	0	0	7,300,907	8,947,239
Total Liabilities	1,696,604	100,000	0	8,226,417	10,023,020
DEFERRED INFLOWS OF RESOURCES					
Deferred Inflows Related to Pensions	737,955				737,955
NET POSITION					
Unrestricted	2,939,930				2,939,930
Restricted for Bond Debts		1,349,354			1,349,354
Restricted for Capital Projects			2,703,492		2,703,492
Net Investment in Capital Assets				25,443,492	25,443,492
Total Net Position	\$2,939,930	\$1,349,354	\$2,703,492	\$25,443,492	\$32,436,268

SEE NOTES TO THE BASIC FINANCIAL STATEMENTS

CHELMSFORD WATER DISTRICT					Page 5
Statement of Activities	<i>Unrestricted</i>	<i>Bond Debt</i>	<i>Restricted</i>	<i>Invested in</i>	
For the Year Ended June 30, 2017	<i>Fund</i>	<i>Fund</i>	<i>Cap Projects</i>	<i>Capital</i>	<i>Total</i>
REVENUES					
Water Rates and Services	\$4,885,160				\$4,885,160
Bond Debt Fee Receipts		\$1,387,259			1,387,259
Interest Revenue	107,690	2,208			109,898
Increase Fair Value of Investments	249,740				249,740
Total Revenues	5,242,591	1,389,466	\$0	\$0	6,632,057
EXPENSES					
Salaries and Wages	1,548,527				1,548,527
Other Post Employment Benefits Expense	(4,804)				(4,804)
Depreciation Expense				1,235,587	1,235,587
Equipment and Building	195,718				195,718
Fuel, Light and Power	140,692				140,692
Group Insurance	279,745				279,745
FICA/Medicare Tax	18,769				18,769
System Maintenance Reserve Expense	71,734				71,734
Riverneck Rd Plant Operations	129,472				129,472
Crooked Spring Plant Operations	214,434				214,434
Smith St Plant Operations	87,672				87,672
Meters and Equipment	21,385				21,385
General Insurance	102,948				102,948
Interest & Fees Expense	277,287	127,483			404,770
Water Treatment	1,062				1,062
Middlesex Retirement Expense	199,317				199,317
Trucks Backhoe and Machinery	55,881				55,881
Printing Advertising Stationary	31,840				31,840
New Service and Repairs	31,840				31,840
Laboratory Testing	40,174				40,174
Consulting and Engineering	24,116				24,116
Office Equipment Maintenance	67,357				67,357
Professional Fees	54,202				54,202
Telephone and Radio	20,111				20,111
Consumer Outreach	7,871				7,871
Police Hire	16,437				16,437
Dues, Licenses, Certificates	8,875				8,875
D.E.P. Clean Water Assessment	6,445				6,445
Miscellaneous Equipment	2,027				2,027
Unemployment Compensation	1,709				1,709
Administration Misc and Transportation	2,215				2,215
Water Main Extensions	32,947				32,947
Investment Advisory Fees	40,249				40,249
Amortization Expense	9,664				9,664
Retirement Fund Expense	43,282				43,282
Total Expenses	3,781,200	127,483	0	1,235,587	5,144,270
CHANGE IN NET POSITION	1,461,391	1,261,983	0	(1,235,587)	1,487,787
Transfers General to Capital Projects	(1,440,000)		1,440,000		0
Capital Projects/Expenditures	(122,880)		(761,940)	884,820	0
Debt Principal Retired		(950,202)		950,202	0
Net Position - Beginning of Year	3,041,419	1,037,573	2,025,432	24,844,057	30,948,481
Net Position - End of Year	\$2,939,930	\$1,349,354	\$2,703,492	\$25,443,492	\$32,436,268

SEE NOTES TO THE BASIC FINANCIAL STATEMENTS

CHELMSFORD WATER DISTRICT				Page 6
Governmental Funds - Balance Sheet				
June 30, 2017				
			<i>Capital</i>	<i>Total</i>
	<i>General</i>	<i>Bond Debt</i>	<i>Projects</i>	<i>Governmental</i>
<i>ASSETS</i>	<i>Fund</i>	<i>Fund</i>	<i>Fund</i>	<i>Funds</i>
<i>Current Assets</i>				
Cash and Cash Equivalents	\$1,988,059	\$1,354,135		\$3,342,193
Due to/from general/bond debt fund	(95,220)	95,220		0
Due to/from general/capital projects fund	(2,703,492)		\$2,703,492	0
Investments	3,586,772			3,586,772
Total Assets	\$2,776,119	\$1,449,355	\$2,703,492	\$6,928,966
<i>LIABILITIES AND NET ASSETS</i>				
<i>LIABILITIES</i>				
<i>Current Liabilities</i>				
Miscellaneous Liabilities	\$50,272			\$50,272
Total Current Liabilities	50,272	\$0	\$0	50,272
Total Liabilities	50,272	0	0	50,272
<i>NET ASSETS</i>				
Net Assets	2,725,847	1,449,354	2,703,492	6,878,693
Total Liabilities and Net Assets	\$2,776,119	\$1,449,354	\$2,703,492	\$6,928,965

SEE NOTES TO THE BASIC FINANCIAL STATEMENTS

CHELMSFORD WATER DISTRICT				Page 7
Governmental Funds - Statement of Revenues, Expenditures and				
Changes in Fund Balances			<i>Capital</i>	<i>Total</i>
For the Year Ended June 30, 2017	<i>General</i>	<i>Bond Debt</i>	<i>Projects</i>	<i>Governmental</i>
	<i>Fund</i>	<i>Fund</i>	<i>Fund</i>	<i>Funds</i>
REVENUES				
Water Rates and Services	\$4,983,932			\$4,983,932
Bond Debt Fee Receipts		\$1,387,259		1,387,259
Interest Revenue	107,690	2,208		109,898
Increase Fair Value of Investments	249,740			249,740
Total Revenues	5,341,363	1,389,466	\$0	6,730,829
EXPENSES				
Capital Project Expenditures			761,940	761,940
Salaries and Wages	1,539,927			1,539,927
Other Post Employment Benefits Expense	150,000			150,000
Retirement Fund Expense	500,000			500,000
Bonds, Interest & Fees Expense		1,219,685		1,219,685
Fuel, Light and Power	140,692			140,692
Group Insurance	279,745			279,745
FICA/Medicare Tax	18,769			18,769
Equipment and Building	195,718			195,718
System Maintenance Reserve Expense	71,734			71,734
Riverneck Rd Plant Operations	129,472			129,472
Crooked Spring Plant Operations	214,434			214,434
Smith St Plant Operations	87,672			87,672
Meters and Equipment	144,265			144,265
General Insurance	102,948			102,948
Water Treatment	1,062			1,062
Middlesex Retirement Assessment	199,317			199,317
Trucks Backhoe and Machinery	55,881			55,881
Printing Advertising Stationery	31,840			31,840
New Service and Repairs	31,840			31,840
Laboratory Testing	40,174			40,174
Consulting and Engineering	24,116			24,116
Office Equipment Maintenance	67,357			67,357
Professional Fees	54,202			54,202
Telephone and Radio	20,111			20,111
Consumer Outreach	7,871			7,871
Police Hire	16,437			16,437
Dues, Licenses, Certificates	8,875			8,875
D.E.P. Clean Water Assessment	6,445			6,445
Miscellaneous Equipment	2,027			2,027
Unemployment Compensation	1,709			1,709
Administration Misc and Transportation	2,215			2,215
Water Main Extensions	32,947			32,947
Investment Advisory Fees	40,249			40,249
Total Expenses	4,220,051	1,219,685	761,940	6,201,676
CHANGE IN NET ASSETS	1,121,312	169,781	(761,940)	529,153
Transfers General to Capital Projects	(1,440,000)		1,440,000	0
Fund Balances - Beginning of Year	3,044,535	1,279,573	2,025,432	6,349,540
Fund Balances - End of Year	\$2,725,847	\$1,449,354	\$2,703,492	\$6,878,693

SEE NOTES TO THE BASIC FINANCIAL STATEMENTS

CHELMSFORD WATER DISTRICT	Page 8
Reconciliation of the Governmental Funds Balance Sheet Total Net Assets to the Statement of Net Position - June 30, 2017	
Total Governmental Fund Net Assets	\$6,878,693
Certain assets used in governmental activities are not financial resources, and therefore are not reported in the funds.	
Capital assets	33,669,909
Bond refinance costs	82,146
The Statement of Net Assets includes accounts receivables and other assets that are not recognized on the governmental funds	
Accounts receivable	468,169
Unbilled accounts receivable	795,000
The Statement of Net Assets includes long term debt and the related accrued interest and accrued liabilities whereas in the governmental funds these are not reported until paid.	
Long term debt including current portion	(8,226,417)
Accrued interest payable	(100,000)
Accrued compensated absences	(217,000)
Other post employment benefits	(264,178)
Net pension liability, including deferred outflows and inflows	(650,054)
Net Position of Governmental Activities	\$32,436,268
CHELMSFORD WATER DISTRICT	
Reconciliation of the Statement of Revenues, Expenditures and Changes in Fund Balances of Governmental Funds to the Statement of Activities - For the Year Ended June 30, 2017	
Change in Net Assets - Total Governmental Funds	\$529,153
Governmental funds report capital outlays as expenditures. However, in the Statement of Activities, the cost is allocated over the estimated useful lives and is depreciated.	
Capital expenditures - capital projects fund	761,940
Capital expenditures - meters expense	122,880
Depreciation expense	(1,235,587)
Some revenues reported in the Statement of Activities do not provide current financial resources and some expenses reported in the Statement of Activities do not consume current financial resources and, therefore, are not reported in the governmental funds.	
Water rates and services	(98,772)
Interest expense	(135,287)
Amortization expense	(9,664)
Salaries/compensated absences	(8,600)
Other post employment benefits expense	4,804
Pension expense actuarially calculated	(43,282)
The repayment of long-term obligations consumes the financial resources of governmental funds, but it has no effect on net assets.	
Long-term debt repayment	950,202
Other post employment benefits funding	150,000
Net pension liability funding	500,000
Change in Net Position on Statement of Activities	\$1,487,787

CHELMSFORD WATER DISTRICT				Page 9
Governmental Funds - Statement of Revenues, Expenditures and Changes				
in Fund Balance - Budget and Actual				
For the Year Ended June 30, 2017		<i>Actual</i>	<i>Actual</i>	<i>Variance</i>
		<i>General</i>	<i>Bond Debt</i>	<i>Positive</i>
	<i>Budget</i>	<i>Fund</i>	<i>Fee Fund</i>	<i>(Negative)</i>
REVENUES				
Water Rates and Services	\$4,486,502	\$4,983,932		\$497,430
Bond Debt Fee Receipts	1,400,000		\$1,387,259	(12,741)
Interest Revenue		107,690	2,208	109,898
Increase Fair Value of Investments		249,740		249,740
Total Revenues	5,886,502	5,341,363	1,389,466	844,327
EXPENSES				
Salaries and Wages	1,643,000	1,539,927		103,073
Other Post Employment Benefits Expense	150,000	150,000		0
Retirement Fund Expense	500,000	500,000		0
Bonds, Interest & Fees Expense	1,219,685	0	1,219,685	0
Equipment and Building	275,000	195,718		79,282
Fuel, Light and Power	185,000	140,692		44,308
Group Insurance	310,000	279,745		30,255
FICA/Medicare Tax	18,000	18,769		(769)
Riverneck Rd Plant Operations	165,000	129,472		35,528
Crooked Springs Plant Operations	210,000	214,434		(4,434)
Smith St Plant Operations	105,000	87,672		17,328
Meters and Equipment	130,000	144,265		(14,265)
Water Treatment	1,000	1,062		(62)
Middlesex Retirement Assessment	199,317	199,317		0
General Insurance	140,000	102,948		37,052
Laboratory Testing	50,000	40,174		9,826
System Maintenance Reserve Expense	70,000	71,734		(1,734)
Trucks Backhoe and Machinery	80,000	55,881		24,119
New Service and Repairs	40,000	31,840		8,160
Professional Fees	55,000	54,202		798
Printing Advertising Stationery	45,000	31,840		13,160
Consulting and Engineering	30,000	24,116		5,884
Office Equipment Maintenance	70,000	67,357		2,643
Consumer Outreach	22,000	7,871		14,129
Police Hire	20,000	16,437		3,563
Telephone and Radio	20,000	20,111		(111)
D.E.P. Clean Water Assessment	8,000	6,445		1,555
Dues, Licenses, Certificates	14,000	8,875		5,125
Miscellaneous Equipment	5,000	2,027		2,973
Administration Misc and Transportation	3,500	2,215		1,285
Unemployment Compensation	3,000	1,709		1,291
Water Main Extensions	100,000	32,947		67,053
Investment Advisory Fees		40,249		(40,249)
Total Expenses	5,886,502	4,220,051	1,219,685	446,766
REVENUES OVER EXPENDITURES	0	1,121,312	169,781	1,291,093
Transfers General Fund to Capital Projects	(1,440,000)	(1,440,000)		0
Budgetary Fund Balance - Beginning of Year	4,324,108	3,044,535	1,279,573	0
Budgetary Fund Balance - End of Year	\$2,884,108	\$2,725,847	\$1,449,354	\$1,291,093

SEE NOTES TO THE BASIC FINANCIAL STATEMENTS

CHELMSFORD WATER DISTRICT	Page 10
Statement of Fiduciary Net Position - Other Post Employment Benefits Fund	
June 30, 2017	
<i>ASSETS</i>	
Current Assets	
Investments	\$862,677
Total Assets	\$862,677
<i>LIABILITIES</i>	
<i>NET POSITION</i>	
Held in Trust for Other Post Employment Benefits	\$862,677
Total Net Position	\$862,677
CHELMSFORD WATER DISTRICT	
Statement of Changes in Fiduciary Net Position - Other Post Employment Benefits Fund	
For the Year Ended June 30, 2017	
<i>ADDITIONS</i>	
Employer Contribution	\$150,000
Dividend and Interest Income	10,788
Net Increase in Fair Value of Investments	93,530
Total Additions	254,318
<i>DEDUCTIONS</i>	
Investment Management Fees	4,193
Total Deductions	4,193
Additions over Deductions	250,125
Net Position - Beginning of Year	612,552
Net Position - End of Year	\$862,677

SEE NOTES TO THE BASIC FINANCIAL STATEMENTS

CHELMSFORD WATER DISTRICT
Notes to the Basic Financial Statements
June 30, 2017

NOTE 1 – GENERAL STATEMENT AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES
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Reporting Entity – The Chelmsford Water District ("the District") is a municipality incorporated in the Commonwealth of Massachusetts with the purpose of providing water and related services to the residents and businesses of Chelmsford. The District is a separate municipality, distinct from the Town of Chelmsford. There are no component units included within the reporting entity. The basic operations of the District are financed by water rate and services charges. The District's financial statements include the accounts of all District operations. Inhabitants of the Town of Chelmsford who are qualified to vote in elections and town affairs are eligible to vote on matters concerning the District and to act on articles of the District.

Summary of Significant Accounting Policies - The following significant accounting policies were applied in the preparation of the accompanying financial statements:

Basis of Accounting and Presentation - The District reports its financial statements in accordance with both the Governmental Accounting Standards Board requirements (accrual basis) and with the Commonwealth of Massachusetts uniform reporting system (cash basis). The financial statements include reconciliations that identify the differences between the accrual basis and cash basis financial statements.

The two reporting standards are briefly described here.

GOVERNMENT WIDE FINANCIAL STATEMENTS - This financial model includes the presentation of Management's Discussion and Analysis as well as Government Wide financial statements that are prepared on the accrual method of accounting. Revenues are reported when earned and expenses are reported when incurred, regardless of when payments are either received or made. The accrual basis financial statements report capital assets and the related depreciation expense and accumulated depreciation. All liabilities are reported, including compensated absences, short and long term debt, net pension liability and other post employment benefits liability. The net position (equity) is reported in four components: unrestricted, restricted for bond debts, restricted for capital projects, and invested in capital assets net of related debt.

GOVERNMENTAL FUNDS – This financial model presents the District's governmental funds. Under this method, revenues are recorded when received and expenditures are recorded when they are paid. Accounts receivable are fully reserved until they are collected and recorded as income.

Capital assets and infrastructure are not recorded in the governmental funds. Funds used to acquire capital assets are accounted for as expenditures in the Capital Projects Fund in the fiscal year payment is made. Appropriation balances of capital projects are carried forward in the Capital Projects Fund until completion of the project or until unexpended balances are transferred to the General Fund by approval of the Annual Meeting. The governmental funds report the unreserved fund balance, commonly referred to as Free Cash.

Budgets and Budgetary Accounting - The District's annual budget is a legally adopted budget that is approved at the District's Annual Meeting. Appropriations for the Capital Projects Fund are also approved at the Annual Meeting. Any budget overrides or additional appropriations must be approved at a specially called District Meeting.

Capital Assets - Capital assets, which include land, infrastructure, buildings, vehicles and office equipment, are reported in the Government-Wide financial statements at historical cost or estimated historical cost. Depreciation is provided using the estimated useful lives recommended by the Massachusetts Department of Revenue, Division of Local Services, Bureau of Accounts.

Compensated Absences - The District has a policy of buying back up to 120 days of a retiring employee's unused sick time if the employee was hired before July 1, 2006. Regular employees hired after July 1, 2006 may accumulate sick time for use during employment with the District but will not be compensated for unused sick time upon retirement.

CHELMSFORD WATER DISTRICT
Notes to the Basic Financial Statements
June 30, 2017

NOTE 1 – GENERAL STATEMENT AND SIGNIFICANT ACCOUNTING POLICIES -(continued)

District Funds - The District categorizes its funds into governmental and fiduciary funds.

The following *governmental funds* are reported:

Unrestricted Fund - This primary operating fund is used for financial resources other than those that are required to be accounted for in another fund.

Bond Debt Fund - This fund reports receipts for “Bond Debt Fee” that all water takers pay based on the size of water service, regardless of water usage. The receipts are used to pay principal, interest and fees on the District’s debt.

Restricted Capital Projects Fund - This fund reports the activity for the appropriations and spending for construction projects or for acquiring assets.

Invested in Capital Assets Fund - This fund reports the historical cost of fixed assets less accumulated depreciation.

The following *fiduciary fund* is reported:

Other Post Employment Benefits (OPEB) Fund – This fund is an irrevocable trust fund established by the District in 2013 pursuant to Massachusetts General Laws. The fund can only be used to fund the District’s OPEB obligations.

NOTE 2 - CASH AND CASH EQUIVALENTS

The District considers all highly liquid investments with a maturity date of less than one year to be cash equivalents.

NOTE 3 – INVESTMENTS

The District’s investments are managed pursuant to Massachusetts General Laws by two advisory firms with the guideline that there is low risk to principal while providing a continuing revenue stream. The investments are carried at fair value. As of June 30, 2017, the District had the following investments:

Description	Unrestricted Fund	OPEB Fiduciary Fund
Cash and equivalents	\$223,965	\$53,569
Bonds (corporate & government)	1,117,712	198,717
Equities	2,245,095	610,391
Total	\$3,586,772	\$826,677

NOTE 4 - INTERFUND RECEIVABLES AND PAYABLES

At June 30, 2017, \$95,220 was due to the Bond Debt Fund and \$2,703,492 was due to the Capital Projects Fund from the General Fund/Unrestricted Fund.

NOTE 5 - RETIREMENT PLANS

Substantially all employees of the District are members of the Middlesex County Retirement System. The retirement system is funded by both employer and employee contributions. The District’s annual contributions to the retirement system are calculated to pay current normal cost as well as unfunded actuarially calculated liabilities from prior years. In addition, employees contribute 5 to 11% of their base pay depending on when they entered the system.

The District’s contribution (as calculated by the Middlesex County Retirement System) for the year ended June 30, 2017 was \$199,317. In addition, the District voluntarily contributed \$500,000 from the General/Unrestricted Fund to the Middlesex County Retirement System. This voluntary payment has been applied against the District’s net pension liability. The District has a voluntary Section 457 retirement plan to which employees may make pre-tax contributions. The maximum employee contribution is adjusted annually per Federal tax regulations.

CHELMSFORD WATER DISTRICT
Notes to the Basic Financial Statements
June 30, 2017

NOTE 6 - CAPITAL ASSETS

Capital asset activity for the District for the year ended June 30, 2017 consisted of the following:

Description	Beginning Balance	Additions	Reclassifications	Ending Balance
Land	\$683,807			\$683,807
Infrastructure	48,457,631	640,393	118,302	49,216,326
Buildings	396,000	810		396,810
Vehicles	1,161,516	234,631		1,396,147
Office Equipment	125,576			125,576
Capital Assets Under Construction	118,302	8,986	(118,302)	8,986
Total at Historical Cost	50,942,832	884,820	-	51,827,651
Less Accumulated Depreciation	(16,922,155)	(1,235,587)		(18,157,742)
Capital Assets, Net	\$34,020,677			33,669,909

Infrastructure additions include \$122,880 of meters that were budgeted as expenses but were capitalized as assets in accordance with generally accepted accounting principles. The balance of Capital Assets Under Construction represents renovation work done on the office building as of June 30, 2017.

NOTE 7 - LONG TERM DEBT

The following is a summary of the changes in long-term debt for the year ended June 30, 2017:

Description	Interest Rate	Beginning Balance	(Retired)	Ending Balance
Riverneck - pool 9 & 11	2.0%	\$2,601,619	(\$280,202)	\$2,321,417
Crooked Springs/Other	4.0 - 5.0%	635,000	(635,000)	0
Crooked Springs/Other	3.0%	5,940,000	(35,000)	5,905,000
Totals		\$9,176,619	(\$950,202)	\$8,226,417

Interest and fees expense of \$404,770 reported in the Statement of Activities reflects the accrual basis calculation of interest incurred during the year ended June 30, 2017 on long term notes, regardless of when the actual payments of interest were made by the District. Principal of \$950,202 plus interest and fees of \$269,483 for a total of \$1,219,685 is reported as Bonds, Interest and Fees on the Governmental Funds - Statement of Revenues, Expenditures and Changes in Fund Balances for the year ended June 30, 2017.

The annual debt service requirements for principal and interest for Long Term Debt at June 30, 2017 are as follows:

Fiscal Years	Principal	Interest	Total
2018	\$925,510	\$220,478	\$1,145,988
2019	930,823	189,048	1,119,871
2020	936,143	160,595	1,096,738
2021	931,469	135,033	1,066,502
2022	931,801	111,085	1,042,886
2023-2027	3,570,671	254,177	3,824,848
Totals	\$8,226,417	\$1,070,416	\$9,296,833

CHELMSFORD WATER DISTRICT
Notes to the Basic Financial Statements
June 30, 2017

NOTE 7 - LONG TERM DEBT – continued

As of June 30, 2017 the District has authorized and unissued debt as follows:

Purpose	Date of Vote	Original Authorization	Amount Issued	Amount Rescinded	Amount Unissued
Booster Station	January 28, 2008	\$1,500,000	\$800,000		\$700,000
Treatment Plant	January 28, 2008	2,500,000		\$1,220,000	1,280,000
Total		\$4,000,000	\$800,000	\$1,220,000	\$1,980,000

Advanced Refunding and Defeased Bonds:

In order to take advantage of favorable interest rates, the District issued \$6,020,000 of general obligation refunding bonds during the year ended June 30, 2016. General obligation bonds of \$5,995,000 were defeased by placing the proceeds of the refunding bond, including the premium, in an irrevocable trust to provide for the full debt service payments on the refunded bonds. Accordingly, the trust assets and liabilities for the defeased bonds are not included in the District's basic financial statements. The transaction resulted in an economic gain of \$561,274 and a reduction of \$692,198 in future debt service payments.

The District incurred \$96,642 in underwriting and related expenses to the issuance of the refunding bonds. This cost is being amortized over the ten year life of the new bonds. Amortization expense of \$9,664 has been reported in the Statement of Activities.

In conjunction with the bond refunding activity, the District escrowed three payments of \$138,644 each for interest due on January 15, 2016 (last fiscal year), July 15, 2016 and January 15, 2017. The second and third interest payments of \$138,644 each were released during the current fiscal year, and the combined amount of \$277,288 is included in Interest Expense on the Statement of Activities.

NOTE 8 – OTHER POST-EMPLOYMENT BENEFITS

The District implemented Governmental Accounting Standards Board Statement 45, Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions (GASB 45) starting in the fiscal year ended June 30, 2010. As allowed by GASB 45, the District has established the net Other Post Employment Benefits (OPEB) obligation at zero at the beginning of that transition year and has applied the measurement and recognition requirements of GASB 45 on a prospective basis.

Plan Description - The District administers a defined benefit healthcare plan in conjunction with the Town of Chelmsford. The plan provides lifetime healthcare insurance for eligible retirees and their spouses through the Town of Chelmsford's group health insurance plan. Massachusetts General Laws Chapter 32B assigns authority for the Town of Chelmsford to establish and amend benefit provisions of the plan. Benefit provisions are negotiated between the Town of Chelmsford and the unions representing Town employees and are renegotiated each bargaining period. Although Chelmsford Water District employees are non-union, their benefits are consistent with those of Town employees. The Retiree Health Plan does not issue a publicly available financial report.

Funding Policy- Contribution requirements are set by the Board of Water Commissioners and approved with a Special Meeting vote by the water takers of the District. The required contribution is based on a pay-as-you-go financing requirement. The District contributes 60 percent of the cost of current-year premiums for eligible retired plan members and their spouses. Plan members receiving benefits contribute the remaining 40 percent of their premium costs.

CHELMSFORD WATER DISTRICT
Notes to the Basic Financial Statements
June 30, 2017

NOTE 8 – OTHER POST-EMPLOYMENT BENEFITS - continued

Annual OPEB Cost and Net OPEB Obligation- The District's annual other postemployment benefits (OPEB) cost (expense) is calculated based on the annual required contribution of the employer (ARC), an amount actuarially determined in accordance with GASB 45. The ARC represents a level of funding that, if paid on an ongoing basis, is projected to cover the normal cost each year and amortize any unfunded actuarial liabilities over a period not to exceed thirty years.

The components of the District's annual obligation are summarized in the following table:

Normal cost	\$23,808
Amortization of unfunded actuarial accrued liability	12,118
Annual OPEB cost	35,926
Contributions made	187,681
Decrease in net OPEB obligation	(154,804)
Net OPEB obligation- beginning of year	418,982
Net OPEB obligation- end of year	\$264,178

The District's annual OPEB cost, the percentage of annual OPEB cost contributed to the plan, and the net OPEB obligations for 2017 and the two most recent preceding years were as follows:

Fiscal Year Ended	Annual OPEB Cost	% of Annual OPEB Cost Contributed	Net OPEB Obligation
6/30/2017	\$35,926	522%	\$264,178
6/30/2016	\$35,926	522%	\$418,982
6/30/2015	\$160,103	125%	\$573,786

Funded Status and Funding Process- The funded status of the Plan as of the most recent actuarial valuation dates is:

Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability (AAL)	Unfunded AAL (UAAL)	Funded Ratio	Covered Payroll	UAAL as a % of Covered Payroll
7/1/2015	\$577,869	\$728,241	\$150,372	79%	\$1,255,467	12%
7/1/2012	0	\$1,456,649	\$1,456,649	0%	\$1,251,443	116%
7/1/2009	0	\$2,936,775	\$2,936,775	0%	\$1,223,887	240%

Actuarial valuations of an ongoing plan involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality, and the healthcare cost trend. Amounts determined regarding the funded status of the plan and the annual required contributions of the employer are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The schedule of funding progress, presented as required supplementary information following the notes to the financial statements, presents multiyear trend information about whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liabilities of benefits.

CHELMSFORD WATER DISTRICT
Notes to the Basic Financial Statements
June 30, 2017

NOTE 8 – OTHER POST-EMPLOYMENT BENEFITS - continued

Actuarial Methods and Assumptions- Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and the plan members) and include the types of benefits provided at the time of each valuation and historical pattern of sharing of benefit costs between the employer and plan members to that point. Since the District has fewer than 100 employees, it has elected to use the alternative measurement method to calculate the actuarial valuations of its OPEB. The actuarial method and assumptions used include techniques that are designed to reduce the effects of short-term volatility in actuarially accrued liabilities and value of assets, consistent with the long-term perspective of the calculations.

In the July 1, 2015 actuarial valuation, actuarial liabilities were determined using the projected unit credit method. The assumptions included a 7% investment return, which is based on the expected yield on the assets of the District.

NOTE 9 - COMMITMENTS AND CONTINGENCIES

The District has entered into certain contracts for infrastructure upgrades, water main installations, improvements to existing water lines, improvements to water quality, purchases of vehicles and other similar projects.

NOTE 10 – PENSION PLAN

Plan Description – The District contributes to the Middlesex County Retirement System (MCRS) (“the System”), a cost-sharing multiple-employer defined benefit pension plan administered by the Middlesex Retirement Board (“the Board”). Substantially all employees are members of the System. The System provides retirement, disability and death benefits to plan members and beneficiaries. Chapter 32 of the Commonwealth of Massachusetts General Laws assigns authority to establish and amend benefit provisions of the plan. Cost-of-living adjustments granted between 1981 and 1997 and any increase in other benefits imposed by the Commonwealth’s state law adjustments granted after 1997 must be approved by the Board and are borne by the System. The System issued an audited financial statement for the year ended December 31, 2016. That report may be obtained by contacting the System at 25 Linnell Circle, Billerica, MA 01821.

Funding Policy – Plan members are required to contribute to the System at rates ranging from 5% to 11% of gross regular compensation. The District is required to pay into the System its share of the system-wide actuarially determined contribution that is apportioned among the employers based on active current payroll. The contributions of plan members and the District are governed by Chapter 32 of the Commonwealth of Massachusetts General Laws. The District’s required contribution to the System for the year ended June 30, 2017 was \$199,317. In addition to the required contribution, the District made a voluntary contribution of \$500,000 during the fiscal year ended June 30, 2017.

At June 30, 2017, the District reported a liability of \$1,165,154 for its proportional share of the net pension liability. The total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of January 1, 2016. The District’s proportionate share of the net pension liability was based on a projection of the District’s long-term share of contributions to the pension plan relative to the projected contributions of all participating members. At December 31, 2016, the District’s proportionate share was 0.082234%.

CHELMSFORD WATER DISTRICT
Notes to the Basic Financial Statements
June 30, 2017

NOTE 10 – PENSION PLAN - continued

For the year ended June 30, 2017, the District recognized pension expense of \$43,282 in addition to its required contribution of \$199,317. At June 30, 2017, the District reported the following deferred outflows and inflows of resources related to pensions:

Deferred Outflows of Resources– differences between expected and actual experience	\$5,247
Deferred Outflows of Resources– net difference between projected and actual investment earnings on pension plan investments	48,375
Deferred Outflows of Resources- changes of assumptions	63,485
Deferred Outflows of Resources– changes proportion and differences between employer contributions and proportionate share of contributions	1,135,948
Deferred Inflows of Resources– changes proportion and differences between employer contributions and proportionate share of contributions	(737,955)
Net Deferred Outflows and Inflows of Resources	\$515,100

The deferred outflows and inflows of resources related to pensions will be recognized in pension expense as follows:

Year ending June 30,	
2018	\$146,437
2019	146,437
2020	145,602
2021	76,624
Total	\$515,100

Actuarial Assumptions – The total pension liability in the January 1, 2016 actuarial valuation was determined using the following actuarial assumptions, applied to all periods included in the measurement updated to December 31, 2016:

Valuation date	January 1, 2016
Actuarial cost method	Entry Age Normal Cost Method
Amortization method	Prior year's total contribution increased by 6.5% for fiscal 2018 through fiscal 2024, and thereafter the remaining unfunded liability will be amortized on a 4.0% annual increasing basis; Early Retirement Incentive (ERI) liability amortized in level payments.
Remaining amortization period	As of July 1, 2016, four years remained for 2003 ERI liability, and 19 years remained for remaining unfunded liability.
Asset valuation method	The difference between the expected return and the actual investment return on a market value basis is recognized over a five-year period. Asset value is adjusted as necessary to be within 20% of the market value.
Inflation rate	3.5%
Projected salary increases	Varies by length of service with ultimate rate of 4.25% for Group 1.
Cost of living adjustments	3.00% of first \$14,000 of retirement income.
Rates of retirement	Varies based upon age for general employees.
Rates of disability	It is assumed that 45% of all disabilities are ordinary, and 55% of all disabilities are service connected.
Mortality rate pre-retirement	RP-2000 Employee Mortality Table projected generationally from 2009 with Scale BB2D.
Mortality rate post-retirement	RP-2000 Employee Mortality Table projected generationally from 2009 with Scale BB2D.
Mortality rate disabled retiree	RP-2000 Healthy Annuitant Mortality Table projected generationally from 2015 with Scale BB2D.
Investment rate of return/ Discount rate	7.75%, net of pension plan investment expense, including inflation. This was previously 7.875%.

CHELMSFORD WATER DISTRICT
Notes to the Basic Financial Statements
June 30, 2017

NOTE 10 – PENSION PLAN - continued

Investment policy – The pension plan’s policy in regard to the allocation of invested assets is established by Pension Reserve Investment Trust. Plan assets are managed on a total return basis with long-term objective of achieving a fully funded status for the benefits provided through the pension plan. The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plan’s target asset allocation as of January 1, 2016 are summarized in the following table:

Asset Class	Long Term Expected Real Rate of Return	Long Term Expected Asset Allocation
Domestic equity	7.50%	19.50%
International equity	7.83%	16.80%
Emerging markets equity	9.61%	6.90%
Core fixed income	3.75%	12.30%
Value-added fixed income	7.26%	8.30%
Private equity	9.50%	11.10%
Real estate	6.50%	10.00%
Timber/natural resources	6.00%	3.60%
Hedge funds and other investments	6.48%	11.5%
		100.00%

Discount rate – The discount rate used to measure the total pension liability was 7.75%. The projection of cash flows used to determine the discount rate assumed plan member contributions will be made at the current contribution rate and that contributions will be made at rates equal to the actuarially determined contributions rate. Based on those assumptions, the pension plan’s fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the net pension liability to changes in the discount rate – The following presents the net pension liability as of June 30, 2017, calculated using the discount rate of 7.75%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1% lower (6.75%) or 1% higher (8.75%) than the current rate:

	1% Decrease to 6.75%	Current Discount 7.75%	1% Increase to 8.75%
The District’s proportionate share of the net pension liability	\$1,407,030	\$1,165,154	\$960,737

Pension plan fiduciary net position – Detailed information about the pension plan’s fiduciary net position is available in the separately issued Middlesex County Retirement System financial report.

CONCLUDED.

CHELMSFORD WATER DISTRICT**Required Supplemental Information and Notes to Required Supplemental Information - June 30, 2017****OTHER POST-EMPLOYMENT BENEFITS**

SCHEDULE OF FUNDING PROGRESS			
Actuarial valuation date	7/1/15	7/1/12	7/1/09
Actuarial value of assets	\$577,869	0	0
Actuarial accrued liability (AAL)	\$728,241	\$1,456,649	\$2,936,775
Unfunded AAL (UAAL)	\$150,372	\$1,456,649	\$2,936,775
Funded ratio	79%	0%	0%
Covered payroll	\$1,255,467	\$1,251,443	\$1,223,887
UAAL as a percentage of covered payroll	12%	116%	240%
ACTUARIAL METHODS			
Actuarial cost method	Projected Unit Credit	Projected Unit Credit	Projected Unit Credit
Amortization method	Level Dollar	Level Dollar	Level Dollar
Remaining amortization period	30 years	30 years	30 years
ACTUARIAL ASSUMPTIONS			
Investment rate of return	7%	4%	3%
Health care trend rate	3.2% - 3.5% constant for all years	5.42%-7.9%, graded to 5% over 10 years	9.5% or 10%, graded to 5% over 10 years

Year Ended	EMPLOYER CONTRIBUTIONS			PLAN MEMBERSHIP		
	Annual Required Contributions (ARC)	Actual Contributions Made	Percentage Contributed	Current retirees, beneficiaries & dependents	Current active members	Total Members
6/30/17	\$35,926	\$187,681	522%	17	21	38
6/30/16	\$35,926	\$187,681	522%	17	21	38
6/30/15	\$160,103	\$200,606	125%	17	21	38
6/30/14	\$160,103	\$350,606	219%	17	19	36
6/30/13	\$160,103	\$50,606	34%	17	18	35
6/30/12	\$285,098	\$53,333	19%	17	19	36
6/30/11	\$285,098	\$53,333	19%	17	20	37
6/30/10	\$285,098	\$53,333	19%	17	21	38

NOTE A - OTHER POST-EMPLOYMENT BENEFITS

The District administers a defined benefit healthcare plan that provides lifetime healthcare insurance for eligible retirees and their spouses through the Town of Chelmsford's health insurance plan, which covers both active and retired members. The District currently finances its other post-employment benefits (OPEB) on a "pay-as-you-go" basis. As a result, the funded ratio (actuarial value of assets expressed as a percentage of the actuarial accrued liability) is 79%. In accordance with Governmental Accounting Standards Board Statement 45 (GASB 45), the District has recorded its OPEB cost equal to the actuarial determined annual required contribution (ARC) which includes the normal cost of providing benefits for the year and a component for the amortization of the total unfunded actuarial accrued liability of the plan.

The Schedule of Funding Progress presents multi-year trend information which compares, over time, the actuarial accrued liability for benefits with the actuarial value of accumulated plan assets. Since 2010 was the District's initial year of implementation of GASB 45, information for years prior to 2010 is not available. Projections of benefits for financial reporting purposes are based on the substantive plan and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and plan members to that point. The actuarial methods and assumptions used include techniques that are designed to reduce the effects of short term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long term perspective of the calculations.

CHELMSFORD WATER DISTRICT**Required Supplemental Information and Notes to Required Supplemental Information - June 30, 2017****PENSION PLAN SCHEDULES**

SCHEDULE OF THE DISTRICT'S PROPORTIONATE SHARE OF THE NET PENSION LIABILITY OF MIDDLESEX COUNTY RETIREMENT (MCRS)	Year Ended 12/31/16	Year Ended 12/31/15	Year Ended 12/31/14
District's proportion of the MCRS Net Pension Liability	\$1,165,154	\$1,402,613	\$2,106,325
District's percentage share of the MCRS Net Pension Liability	0.082234%	0.108728%	0.175335%
District's covered employee payroll	\$1,282,932	\$1,222,528	\$1,175,508
District's Net Pension Liability as a % of its covered payroll	90.82%	114.73%	179.18%
MCRS fiduciary net position as % of its total pension liability	45.49%	46.13%	47.65%

SCHEDULE OF THE DISTRICT'S CONTRIBUTIONS TO THE MIDDLESEX COUNTY RETIREMENT SYSTEM	Year Ended 6/30/17	Year Ended 6/30/16	Year Ended 6/30/15
Date of actuarial valuation	1/1/2016	1/1/2015	1/1/2014
Actuarially determined contribution	\$199,317	\$186,049	\$243,247
Contributions made	\$699,317	\$1,186,049	\$743,247
Contribution deficiency (excess)	(\$500,000)	(\$1,000,000)	(\$500,000)
Covered employee payroll	\$1,282,932	\$1,222,528	\$1,175,508
Contributions as a percentage of covered employee payroll	54.51%	97.01%	63.23%

The two schedules above are intended to present information for ten years. Until a ten year period is available, information is presented for those years for which information is available.

See notes to required supplementary information

NOTE A – PENSION PLAN – CHANGES IN ASSUMPTIONS AND PLAN PROVISIONS

The following changes in Assumptions and Methods were effective January 1, 2014:

- The actuarial cost method was changed to better reflect the impact of the plan changes effective for employees hired on or after April 2, 2012.
- The pre-retirement mortality assumption was changed from the RP-2000 Employee Mortality Table projected 12 years with Scale AA to the RP-2000 Employee Mortality Table projected 22 years with Scale AA.
- The mortality assumption for non-disabled retirees was changed from the RP-2000 Healthy Annuitant Mortality Table projected 12 years with Scale AA to the RP-2000 Healthy Annuitant Mortality Table projected 17 years with Scale AA.
- The mortality assumption for disabled participants was changed from the RP-2000 Healthy Annuitant Mortality Table set forward two years to the RP-2000 Healthy Annuitant Mortality Table set forward three years projected 17 years with Scale AA.
- The investment return assumption was lowered from 8.00% to 7.875%.
- The salary increase assumption was changed from level rates of 4.75% per year for Group 1 and Group 2 members and 5.25% per year for Group 4 members, including an allowance for inflation of 4.5% per year, to rates based on years of service and ultimate rates of 4.25% per year for Group 1 members, 4.5% per year for Group 2 members, and 4.75% per year for Group 4 members, including an allowance for inflation of 4.0% per year.
- The assumed retirement age for inactive vested participants was changed from age 65 to age 60 for Group 1 and 2 members and remained the same at age 55 for Group 4 members hired prior to April 2, 2012. For participants hired April 2, 2012 or later, the assumption is 60 for Group 1 members, 55 for Group 2 members and 50 for Group 4 members.
- The administrative expense assumption was increased from \$3,100,000 for calendar year 2012 to \$3,400,000 for calendar year 2014.

The following changes in Assumptions and Methods were effective January 1, 2016:

- The pre-retirement mortality assumption was changed from the RP-2000 Employee Mortality Table projected 22 years with Scale AA to the RP-2000 Employee Mortality Table projected generationally from 2009 with Scale BB2D.
- The mortality assumption for non-disabled retirees was changed from the RP-2000 Healthy Annuitant Mortality Table projected 17 years with Scale AA to RP-2000 Employee Mortality Table projected generationally from 2009 with Scale BB2D.
- The mortality assumption for disabled participants was changed from the RP-2000 Healthy Annuitant Mortality Table set forward three years projected 17 years with Scale AA to the RP-2000 Healthy Annuitant Mortality Table projected generationally from 2015 with Scale BB2D.
- The investment return assumption was lowered from 7.875% to 7.75%.
- The inflation allowance in the salary increase assumption was lowered from 4.0% to 3.5%.
- The administrative expense assumption was increased from \$3,400,000 for calendar 2014 to \$3,500,000 for calendar 2016.

The following change in Plan Provisions was reflected in the January 1, 2014 actuarial valuation:

- Members hired on or after April 2, 2012 are covered by the provisions of Massachusetts General Law Chapter 32 as amended by Chapter 176 of the Acts of 2011 and Chapter 139 of the Acts of 2012.

The following change in Plan Provisions was reflected in the January 1, 2016 actuarial valuation:

- As permitted by Section 63 of Chapter 139 of the Acts of 2012, the Board has increased the Section 101 annual allowance from \$9,000 to \$12,000.

CHELMSFORD WATER DISTRICT					Page 21
Supplemental Schedule of Governmental Fund Balance - Capital Projects Activity					
For the Year Ended June 30, 2017					
		Transfers	Transfers		
	Beginning	Within	from General	Payments	Ending
	Balance	Cap Projects	Fund	(Made)	Balance
4 Wheel Drive Truck 17	\$0		\$50,000		\$50,000
6 Wheel Dump Truck 17	0		140,000		140,000
Arrowhead Loop to Sleigh Rd 16	435,000	(\$165,000)		(\$269,305)	695
Barnes Terrace/Cranberry Bog	100				100
Chlorination Building 16	100,000				100,000
Excavator	3,922	(3,922)			0
Fork Lift 16	24,000	(1,886)		(22,114)	0
Frac Tank Trailer 15	64,112			(120)	63,992
Front End Loader 16	225,000	(12,603)		(212,397)	0
Garage	10,580			(810)	9,770
Infrastructure Upgrade 15/16	204,838			(24,721)	180,117
Meadowbrook 1 Generator 16	100,000			(59,801)	40,199
Meadowbrook/Doral Main Loop	15,208	(15,208)			0
Media Replacement CSTP 17	0		275,000		275,000
Mill Rd Well 2 Rehab 16	140,000			(14,405)	125,595
Office Building Rehab 16/17	33,831	15,208	275,000	(8,986)	315,053
Pump Station Building Rehab 15/16	14,452				14,452
Security System Upgrades	20,766				20,766
Smith St Treatment Plant	116,145			(89,440)	26,705
Storage Tanks Pump Stations Wells Access	126,166	18,411		(3,174)	141,403
Summit and Amble Storage Tanks 17	0		50,000		50,000
Turnpike Rd Storage Tank 17	0		350,000		350,000
Turnpike Well Upgrade	101,312			(56,667)	44,645
Vac Truck 15	290,000	100,000			390,000
Wiggins Woodlawn Mains 17	0	65,000	300,000		365,000
Totals	\$2,025,432	\$0	\$1,440,000	(\$761,940)	\$2,703,492