



Town of Natick

FY 2017 Preliminary Budget

Section X: Water/Sewer Enterprise Fund

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Town of Natick

FY 2017 Preliminary Budget

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Town of Natick

Home of Champions

Department: Water & Sewer **Enterprise Fund**

Appropriation Summary

Water & Sewer Operations

	2014 Actual	2015 Actual	2016 Appropriated	2017 Preliminary	2016 vs. 2017	
					\$ (+/-)	% (+/-)
Total Salaries	1,574,537	1,673,657	1,858,308	1,878,441	20,133	1.08%
Total Operating Expenses	6,111,897	6,663,911	6,932,896	7,152,446	219,551	3.17%
Total Water & Sewer Operations	7,686,434	8,337,568	8,791,204	9,030,887	239,684	2.73%

Utility Billing Operations

	2014 Actual	2015 Actual	2016 Appropriated	2017 Preliminary	2016 vs. 2017	
					\$ (+/-)	% (+/-)
Total Salaries	81,134	100,662	105,793	112,214	6,421	6.07%
Total Operating Expenses	37,992	83,152	83,000	89,000	6,000	7.23%
Total Utility Billing Operations	119,126	183,814	188,793	201,214	12,421	6.58%

Employee Benefits

	2014 Actual	2015 Actual	2016 Appropriated	2017 Preliminary	2016 vs. 2017	
					\$ (+/-)	% (+/-)
Total Employee Benefits	650,033	723,751	791,486	748,986	(42,500)	-5.37%

Debt Service

	2014 Actual	2015 Actual	2016 Appropriated	2017 Preliminary	2016 vs. 2017	
					\$ (+/-)	% (+/-)
Debt Service						
Principal	1,613,869	1,884,424	1,998,403	1,996,150	(2,253)	-0.11%
Interest	431,571	446,491	464,326	394,638	(69,688)	-15.01%
Total Debt Service	2,045,440	2,330,915	2,462,729	2,390,788	(71,941)	-2.92%
Total Debt Service	2,045,440	2,330,915	2,462,729	2,390,788	(71,941)	-2.92%

Reserves

	2014 Actual	2015 Actual	2016 Appropriated	2017 Preliminary	2016 vs. 2017	
					\$ (+/-)	% (+/-)
Total Reserve Fund	-	-	200,000	200,000	-	0.00%
Total Reserve Fund	-	-	200,000	200,000	-	0.00%

Total Water & Sewer Enterprise Fund **10,501,033** **11,576,048** **12,434,212** **12,571,875** **137,663** **1.11%**

Indirects **2,323,579** **2,207,400** **2,207,400** **2,218,150** **10,750** **0.49%**



Town of Natick

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Department: Water & Sewer

Enterprise Fund

Mission:

Water & Sewer Operations:

The mission of the Natick Department of Public Works is to maintain and improve in a cost-efficient manner the infrastructure, vehicles, equipment, and facilities of the town's water and sewer system and be ready and available to provide immediate and professional response to emergency situations.

The Department will provide safe and adequate drinking water and water for fire protection by maintaining and improving the water treatment plant, supply wells, and water mains throughout town. The Department will also provide safe and sanitary collection and disposal of wastewater by maintaining and improving sewer pump stations, force mains, and gravity sewer mains.

The Department will assist, support and cooperate with other Town departments, boards and commissions as well as other municipalities, State and Federal agencies in all relevant activities that promote and benefit the Town and the quality of life for the citizens of the Town.

Utility Billing Operations:

The Utility Billing office is responsible for the billing and collecting of Water and Sewer activity. This includes uploading the usage files received from DPW on a monthly basis, recording the receivable due to the Town of Natick, printing and mailing of water/sewer invoices, and posting water/sewer cash receipts. Also process abatements, corrections, final billing for real estate sales and special billings for backflows, valve work, etc, and maintain the senior citizen account designations with the Assessor's Office. Finally, this division is also responsible for answering customer inquiries and conduct problem research.

Goals:

Water & Sewer Operations:

- *Replace water/sewer services prior to roadway improvement projects*
- *Replace aging and substandard (2" diameter) water mains*
- *Update Asset Management Plan*
- *Maintain sewer pump stations and mains to prevent backups and overflows*
- *Repair water main breaks in a timely fashion*
- *Provide quality potable water for consumption and fire protection*
- *Continue to replace outdated water meter transmitters.*
- *Replace the Eliot Hill Sewer Pump Station*
- *Continue to implement work order management software*
- *Update SCADA equipment*

Utility Billing Operations:

Personnel Advancement

- *Continue to work on customer service/team building.*
- *Reconfigure Collector's Office personnel to facilitate better service.*

Enhance On-line, Web, Computer Applications

- *Work with DPW to add on-line Geographic Information System (GIS) capabilities; create Executive Committee to enhance usability throughout organization .*
- *With DPW, consider alternatives to water billing/accounts receivable systems.*
- *Institute a lock box system that will enhance the posting of deposits.*



Town of Natick

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Department: Water & Sewer

Enterprise Fund

Budget Overview:

The Water & Sewer Enterprise Fund has three divisions within it: Sanitary Sewer, Water, and Utility Billing.

Department of Public Works Sewer Division

I. Main Purpose of the Division

The Sewer Division operates and maintains over 147 miles of the sewer collection system and seeks to meet or exceed all federal and state mandates and guidelines governing the sewer collection system. The Division monitors the Town's thirty-four sewer pump stations seven days a week. Personnel from this division are on call twenty four hours a day, seven days a week to respond to any sewer emergency.

II. Recent Developments

- Continuation of the sewer main relining program, pipeline video inspections, point repairs
- Upgrade and repair sewer pump stations
- Interim emergency repairs to 4m (Route 9) Sewer Force Main

III. Current Challenges

- Implementation of the Infiltration and Inflow (I/I) study of the Town's sewer system
- Maintain program to alleviate chronic sewer back up areas
- Monitoring sulfides in the sewer system to prevent premature deterioration of collection piping and equipment
- Repair/replacement of aging and failing sewer chimney services

IV. Significant Proposed Changes for the Upcoming Fiscal Year and the Budget Impact

- Continue to fund the Sewer Pump Station/Line Maintenance to maintain the sewer main and pump stations and to continue the Degreasing Program
- Update asset management plan for sewer infrastructure
- Implement capital projects to repair/replace aging and substandard infrastructure

V. On the Horizon

- Continual maintenance of an aging infrastructure and increased volume of capital projects Installation of new
- Bradford Road sewer force main
- Rehabilitation of Travis Road and Eliot Hill Sewer Pump Stations
- Route 9 / Route 27 Infrastructure Improvement Project
- 4M Sewer Force main replacement project (Route 9)

Department of Public Works Water Division

I. Main Purpose of the Division

The Water Division operates and maintains the Town's water supply wells, water treatment plant, and water distribution system. It provides safe and potable drinking water through 196 miles of distribution mains within Town. The Division is responsible for water meter calibration, quarterly reading over 13,000 meters, and the installation, inspection and testing of backflow prevention devices. In addition, the Division is responsible for water quality testing on a daily basis, the testing and maintenance of 1,400 fire hydrants, the repair of water leaks, maintain compliance with state and federal drinking water requirements, and maintain sufficient supply for fire protection. Personnel from this Division are on-call twenty four hours a day, seven days a week to respond to any water emergency.

II. Recent Developments

- Completion of Backflow Prevention Program
- Annual water leak detection program to reduce unaccounted for water.
- Replacement of residential water services on various streets before street rehabilitation. (116 total services replaced on the following streets: Oak Knoll, Hammond Rd, Travis Rd, Peterson Rd, Pleasant St)
- Conducted twice yearly uni-directional flushing program

III. Current Challenges

- Update of ISO 14001 Certification for the Springvale Water Treatment Plant
- Update SCADA equipment
- Replacement of Springvale #4 & Morses Pond Well
- Water Management Act permit implementation
- Increase in backflow prevention device testing and inspections



Town of Natick

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Department: Water & Sewer

Enterprise Fund

Budget Overview:

Department of Public Works Water Division (con't)

IV. Significant Proposed Changes for the Upcoming Fiscal Year and the Budget Impact

- Implement new pump preventive maintenance schedule
- Implement new state and federal requirements
- Update asset management plan for water infrastructure
- Implement capital projects to repair/replace aging and substandard infrastructure

V. On the Horizon

- Continue the improvement and efficiency of the water system
- Update outdated automation equipment
- Water Distribution system maintenance and upkeep
- East and West Central Street Water Main Replacement Projects
- Route 9 / Route 27 Infrastructure Improvement Project

Utility Billing Division

I. Main Purpose of the Division

The primary responsibility of the Division is the quarterly billing of 13,000 water and sewer accounts. These duties include preparation of quarterly invoices, dispute resolution with rate payers, special fee invoicing, etc. This Division is responsible for the certification of delinquent accounts to the Board of Assessors for inclusion as water and sewer liens transferred to real estate bills.

II. Recent Developments

Implemented online payment of Water & Sewer bills

III. Current Challenges

The format and content of information included with the water and sewer bill is being evaluated for clarity. The goal is to improve the information provided to ratepayers.

IV. Significant Proposed Changes for the Upcoming Fiscal Year and Budget Impact

The budget request for FY2017 continues to include funding for improved notification to delinquent accounts, notification to subsequent/new property owners, and additional research/resolution for returned mail.

V. On the Horizon

None.



Town of Natick

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Department: Water & Sewer Operations	Enterprise Fund
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Staffing	2013	2014	2015	2016	2017
Water & Sewer Operations					
Water & Sewer Division Supervisor	1	1	1	1	1
Water & Sewer General Foreman	1	1	1	1	1
Regulatory Compliance Coordinator	0	0	1	1	1
Administrative Assistant	1	1	1	1	1
Working Foreman	4	4	4	4	4
Heavy Equipment Operator	3	3	3	3	3
Skilled Laborer	5	5	5	5	5
Craftsman	3	3	3	3	3
Water Distribution Assistant Supervisor	1	1	1	1	1
Water Operations/ GIS Manager	1	1	1	1	1
Chief Plant Operator	1	1	1	1	1
Night Operator	1	1	1	1	1
Station Operator	4	4	4	4	4
Utility Billing					
Executive Assistant	1	1	1	1	1
Administrative Assistant	1	1	1	1	1
Department Support	0.1	0.1	0.1	0.1	0.1
Total FTE	28.1	28.1	29.1	29.1	29.1
Total FT/PT	28 FT / 1 PT	28 FT / 1 PT	29 FT / 1PT	29 FT / 1 PT	29 FT / 1 PT

Notes

Utility Billing Notes:

Departmental Support person:
works 960 hours total
720 hours allocated to collections
240 hours allocated to utility billing

Performance Indicators	2013	2014	FY2015	FY2016*	FY2017*
Workload Indicators					
Water & Sewer Operations					
Number of Water Leaks/Repairs	28	25	60	25	25
Number of Sewer Backups	11	9	12	9	9
Total Number of Hydrants Replaced/ Repaired	4	15	14	15	15
Total Mileage of Water & Sewer Pipes	200/150	200/150	200/150	200/150	200/150
Number of Sewer Main lines Lined (in feet)	0	2000	4600	2000	2000
Water Pumped (in Millions of Gallons)	1,155	1,180	1,230	1,180	1,180
Water Services (Main to Stop) replaced			116	75	75
	2013	2014	2015	2016*	2016*

Outcome Indicators

Water & Sewer Operations	2013	2014	2015	2016*	2016*
# of Sewer Backups causing Insurance Claims(CY)	2	4		4	4

*Estimated

Utility Billing
See Treasurer's Budget (Section VII) for performance indicators related to utility billing.



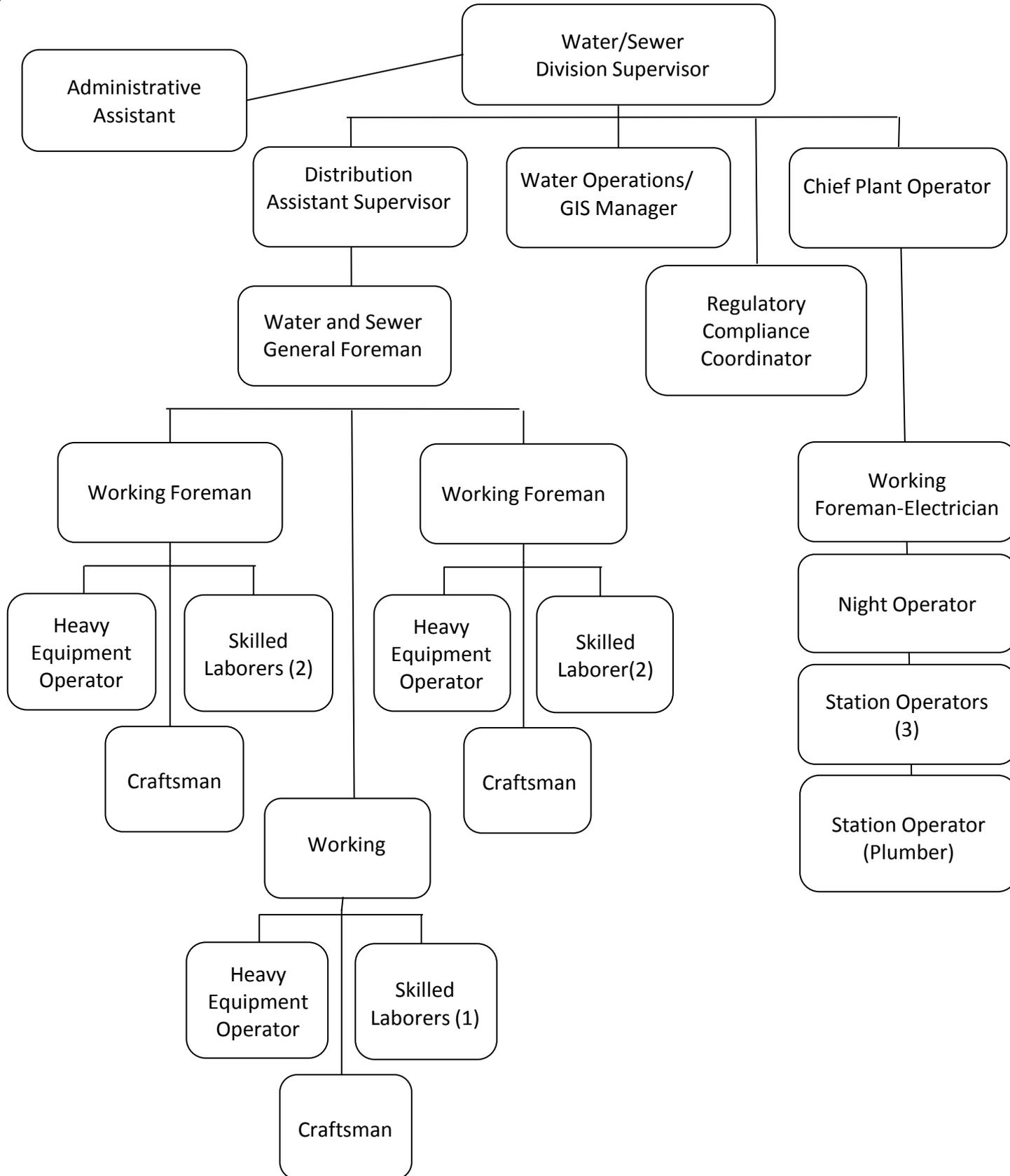
Town of Natick

Home of Champions

Department: Water & Sewer Operations

Enterprise Fund

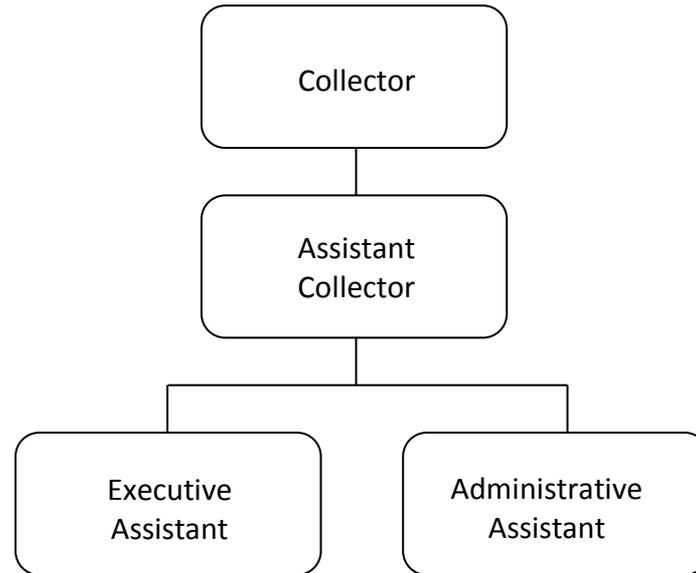
Organizational Chart



Note: Water & Sewer Divisions are under the management of the Director of Public Works



Organizational Chart: Utility Billing Operations



Note: Utility Billing Division is under the management of the Treasurer/Collector.



Town of Natick

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Department: Water & Sewer

Enterprise Fund

Sewer Operations

	2014 Actual	2015 Actual	2016 Appropriated	2017 Preliminary	2016 vs. 2017 \$ (+/-) % (+/-)	
Salaries Supervisory	\$ 91,507	\$ 172,602	\$ 175,805	\$ 175,134	\$ (671)	-0.38%
Salaries Operational Staff	\$ 350,704	\$ 356,467	\$ 457,532	\$ 437,419	\$ (20,113)	-4.40%
Salaries Part-time Operational/Police Details	\$ 7,512	\$ 21,406	\$ 30,150	\$ 30,068	\$ (82)	-0.27%
Supervisory Additional Comp	\$ 7,800	\$ 15,600	\$ 16,600	\$ 16,600	\$ -	0.00%
Operational Staff Additional Comp	\$ 15,938	\$ 14,388	\$ 17,030	\$ 16,450	\$ (580)	-3.41%
Operational Staff Overtime	\$ 60,536	\$ 61,330	\$ 57,850	\$ 61,000	\$ 3,150	5.45%
Contract Settlements/Merit Increases	\$ -	\$ -	\$ -	\$ 13,471	\$ 13,471	#DIV/0!
Personnel Services	\$ 533,997	\$ 641,793	\$ 754,967	\$ 750,142	\$ (4,825)	-0.64%
Repairs & Maint. Equipment	\$ 2,923	\$ 2,933	\$ 3,000	\$ 3,000	\$ -	0.00%
Repairs & Maint. Other	\$ 2,882	\$ 2,884	\$ 3,000	\$ 3,000	\$ -	0.00%
Utilities Electric	\$ 86,659	\$ 75,091	\$ 90,850	\$ 99,695	\$ 8,845	9.74%
Purchase of Services	\$ 92,464	\$ 80,908	\$ 96,850	\$ 105,695	\$ 8,845	9.13%
Licenses - CDL & Special	\$ 747	\$ 679	\$ 2,000	\$ 2,000	\$ -	0.00%
Clothing Allowance Operational Staff	\$ 2,450	\$ 2,450	\$ 3,150	\$ 3,150	\$ -	0.00%
Other Services Inc.	\$ 3,197	\$ 3,129	\$ 5,150	\$ 5,150	\$ -	0.00%
Tech & Prof Svs & MWRA Sulfide Testing	\$ 4,939	\$ 6,829	\$ 15,000	\$ 15,000	\$ -	0.00%
Tech/ Prof. Services	\$ 4,939	\$ 6,829	\$ 15,000	\$ 15,000	\$ -	0.00%
Repairs & Maint. Misc. Constr.	\$ 4,549	\$ 3,608	\$ 4,000	\$ 4,000	\$ -	0.00%
Supplies	\$ 4,549	\$ 3,608	\$ 4,000	\$ 4,000	\$ -	0.00%
Sewer Pump Station/Line Maintenance	\$ 102,849	\$ 259,208	\$ 100,000	\$ 125,000	\$ 25,000	25.00%
MWRA Sewer Assessment	\$ 4,903,457	\$ 5,330,710	\$ 5,597,246	\$ 5,709,000	\$ 111,754	2.00%
Water/Sewer Damage Claims	\$ -	\$ -	\$ 15,000	\$ 15,000	\$ -	0.00%
Other Chgs. / Exp.	\$ 5,006,306	\$ 5,589,918	\$ 5,712,246	\$ 5,849,000	\$ 136,754	2.39%
Total Operating Expenses	\$ 5,645,452	\$ 6,326,185	\$ 6,588,213	\$ 6,728,987	\$ 140,774	2.14%

Water Operations

	2014 Actual	2015 Actual	2016 Appropriated	2017 Preliminary	2016 vs. 2017 \$ (+/-) % (+/-)	
Salaries Supervisory	\$ 267,230	\$ 197,396	\$ 198,081	\$ 197,325	\$ (756)	-0.38%
Salaries Operational Staff	\$ 602,039	\$ 644,938	\$ 764,123	\$ 756,540	\$ (7,583)	-0.99%
Salaries Temp Operational	\$ 16,502	\$ 28,378	\$ 25,957	\$ 25,957	\$ -	0.00%
Supervisory Additional Comp	\$ 25,775	\$ 18,100	\$ 18,100	\$ 18,100	\$ -	0.00%
Operational Staff Additional Comp	\$ 27,516	\$ 28,886	\$ 24,580	\$ 24,600	\$ 20	0.08%
Operational Staff Overtime	\$ 101,478	\$ 114,166	\$ 72,500	\$ 85,000	\$ 12,500	17.24%
Contract Settlements/Merit Increases	\$ -	\$ -	\$ -	\$ 20,777	\$ 20,777	#DIV/0!
Personnel Services	\$ 1,040,540	\$ 1,031,864	\$ 1,103,341	\$ 1,128,299	\$ 24,958	2.26%
Repairs & Maint. Software	\$ 19,929	\$ 15,278	\$ 15,000	\$ 15,000	\$ -	0.00%
Utilities	\$ 470,397	\$ 466,179	\$ 494,600	\$ 563,051	\$ 68,451	13.84%
GIS Software & Training	\$ 22,832	\$ 21,959	\$ 25,500	\$ 25,500	\$ -	0.00%
Copy/Mail Center Fees	\$ 9,391	\$ 11,976	\$ 11,000	\$ 11,000	\$ -	0.00%
Purchased Services: Miscellaneous	\$ 11,969	\$ 12,334	\$ 12,000	\$ 12,000	\$ -	0.00%
Purchase of Services	\$ 534,518	\$ 527,726	\$ 558,100	\$ 626,551	\$ 68,451	12.27%
Licenses - CDL & Special	\$ 7,570	\$ 8,013	\$ 8,500	\$ 8,500	\$ -	0.00%
Environmental Management - ISO 14001 Certification	\$ 4,056	\$ 6,933	\$ 4,000	\$ 4,000	\$ -	0.00%
Clothing Allowance Operational Staff	\$ 3,850	\$ 3,850	\$ 4,550	\$ 4,550	\$ -	0.00%
Other Services Inc.	\$ 15,476	\$ 18,796	\$ 17,050	\$ 17,050	\$ -	0.00%
Implement SDWA Amendment	\$ 27,318	\$ 31,296	\$ 30,000	\$ 30,000	\$ -	0.00%
Water Testing	\$ 24,729	\$ 21,876	\$ 25,000	\$ 25,000	\$ -	0.00%
Tech./Prof. Services	\$ 52,047	\$ 53,172	\$ 55,000	\$ 55,000	\$ -	0.00%



Town of Natick

Home of Champions

Department: Water & Sewer	Enterprise Fund
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Repairs & Maint - Equipment	\$ 2,942	\$ 14,490	\$ 3,000	\$ 3,000	\$ -	0.00%
Repairs & Maint - Facilities	\$ 1,945	\$ 1,746	\$ 2,000	\$ 2,500	\$ 500	25.00%
Repairs & Maint - Hydrants	\$ 8,207	\$ 9,801	\$ 10,000	\$ 10,000	\$ -	0.00%
Repairs & Maint - Misc. Repairs	\$ 17,529	\$ 18,641	\$ 18,000	\$ 20,000	\$ 2,000	11.11%
Repairs & Maint - Misc. Constr	\$ 19,631	\$ 17,971	\$ 18,000	\$ 20,000	\$ 2,000	11.11%
Supplies	\$ 50,254	\$ 62,649	\$ 51,000	\$ 55,500	\$ 4,500	8.82%

Chemical Supplies	\$ 111,309	\$ 88,268	\$ 177,500	\$ 174,000	\$ (3,500)	-1.97%
Obsolete Meters	\$ 36,918	\$ 27,282	\$ 30,000	\$ 30,000	\$ -	0.00%
Service Connections	\$ 18,713	\$ 17,423	\$ 18,000	\$ 20,000	\$ 2,000	11.11%
Other Supplies	\$ 166,940	\$ 132,973	\$ 225,500	\$ 224,000	\$ (1,500)	-0.67%

Water Well/Water Line Maint.	\$ 144,632	\$ 147,650	\$ 150,000	\$ 150,000	\$ -	0.00%
New Hydrant Installation	\$ 11,101	\$ 9,975	\$ 10,000	\$ 10,000	\$ -	0.00%
Asphalt Crushing	\$ 13,770	\$ 14,802	\$ 15,000	\$ 20,000	\$ 5,000	33.33%
DEP Assessment	\$ 9,922	\$ 9,994	\$ 14,000	\$ 12,000	\$ (2,000)	-14.29%
MWRA Discharge Permit	\$ 1,782	\$ 1,782	\$ 4,000	\$ 3,500	\$ (500)	-12.50%
Other Charges/Expenditures	\$ 181,207	\$ 184,203	\$ 193,000	\$ 195,500	\$ 2,500	1.30%

Total Operating Expenses	\$ 2,040,982	\$ 2,011,383	\$ 2,202,991	\$ 2,301,900	\$ 98,909	4.49%
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Utility Billing

	2014 Actual	2015 Actual	2016 Appropriated	2017 Preliminary	2016 vs. 2017 \$ (+/-) % (+/-)	
Salaries Operational Staff	\$ 77,759	\$ 95,842	\$ 98,178	\$ 105,273	\$ 7,095	7.23%
Part-Time Operational Staff	\$ 721	\$ 3,690	\$ 4,835	\$ 3,786	\$ (1,049)	-21.70%
Operational Staff - Additional Comp	\$ 1,500	\$ 750	\$ 750	\$ 1,125	\$ 375	50.00%
Operational Staff Overtime	\$ 1,154	\$ 380	\$ 2,030	\$ 2,030	\$ -	0.00%
Contract Settlements/Merit Increases	\$ -	\$ -	\$ -	\$ 2,146	\$ 2,146	#DIV/0!
Personnel Services	\$ 81,134	\$ 100,662	\$ 105,793	\$ 112,214	\$ 6,421	6.07%

Repair, Maint, Replace Equipment	\$ -	\$ -	\$ 500	\$ 500	\$ -	0.00%
Utility Billing Software	\$ -	\$ 15,000	\$ 15,000	\$ 15,000	\$ -	0.00%
Utility Billing Printing	\$ 3,923	\$ 7,885	\$ 12,000	\$ 10,000	\$ (2,000)	-16.67%
In State Travel/Meetings	\$ -	\$ -	\$ 500	\$ 500	\$ -	0.00%
Communication Telephone	\$ -	\$ -	\$ 1,500	\$ 1,500	\$ -	0.00%
Training & Education	\$ 60	\$ -	\$ 4,000	\$ 3,000	\$ (1,000)	-25.00%
Communication Postage	\$ 22,745	\$ 25,218	\$ 23,000	\$ 25,000	\$ 2,000	8.70%
Copy/Mail Center Fees	\$ 10,935	\$ 31,429	\$ 25,000	\$ 32,000	\$ 7,000	28.00%
Collection Activities	\$ -	\$ -	\$ 500	\$ 500	\$ -	0.00%
Office Supplies	\$ 329	\$ 3,620	\$ 1,000	\$ 1,000	\$ -	0.00%
Supplies	\$ 37,992	\$ 83,152	\$ 83,000	\$ 89,000	\$ 6,000	7.23%

Total Utility Billing	\$ 119,126	\$ 183,814	\$ 188,793	\$ 201,214	\$ 12,421	6.58%
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Town of Natick

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Department: Water & Sewer

Enterprise Fund

Employee Benefits

	2014 Actual	2015 Actual	2016 Appropriated	2017 Preliminary	2016 vs. 2017 \$ (+/-) % (+/-)	
FICA {Medicare}	\$ 22,969	\$ 23,864	\$ 28,453	\$ 28,865	\$ 412	1.45%
Insurance Group Health & Life	\$ 370,021	\$ 392,278	\$ 432,255	\$ 377,215	\$ (55,040)	-12.73%
LIUNA Pension	\$ 41,088	\$ 47,683	\$ 50,059	\$ 69,094	\$ 19,035	38.03%
Other Personnel Services	\$ 434,078	\$ 463,826	\$ 510,767	\$ 475,174	\$ (35,593)	-6.97%
Funding Schedule	\$ 215,955	\$ 259,925	\$ 280,719	\$ 273,812	\$ (6,907)	-2.46%
Other Charges & Expenditures	\$ 215,955	\$ 259,925	\$ 280,719	\$ 273,812	\$ (6,907)	-2.46%
Total Employee Benefits	\$ 650,033	\$ 723,751	\$ 791,486	\$ 748,986	\$ (42,500)	-5.37%

Water & Sewer Debt Service

	2014 Actual	2015 Actual	2016 Appropriated	2017 Preliminary	2016 vs. 2017 \$ (+/-) % (+/-)	
Water Principal Sub-Totals	\$ 1,089,023	\$ 1,172,438	\$ 1,203,444	\$ 1,207,191	\$ 3,747	0.31%
Sewer Principal Sub-Totals	\$ 524,846	\$ 711,986	\$ 794,959	\$ 788,959	\$ (6,000)	-0.75%
Principal Totals	\$ 1,613,869	\$ 1,884,424	\$ 1,998,403	\$ 1,996,150	\$ (2,253)	-0.11%
Interest on Debt Water Sub-Totals	\$ 265,171	\$ 279,029	\$ 258,702	\$ 209,247	\$ (49,455)	-19.12%
Interest on Debt Sewer Sub-Totals	\$ 154,487	\$ 165,562	\$ 175,624	\$ 155,391	\$ (20,233)	-11.52%
Bond Anticipation Notes	\$ 11,913	\$ 1,900	\$ 30,000	\$ 30,000	\$ -	0.00%
Interest Totals	\$ 431,571	\$ 446,491	\$ 464,326	\$ 394,638	\$ (69,688)	-15.01%
Total Water & Service Debt Service	\$ 2,045,440	\$ 2,330,915	\$ 2,462,729	\$ 2,390,788	\$ (71,941)	-2.92%

Reserve Fund

	2014 Actual	2015 Actual	2016 Appropriated	2017 Preliminary	2016 vs. 2017 \$ (+/-) % (+/-)	
Reserve Fund	\$ -	\$ -	\$ 200,000	\$ 200,000	\$ -	0.00%
Total Reserve Fund	\$ -	\$ -	\$ 200,000	\$ 200,000	\$ -	0.00%



Town of Natick

Home of Champions

Department: Water & Sewer Operations

Enterprise Fund

Narrative:

Sanitary Sewer Operations

Personnel Services

Salaries Supervisory: To fund the positions of Distribution Manager and Chief Plant Operator.

Salaries Operational Staff: To fund eleven employees who maintain and repair the wastewater collection system.

Salaries Temporary Operational: This fund is for police details for work done in the roadways and part-time help.

Supervisory Additional Compensation: This fund is for education incentive stipends and service awards.

Operational Staff Additional Compensation: This fund is for longevity and temporary upgrades per union contract.

Operational Staff Overtime: This fund is for emergencies and callbacks after normal operating hours.

Purchase of Services

Equipment Repairs/Maintenance: This fund is for the repairs and maintenance of the town's thirty four sewer pump stations which include check valves, motor starters, mechanical seals, etc.

Repairs/Maintenance Other: This fund is for the repairs and maintenance of the alarms, wiring, and fencing.

Electricity: This fund is for the use of electricity at the Sewer Pumping Stations.

Other Services (Misc.)

Licenses CDL and Special: This fund is for the reimbursement to the employees for license renewals, CDL, Hoisting, required training etc.

Clothing Allowance Operational Staff: This fund is for the clothing allowance per union agreement.

Tech & Professional Services

Professional Services-MWRA/Sulfide Testing: This fund is for the testing of the sewer before it enters the Massachusetts Water Resource Authority (MWRA) sewer system and other professional services dealing with this issue as required by the municipal discharge permit.

Supplies

Miscellaneous Construction Repairs and Maintenance: This fund is for the repairs and maintenance of sewer pipe, fittings, sewer camera, manhole covers and sewer rod equipment.

Other Charges

Sewer Line Maintenance: This fund is used for the engineering, repairing, maintenance and rehabilitation of the thirty four sewer pump stations and for the 150 miles of sewer mains such as video inspection of sewers, replacement of sewer pipe, and manholes.

Massachusetts Water Resource Authority (MWRA) Assessment: This fund is for the costs of the Town's sewer discharge into the MWRA sewer collection system.

Water Operations

Personnel Services

Salaries Supervisory: To fund the positions of GIS Coordinator/Water Information Management, Compliance Coordinator, and Supervisor of Water and Sewer, who oversees this division.

Salaries Operational Staff: To fund fourteen employees positions who maintain and repair the water distribution system.

Salaries Temporary Operational: This fund is for police details for work done in the roadways and for part time help.

Supervisory Additional Compensation: This fund is for education incentive stipends and service awards.



Town of Natick

Home of Champions

Department: Water & Sewer Operations Line-Item Detail

Narrative:

Water Operations (con't)

Operational Staff Additional Compensation: This fund is for longevity and temporary upgrades per union contract.

Operational Staff Overtime: This fund is for emergencies and callbacks after normal operating hours.

Purchase of Services

Repairs and Maintenance Software: This fund is used for maintaining the SCADA System at the Water Treatment Plants. It covers the upgrade of intrusion software, hardware replacements and other related computer items.

Electricity: This fund is for the use of electricity at the Water Treatment Plant, Evergreen Wells, Morse's Pond Well, Pine Oaks Well, Elm Bank Well and the Booster Station at Captain Toms Hill.

Copy Mail Center: This fund is for Division's share of the copy/mail center cost.

Purchased Services Miscellaneous: This fund is used for supplies and equipment including printers, computers, computer hardware etc.

Other Services Misc.

Licenses CDL and Special: This fund is for the reimbursement to the employees for license renewals CDL, Hoisting, Water; memberships to NEWWA; required training, etc.

Environmental Management System: This fund is for the audits required to maintain the Environmental Management System and the ISO Certification.

Clothing Allowance Operational Staff: This fund is for the clothing allowance per union agreement.

Safe Drinking Water Act (SDWA) Amendment: This fund is for all Volatile Organic Compounds (VOC) water and other tests mandated by the Massachusetts Department of Environment Protection (DEP), U.S. Environmental Protection Agency (EPA) and Safe Drinking Water Act (SDWA).

Supplies

Water Tests: This fund is for all weekly water testing which includes coliform, manganese, fluoride, lead and copper (among many other compounds).

Equipment Repairs/Service: This fund is for the repair of metal detectors, hoses, and service tapping machine.

Facility Repairs and Maintenance: This fund is for the repairs of locks, the purchase of propane gas and belts for air strippers.

Hydrant Repairs and Maintenance: This fund is used to repair and maintain the 1,400 fire hydrants in town.

Miscellaneous Construction Repairs and Maintenance: This fund is for replacing old water gates, ductile iron water pipe, gate boxes, large pipe fittings, tapping sleeves and water gates.

Other Supplies

Chemical Supplies: This fund is for the chemicals (chlorine gas, hydroflousilic acid and potassium permanganate) injected into the water.

Replace Obsolete Meters: This fund is for the replacement of large water meters and flow meters for the water wells and for the calibration of large meters, etc.

Service Connections: This fund is to replace old water line services and replacing the water line in the streets that are to be repaved, including one inch plastic water pipe, curb stops, brass fittings, service boxes and cellar valves, etc.

Other Charges & Expenditures

Water Line Maintenance: This fund is for repairs and maintenance at the water treatment plant, water pump stations and water wells, consultant fees and emergencies.

New Hydrant Installation: This fund is for the installation and replacement of old fire hydrants.

Asphalt Crushing: This fund is used to hire a crusher for the gravel pit to recycle extra dirt and asphalt.

Department of Environment Protection Assessment: This fund is used for the DEP annual assessment.

Massachusetts Water Resource Authority Discharge Permit: This fund is used to pay the Massachusetts Water Resource Authority for the water discharge permit at the water treatment plant.



Town of Natick

Home of Champions

Department: Water & Sewer Operations Line-Item Detail

Narrative:

Utility Billing Operations

Personnel Services

Salaries Operational Staff Salaries: Two full-time staff positions are funded in this line item. These positions are responsible for preparation of monthly water and sewer charges, special billings (final bills, flat charges, etc.), printing of water/sewer bills, posting payments, customer service inquiries, file maintenance, etc.

Part Time Operational: This funds 240 hours of part-time operational staff. This position provides administrative / clerical support to the Treasurer/ Collector and will be available during peak receipt periods to supplement the full-time Utility Billing staff.

Overtime Operational: This funds overtime worked by operational staff during peak receipt periods.

Purchase of Services

Repairs and Maintenance: This is for the maintenance and repair of business equipment used in the Collector's office for Utility Billing purposes. The primary equipment is the high speed laser printer used for production of the water / sewer bills and bar code scanning equipment, etc.

In State Travel/Meetings: For attendance at Department of Revenue seminars, Treasurer/Collector Association meetings, and administrative/clerical support staff seminars.

Training and Education: These costs related to POINT Software training, Neptune meter reading and inventory systems, Invoice Cloud software, and PC specialized training seminars, etc.

Communication Telephone: Costs assigned to the Utility Billing for telephone service.

Communication Postage: Direct cost associated with the mailings from the Utility Billing Collector's Office. (Water/ Sewer bills, water quality survey, water ban, etc.). This item is reduced to reflect the actual amounts expended over the past several years. There has not been a need to mail notices for a mandatory water BAN.

Collection Activities: Printing and mailing notices of unpaid/delinquent charges, and demand bills, and other accounts receivable.

Copy/Mail Center Fees: Cost assigned to the Utility Billing Collector's Office for mail center labor for mail handling and copy charges.

Technical & Professional Services

Utility Billing Software: This is utilized for minor programming modifications for water / sewer billing. These would include modifications not included in the annual maintenance that Point Software provides for the Water and Sewer receivable / collection system.

Utility Billing Printing: The cost of services and supplies for the preparation of water/sewer bills including forms, consumables (toner), CASS certification software (Accu-Zip).

Supplies

Office Supplies : General office supplies for the Utility Billing Collector's Office for employee benefit and bank reconciliation functions.



Town of Natick

Home of Champions

Department: Water & Sewer Operations Line-Item Detail

Employee Benefits

Pays for benefits for Water & Sewer Benefit eligible employees.

Debt Service

Principal Payments:

Principal on debt service for multiple water and sewer capital improvement projects.

Interest Payments:

Interest on debt service associated with general obligation bonds issued for water and sewer projects. Of that amount, \$30,000 represents the estimated amount for Bond Anticipation Notes & issue costs (bond counsel, financial advisor, rating agency fees, etc.) for authorized borrowings.

Reserve Fund

Covers \$200,000 for emergencies & unforeseen contingencies within the fund.

Water & Sewer Employee Health Benefits Summary

Active

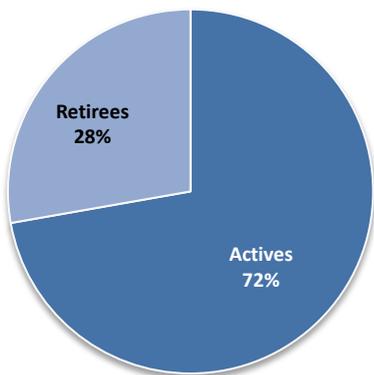
- Traditional HMO's	\$	-
- Rate Saver HMO's	\$	280,793
Continuity of Care Mitigation	\$	10,000
Retiree Mitigation	\$	-
Sentinel Benefits Administration Fee	\$	1,188
Additional Plans	\$	35,957

Retiree

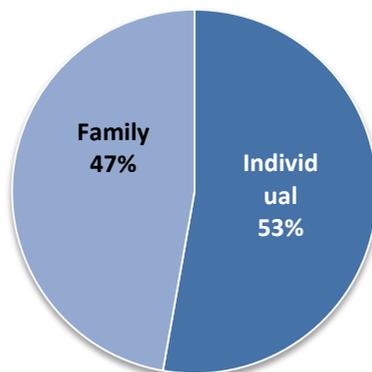
- Retiree Health Plans	\$	39,155
Life Insurance (\$4.25/mo. x Total Benefited Employees)	\$	1,122
Hepatitis Shots	\$	7,500
All other Miscellaneous Items: (Health Fair/Legal Issues, etc.)	\$	1,500

Total Employee Health Benefits	\$	377,215
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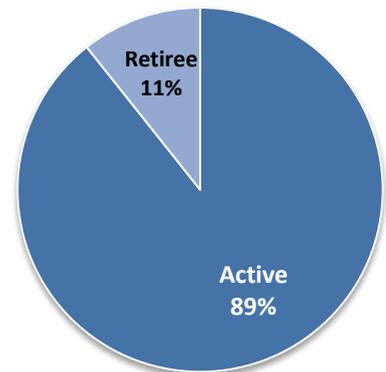
**Participants -
Actives
vs. Retirees**



**Active Participants -
Individuals vs.
Family**



**Cost - Actives
vs. Retirees**



Water & Sewer Enterprise - Active Employees - Rate Saver HMO's

Active Employees

Active Employees Plans:		Individual		Family			
HEALTH PLANS:	Total	Town Share	Total	Town Share	Total Cost		
	\$	%	\$	\$	%	\$	\$
RATE SAVER EPO PLANS:							
Blue Choice							
Monthly Rates (Regular Members)	927.30	62.00%	574.93	2,487.10	62.00%	1,542.00	
Participants			3			1	
Annual Total			\$20,697			\$18,504	\$ 39,201
Fallon Group Direct Care							
Monthly Rates (Regular Members)	627.00	75.00%	470.25	1,684.10	75.00%	1,263.08	
Participants			0			1	
Annual Total			\$0			\$15,157	\$ 15,157
Harvard/Pilgrim							
Monthly Rates (Regular Members)	809.60	62.00%	501.95	2,109.80	62.00%	1,308.08	
Participants			3			7	
Annual Total			\$18,070			\$109,878	\$ 127,949
Tufts Rate Saver							
Monthly Rates (Regular Members)	876.70	62.00%	543.55	2,296.80	62.00%	1,424.02	
Participants			2			5	
Annual Total			\$13,045			\$85,441	\$ 98,486

Premium Cost Summary	Enrollments	Single	8	Family	14	
Active Health Plans						\$ 280,793
Continuity of Care Mitigation						\$ 10,000
Retiree Mitigation						\$ -
Sentinel FSA Costs						\$ 1,188
Vacant Positions (1)						\$ 15,157
Individual Plan Reserve (1)						\$ 5,643
Family Plan Reserve (1)						\$ 15,157
Total Appropriation Needed						\$ 307,138

Enrollments as of 12/2015

Retiree Health Care

Retirees - Non Medicare Eligible

Active Employees Plans:	Individual			Family			Total Cost
	Total	Town Share		Total	Town Share		
HEALTH PLANS:							
	\$	%	\$	\$	%	\$	\$
RATE SAVER EPO PLANS:							
Harvard/Pilgrim PPO							
Rates (Regular Members)	2,494.80	50.00%	\$ 1,247.40	5,539.60	50.00%	\$ 2,769.80	
Participants			1			0	
Annual Total			\$14,969			\$0	\$ 14,969

Premium Cost Summary	Enrollments		\$	14,969
	Single	Family		
Active Health Plans	1	0		
Total Appropriation Needed			\$	14,969

Retirees - Medicare Eligible

Senior Plans:	Individual			HEALTH PLANS:	Individual		
	Total	Town Share			Total	Town Share	
	\$	%	\$		\$	%	\$
HPHC Medicare Enhancement				BCBS Medex Enhanced			
Monthly Rates (Jul-Dec)	342.00	65.34%	223.46	Monthly Rates (Jul-Dec)	360.00	64.57%	232.45
Monthly Rates (Jan-June)	376.20	65.34%	245.81	Monthly Rates (Jan-June)	396.00	64.57%	255.70
Participants			1	Participants			1
Total			\$2,816	Total			\$2,929
Fallon Senior Plan				Tufts Medicare Prime			
Monthly Rates (Jul-Dec)	310.00	66.92%	207.45	Monthly Rates (Jul-Dec)	321.00	66.34%	212.95
Monthly Rates (Jan-June)	341.00	66.92%	228.20	Monthly Rates (Jan-June)	353.10	66.34%	234.25
Participants			0	Participants			6
Total			\$0	Total			\$16,099
Tufts Medicare Preferred HMO				BCBS Managed Blue for Seniors			
Monthly Rates (Jul-Dec)	267.00	69.64%	185.94	Monthly Rates (Jul-Dec)	313.20	66.75%	209.06
Monthly Rates (Jan-June)	293.70	69.64%	204.53	Monthly Rates (Jan-June)	344.52	66.75%	229.97
Participants			1	Participants			0
Total			\$2,343	Total			\$0

Medicare Eligible Retirees	Enrollments		
	Single	Family	
	9	0	
Total Medicare Eligible Employees (Senior Plans)			\$24,186

Total Retiree Health Care	\$39,155
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Enrollments as of December 2015



Town of Natick

Home of Champions

Department: Enterprise Fund Debt Service - Principal

Year of Issue	Project	Amount Issued	Fiscal Year 2016	Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Issue	Total
			Principal	Principal	Principal	Principal	Principal	Principal	Balance	Principal
1998	Water Treatment Plant *Refunded 2012	\$ 1,175,000	\$ 64,000	\$ 64,000	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 124,000
1998	Sewer (Pleasant, Rockwood, etc.) *Refunded 2012	\$ 285,000	\$ 13,000	\$ 13,000	\$ 13,000	\$ -	\$ -	\$ -	\$ -	\$ 26,000
1999	Sewer (Pleasant, Eliot, Union, etc.) *Refunded 2012	\$ 750,000	\$ 38,000	\$ 35,000	\$ 35,000	\$ 22,000	\$ 20,000	\$ -	\$ -	\$ 112,000
1999	Sewer (Union St) *Refunded 2012	\$ 615,000	\$ 29,000	\$ 26,000	\$ 25,000	\$ 13,000	\$ 12,000	\$ -	\$ -	\$ 76,000
1999	Water (Lakeshore Dr) *Refunded 2012	\$ 500,000	\$ 27,000	\$ 27,000	\$ 26,000	\$ 13,000	\$ 12,000	\$ -	\$ -	\$ 78,000
2000	Water (Lakeshore Dr) *Refunded 2012	\$ 540,000	\$ 24,000	\$ 23,000	\$ 23,000	\$ 22,000	\$ 22,000	\$ 22,000	\$ -	\$ 112,000
2000	Sewer (Boden Ln & Water, Lincoln, etc.) *Refunded 2012	\$ 1,335,000	\$ 37,000	\$ 37,000	\$ 36,000	\$ 36,000	\$ 35,000	\$ 35,000	\$ -	\$ 179,000
2002	Sewer (Lakeshore Rd) *Refunded 2013	\$ 430,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 15,000	\$ 15,000	\$ 110,000
2002	Sewer (Leach Ln) *Refunded 2013	\$ 210,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 60,000
2006	Sewer (Speen St, Park Ave)	\$ 2,100,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 630,000	\$ 1,155,000
2007	Water Treatment (MWPAT) *Refunded (Net amount)	\$ 4,884,838	\$ 258,294	\$ 268,041	\$ 277,787	\$ 292,408	\$ 302,155	\$ 311,902	\$ 1,312,393	\$ 2,764,686
2008	Water Treatment Plant *Refunded	\$ 225,925	\$ 15,000	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,000
2009	Water Relining	\$ 3,000,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 600,000
2009	Equipment W-9 Backhoe	\$ 90,000	\$ 10,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000
2010	Water Relining	\$ 600,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ -	\$ -	\$ 240,000
2010	Springvale Well	\$ 250,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ 100,000
2010	Reservoir Refurbishment	\$ 500,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ 200,000
2010	Sewer Pump Station 5	\$ 300,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ -	\$ -	\$ 120,000
2010	Sewer Jet Truck	\$ 250,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ 100,000
2010	Sewer I&I (MWRA)	\$ 77,385	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2011	Final Phase V	\$ 800,000	\$ 55,000	\$ 55,000	\$ 55,000	\$ 55,000	\$ 55,000	\$ 55,000	\$ 250,000	\$ 525,000
2012	Radio Meter Transmitters	\$ 150,000	\$ 30,000	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,000
2012	Ground Water Wells	\$ 300,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 180,000
2012	Variable Frequency Drives	\$ 260,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 150,000
2012	DPW Headquarters Renovations	\$ 504,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000
2012	MWRA I&I	\$ 196,845	\$ 39,369	\$ 39,369	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,369
2012	DPW Vehicle Garage Roof	\$ 66,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 5,000	\$ -	\$ -	\$ -	\$ 25,000
2013	Force Main Bradford / Pamela - Rt 9	\$ 1,650,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 770,000	\$ 1,320,000
2013	Replace Ground Water Wells	\$ 300,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 60,000	\$ 210,000
2013	Filter Modification @ Springvale WTP	\$ 200,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 40,000	\$ 140,000
2014	Replace Ground Water Wells	\$ 300,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 160,000	\$ 260,000
2014	Town Forest Reservoir Roof	\$ 220,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 115,000	\$ 190,000
2014	Prime Park Pump Station Wall	\$ 150,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 45,000	\$ 120,000
2014	Energy Efficiency Upgrades - Springvale WTP	\$ 150,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 45,000	\$ 120,000
2014	Tonka Valves & Filters - Springvale WTP	\$ 100,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 30,000	\$ 80,000
2014	Chrysler Road Sewer Line Replacement	\$ 48,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 5,000	\$ -	\$ -	\$ -	\$ 25,000
2014	MWRA I&I	\$ 755,700	\$ 151,140	\$ 151,140	\$ 151,140	\$ 151,140	\$ -	\$ -	\$ -	\$ 453,420
2014	W-22 (Dump Truck w/Plow)	\$ 220,000	\$ 40,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ -	\$ -	\$ 140,000
2014	W-14 (Backhoe w/Plow)	\$ 135,000	\$ 25,000	\$ 25,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ -	\$ -	\$ 85,000
2014	Speen Street Sewer Work	\$ 180,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 40,000	\$ 140,000
Est. 2015	Sewer Station and Generator Upgrades (Travis Road)	\$ 360,000		\$ 36,000	\$ 36,000	\$ 36,000	\$ 36,000	\$ 36,000	\$ 180,000	\$ 360,000
Est. 2015	Sewer Pump Station Replacement (Eliot Hill)	\$ 230,000		\$ 23,000	\$ 23,000	\$ 23,000	\$ 23,000	\$ 23,000	\$ 115,000	\$ 230,000
Est. 2015	Public Works Expansion	\$ 101,500		\$ 10,150	\$ 10,150	\$ 10,150	\$ 10,150	\$ 10,150	\$ 50,750	\$ 101,500
Est. 2015	Ground Water Wells	\$ 300,000		\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 200,000	\$ 300,000
Est. 2015	MWRA I&I - Sewer Main Relining	\$ 242,250		\$ 48,450	\$ 48,450	\$ 48,450	\$ 48,450	\$ 48,450	\$ -	\$ 242,250
Est. 2016	VFD's for Pumps - Springvale Water Treatment	\$ 120,000		\$ -	\$ 12,000	\$ 12,000	\$ 12,000	\$ 12,000	\$ 72,000	\$ 120,000
Est. 2016	Covered Storage Building	\$ 200,000		\$ -	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 160,000	\$ 200,000



Town of Natick

Home of Champions

Department: Enterprise Fund Debt Service - Principal

Year of Issue	Project	Amount Issued	Fiscal Year 2016	Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Issue	Total
			Principal	Principal	Principal	Principal	Principal	Principal	Balance	Principal
Est. 2016	Water Distribution System Enhancements	\$ 150,000		\$ -	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 90,000	\$ 150,000
Est. 2016	Replace Ground Water Wells	\$ 300,000		\$ -	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 180,000	\$ 300,000
Est. 2016	Springvale Water Treatment Plant - Re-use Tank	\$ 390,000		\$ -	\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000	\$ 234,000	\$ 390,000
Est. 2016	Route 30 Water Main Loop	\$ 450,000		\$ -	\$ 22,500	\$ 22,500	\$ 22,500	\$ 22,500	\$ 360,000	\$ 450,000
Est. 2016	West Central Water Main Replacement	\$ 1,200,000		\$ -	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 960,000	\$ 1,200,000
Est. 2016	Replace W-23 (Dump Truck)	\$ 225,000		\$ -	\$ 32,150	\$ 32,150	\$ 32,150	\$ 32,150	\$ 96,400	\$ 225,000
Water and Sewer Enterprise Principal			\$ 1,998,403	\$ 1,996,150	\$ 2,120,177	\$ 1,712,798	\$ 1,556,405	\$ 1,272,152	\$ 6,325,543	\$ 14,983,225
Total Amount Remaining			\$ 16,981,628	\$ 14,983,225	\$ 12,987,075	\$ 10,866,898	\$ 9,154,100	\$ 7,597,695	\$ 6,325,543	-



Town of Natick

Home of Champions

Department: Enterprise Fund Debt Service - Interest

Year of Issue	Project	Fiscal Year 2016		Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Issue	Total
		Amount Issued	Interest	Interest	Interest	Interest	Interest	Interest	Balance	Interest
1998	Water Treatment Plant *Refunded 2012	\$ 1,175,000	\$ 6,240	\$ 3,680	\$ 1,200	\$ -	\$ -	\$ -	\$ -	\$ 19,290
1998	Sewer (Pleasant, Rockwood, etc.) *Refunded 2012	\$ 285,000	\$ 1,300	\$ 780	\$ 260	\$ -	\$ -	\$ -	\$ -	\$ 4,040
1999	Sewer (Pleasant, Eliot, Union, etc.) *Refunded 2012	\$ 750,000	\$ 5,240	\$ 3,680	\$ 2,380	\$ 1,240	\$ 400	\$ -	\$ -	\$ 19,320
1999	Sewer (Union St) *Refunded 2012	\$ 615,000	\$ 3,620	\$ 2,520	\$ 1,500	\$ 740	\$ 240	\$ -	\$ -	\$ 13,150
1999	Water (Lakeshore Dr) *Refunded 2012	\$ 500,000	\$ 3,660	\$ 2,580	\$ 1,520	\$ 740	\$ 240	\$ -	\$ -	\$ 13,220
2000	Water (Lakeshore Dr) *Refunded 2012	\$ 540,000	\$ 4,960	\$ 4,020	\$ 3,100	\$ 2,200	\$ 1,320	\$ 440	\$ -	\$ 21,720
2000	Sewer (Boden Ln & Water, Lincoln, etc.) *Refunded 2012	\$ 1,335,000	\$ 7,900	\$ 6,420	\$ 4,960	\$ 3,520	\$ 2,100	\$ 700	\$ -	\$ 34,620
2002	Sewer (Lakeshore Rd) *Refunded 2013	\$ 430,000	\$ 5,000	\$ 4,400	\$ 3,600	\$ 2,800	\$ 2,000	\$ 1,200	\$ 600	\$ 25,000
2002	Sewer (Leach Ln) *Refunded 2013	\$ 210,000	\$ 2,700	\$ 2,400	\$ 2,000	\$ 1,600	\$ 1,200	\$ 800	\$ 400	\$ 14,000
2006	Sewer (Speen St, Park Ave)	\$ 2,100,000	\$ 50,138	\$ 45,938	\$ 41,213	\$ 36,488	\$ 32,288	\$ 28,088	\$ 78,360	\$ 366,720
2007	Water Treatment (MWPAT) *Refunded (Net amount)	\$ 4,884,838	\$ 75,937	\$ 61,931	\$ 51,225	\$ 40,439	\$ 29,667	\$ 18,691	\$ 15,618	\$ 379,469
2008	Water Treatment Plant *Refunded	\$ 225,925	\$ 1,088	\$ 563	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,438
2009	Water Relining	\$ 3,000,000	\$ 34,875	\$ 23,625	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ 116,250
2009	Equipment W-9 Backhoe	\$ 90,000	\$ 763	\$ 388	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,275
2010	Water Relining	\$ 600,000	\$ 9,150	\$ 7,500	\$ 5,700	\$ 3,900	\$ 1,950	\$ -	\$ -	\$ 38,850
2010	Springvale Well	\$ 250,000	\$ 3,813	\$ 3,125	\$ 2,375	\$ 1,625	\$ 813	\$ -	\$ -	\$ 16,188
2010	Reservoir Refurbishment	\$ 500,000	\$ 7,625	\$ 6,250	\$ 4,750	\$ 3,250	\$ 1,625	\$ -	\$ -	\$ 32,375
2010	Sewer Pump Station 5	\$ 300,000	\$ 4,575	\$ 3,750	\$ 2,850	\$ 1,950	\$ 975	\$ -	\$ -	\$ 19,425
2010	Sewer Jet Truck	\$ 250,000	\$ 3,813	\$ 3,125	\$ 2,375	\$ 1,625	\$ 813	\$ 813	\$ -	\$ 17,001
2011	Phase V	\$ 800,000	\$ 19,675	\$ 16,925	\$ 15,275	\$ 13,625	\$ 11,425	\$ 9,775	\$ 25,125	\$ 133,150
2012	Radio Meter Transmitters	\$ 150,000	\$ 2,100	\$ 1,200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,300
2012	Ground Water Wells	\$ 300,000	\$ 6,900	\$ 6,000	\$ 4,800	\$ 3,600	\$ 2,400	\$ 1,200	\$ 600	\$ 33,300
2012	Variable Frequency Drives	\$ 260,000	\$ 5,750	\$ 5,000	\$ 4,000	\$ 3,000	\$ 2,000	\$ 1,000	\$ 500	\$ 27,750
2012	DPW Headquarters Renovations	\$ 504,000	\$ 11,500	\$ 10,000	\$ 8,000	\$ 6,000	\$ 4,000	\$ 2,000	\$ 1,000	\$ 55,500
2012	MWRA I&I (0% interest loan)	\$ 196,845	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2012	DPW Vehicle Garage Roof	\$ 66,000	\$ 1,300	\$ 1,000	\$ 600	\$ 200	\$ -	\$ -	\$ -	\$ 4,700
2013	Force Main Bradford / Pamela - Rt 9	\$ 1,650,000	\$ 46,750	\$ 43,450	\$ 39,050	\$ 34,650	\$ 30,250	\$ 25,850	\$ 85,663	\$ 354,613
2013	Replace Ground Water Wells	\$ 300,000	\$ 8,700	\$ 7,800	\$ 6,600	\$ 5,400	\$ 4,200	\$ 3,000	\$ 2,400	\$ 47,400
2013	Filter Modification @ Springvale WTP	\$ 200,000	\$ 5,800	\$ 5,200	\$ 4,400	\$ 3,600	\$ 2,800	\$ 2,000	\$ 1,600	\$ 31,600
2014	Replace Ground Water Wells	\$ 300,000	\$ 10,025	\$ 9,025	\$ 8,025	\$ 7,025	\$ 6,225	\$ 5,425	\$ 20,275	\$ 76,296
2014	Town Forest Reservoir Roof	\$ 220,000	\$ 7,369	\$ 6,619	\$ 5,869	\$ 5,119	\$ 4,519	\$ 3,919	\$ 14,007	\$ 54,976
2014	Prime Park Pump Station Wall	\$ 150,000	\$ 5,438	\$ 4,688	\$ 3,938	\$ 3,188	\$ 2,588	\$ 1,988	\$ 2,514	\$ 29,982
2014	Energy Efficiency Upgrades - Springvale WTP	\$ 150,000	\$ 5,438	\$ 4,688	\$ 3,938	\$ 3,188	\$ 2,588	\$ 1,988	\$ 2,514	\$ 29,982
2014	Tonka Valves & Filters - Springvale WTP	\$ 100,000	\$ 3,625	\$ 3,125	\$ 2,625	\$ 2,125	\$ 1,725	\$ 1,325	\$ 1,675	\$ 19,985
2014	Chrysler Road Sewer Line Replacement	\$ 48,000	\$ 1,700	\$ 1,200	\$ 700	\$ 200	\$ -	\$ -	\$ -	\$ 5,701
2014	MWRA I&I (0% interest loan)	\$ 755,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2014	W-22 (Dump Truck w/Plow)	\$ 220,000	\$ 8,300	\$ 6,300	\$ 4,550	\$ 2,800	\$ 1,400	\$ -	\$ -	\$ 32,241
2014	W-14 (Backhoe w/Plow)	\$ 135,000	\$ 5,100	\$ 3,850	\$ 2,600	\$ 1,600	\$ 800	\$ -	\$ -	\$ 19,420
2014	Speen Street Sewer Work	\$ 180,000	\$ 6,800	\$ 5,800	\$ 4,800	\$ 3,800	\$ 3,000	\$ 1,325	\$ 2,000	\$ 34,599
Est. 2015	Sewer Station and Generator Upgrades (Travis Road)	\$ 360,000	\$ 14,400	\$ 12,960	\$ 11,520	\$ 10,080	\$ 8,640	\$ 7,200	\$ 14,400	\$ 79,200
Est. 2015	Sewer Pump Station Replacement (Eliot Hill)	\$ 230,000	\$ 9,200	\$ 8,280	\$ 7,360	\$ 6,440	\$ 5,520	\$ 4,600	\$ 9,200	\$ 50,600
Est. 2015	Public Works Expansion	\$ 101,500	\$ 4,060	\$ 3,654	\$ 3,248	\$ 2,842	\$ 2,436	\$ 2,030	\$ 4,060	\$ 22,330
Est. 2015	Ground Water Wells	\$ 300,000	\$ 12,000	\$ 11,200	\$ 10,400	\$ 9,600	\$ 8,800	\$ 8,000	\$ 36,000	\$ 96,000



Town of Natick

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Department: Enterprise Fund Debt Service - Interest

Year of Issue	Project	Amount Issued	Fiscal Year 2016	Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Issue	Total
			Interest	Interest	Interest	Interest	Interest	Interest	Balance	Interest
Est. 2015	MWRA I&I - Sewer Main Relining	\$ 242,250	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Est. 2016	VFD's for Pumps - Springvale Water Treatment	\$ 120,000	\$ -	\$ -	\$ 4,800	\$ 4,320	\$ 3,840	\$ 3,360	\$ 10,080	\$ 26,400
Est. 2016	Covered Storage Building	\$ 200,000	\$ -	\$ -	\$ 8,000	\$ 7,600	\$ 7,200	\$ 6,800	\$ 54,400	\$ 84,000
Est. 2016	Water Distribution System Enhancements	\$ 150,000	\$ -	\$ -	\$ 6,000	\$ 5,400	\$ 4,800	\$ 4,200	\$ 12,600	\$ 33,000
Est. 2016	Replace Ground Water Wells	\$ 300,000	\$ -	\$ -	\$ 12,000	\$ 10,800	\$ 9,600	\$ 8,400	\$ 25,200	\$ 66,000
Est. 2016	Springvale Water Treatment Plant - Re-use Tank	\$ 390,000	\$ -	\$ -	\$ 15,600	\$ 14,040	\$ 12,480	\$ 10,920	\$ 32,760	\$ 85,800
Est. 2016	Route 30 Water Main Loop	\$ 450,000	\$ -	\$ -	\$ 18,000	\$ 17,100	\$ 16,200	\$ 15,300	\$ 122,400	\$ 189,000
Est. 2016	West Central Water Main Replacement	\$ 1,200,000	\$ -	\$ -	\$ 48,000	\$ 45,600	\$ 43,200	\$ 40,800	\$ 326,400	\$ 504,000
Est. 2016	Replace W-23 (Dump Truck)	\$ 225,000	\$ -	\$ -	\$ 9,000	\$ 7,714	\$ 6,429	\$ 5,143	\$ 7,714	\$ 36,000
Water and Sewer Enterprise Interest			\$ 434,325	\$ 364,638	\$ 416,706	\$ 342,773	\$ 284,695	\$ 228,280	\$ 910,065	\$ 3,426,175

Total Amount Remaining	\$ 2,981,483	\$ 2,547,158	\$ 2,182,520	\$ 1,765,814	\$ 1,423,040	\$ 1,138,345	\$ 910,065	\$ -
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Summary of Debt - Water & Sewer Enterprise Fund

	Fiscal Year 2016	Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Issue	Total
Water & Sewer Enterprise Fund Principal	\$ 1,998,403	\$ 1,996,150	\$ 2,120,177	\$ 1,712,798	\$ 1,556,405	\$ 1,272,152	\$ 6,325,543	\$ 14,983,225
Water & Sewer Enterprise Fund Interest	\$ 434,325	\$ 364,638	\$ 416,706	\$ 342,773	\$ 284,695	\$ 228,280	\$ 910,065	\$ 3,426,175
BAN interest, Admin Fees and Issue Costs	\$ 30,000	\$ 30,000						
Total Annual Debt Service	\$ 2,462,728	\$ 2,390,788	\$ 2,536,883	\$ 2,055,571	\$ 1,841,100	\$ 1,500,432	\$ 7,235,608	\$ 18,409,400
Total Amount Remaining	\$ 19,963,111	\$ 17,530,383	\$ 15,169,595	\$ 12,632,712	\$ 10,577,141	\$ 8,736,041	\$ 7,235,608	\$ -



Town of Natick

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Department: Water & Sewer Operations Indirect Cost Allocations

	<u>Personnel Cost</u>	<u>Fringe</u>	<u>Expense Cost</u>	<u>Total</u>
DPW Administration	97,882	20,477	16,250	134,609
Engineering Services	302,675	57,388	26,848	386,911
Equipment Maintenance	225,221	45,485	120,947	391,653
Highway Sanitation Recycling	122,002	33,851	126,507	282,360
Facility Maintenance	28,636	8,465	32,380	69,481
Public Safety	86,982	20,759	3,152	110,893
Finance - Administration	9,296	907	-	10,203
Finance - Assessing	7,692	1,134	50	8,876
Finance - Collector/Treasurer	59,465	15,774	9,650	84,890
Finance - Comptroller	51,917	10,299	-	62,216
Town Administration	112,101	21,840	27,975	161,916
Community Development	65,946	18,046	2,205	86,196
Information Technology	32,336	6,744	77,810	116,890
Procurement	26,480	7,224	685	34,389
Human Resources	1,928	526	405	2,859
Legal Services	-	-	35,710	35,710
Property & Liability Insurance	-	-	256,700	256,700
Utilities	-	-	52,002	52,002
Vehicle Fuel	-	-	100,562	100,562
Sub Total - General Fund				2,389,319

Water Sewer Staff Performing General Fund Functions:

	<u>Personnel Cost</u>	<u>Fringe</u>	<u>Expense Cost</u>	<u>Total</u>
GIS Services	(31,352)	(7,177)	-	(38,529)
W/S Admin. Asst. - DPW	(28,950)	(8,181)	-	(37,131)
W/S Admin. Asst. - Collector	(48,610)	(13,963)	-	(62,572)
Snow and Ice Removal	(32,485)	(451)	-	(32,936)
Subtotal - Water Sewer				(171,169)

Total Water and Sewer Indirect Costs **2,218,150**

Notes:

Indirect Costs are based upon the Previous Fiscal Year's (FY 2016) Final Appropriated Budget. Please remember that Town Meeting does not appropriate these the action taken is to approve these. Appropriation occurs within the respective budgets listed above are approved by Town meeting.

Water/Sewer Enterprise Fund Projection & Initial Proposed Single-Family Home Rate for FY 2017

Water/Sewer Enterprise Fund Projection - FY 2017 - FY 2019

Summary: The projection shown below is for planning purposes **ONLY**. It is not intended to serve as a budget or plan for expenditures. Accounting for practically level indirect costs and funding of requested capital projects through a mixture of debt and retained earnings financing and considering a slight reduction in consumption, FY 2017 should see an increase of 3% in most rates (See below). Later years, however, rates will likely be between 4.0-6.0% increases annually, driven mainly by anticipated increases in the cost of electricity, the MWRA Assessment and full funding of capital requests.

	2015 Appropriation	2016 Appropriation	2017 Preliminary	2018 Estimate	2019 Estimate
Revenues					
User Charges	\$ 12,793,448	\$ 13,421,612	\$ 13,570,025	\$ 14,519,784	\$ 15,020,440
Connection Fees	\$ 70,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
Other Departmental Income	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000
Investment Income	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000
Retained Earnings	\$ 245,000	\$ 373,000	\$ 291,000	\$ 197,000	\$ 144,000
Total Revenues	\$ 14,228,448	\$ 15,014,612	\$ 15,081,025	\$ 15,936,784	\$ 16,384,440
Expenses					
Sewer	\$ 6,326,185	\$ 6,588,213	\$ 6,728,987	\$ 7,065,436	\$ 7,418,708
Water	\$ 2,011,383	\$ 2,202,991	\$ 2,301,900	\$ 2,370,957	\$ 2,442,086
Utility Billing	\$ 183,814	\$ 188,793	\$ 201,214	\$ 207,250	\$ 213,468
Fringe Benefits	\$ 723,751	\$ 791,486	\$ 748,986	\$ 793,925	\$ 841,560
Debt Service	\$ 2,330,915	\$ 2,462,729	\$ 2,390,788	\$ 2,861,883	\$ 2,861,883
Reserve Fund	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
Indirects (included in G/F)	\$ 2,207,400	\$ 2,207,400	\$ 2,218,150	\$ 2,240,332	\$ 2,262,735
Capital	\$ 245,000	\$ 373,000	\$ 291,000	\$ 197,000	\$ 144,000
Total Expenses	\$ 14,228,448	\$ 15,014,612	\$ 15,081,025	\$ 15,936,784	\$ 16,384,440

Preliminary Proposed Single-Family Water & Sewer Rates for FY 2017

Summary: Just as the projection above, the projected rates below are purely for illustrative purposes only. Actual rates will be determined through recalibration of the rate model in preparation of meeting with the Water & Sewer Commissioners for FY 2017 rate setting, which will begin in April 2016. Should the budget be approved as it is recommended, including funding of the revised capital requests, the impact upon this years rates is shown below. Average W/S bills for a single family home would increase around **3.0%, or \$16.84** annually.

Rate Options for the average Single-Family House (17.35 HCF/quarter)

					Increase of:
2016	Combined Rate	Consumption	Qtr. Cost	Annual Cost	3.00%
Bills	\$ 6.21	10	\$ 62.10	\$ 248.40	
	\$ 10.64	7.35	\$ 78.20	\$ 312.82	
		17.35	\$ 140.30	\$ 561.22	
2017 (draft)	Combined Rate	Consumption	Qtr. Cost	Annual Cost	
Bills	\$ 6.40	10	\$ 63.96	\$ 255.85	
	\$ 10.96	7.35	\$ 80.55	\$ 322.20	
		17.35	\$ 578.05		
Cost increase/year over FY 2016				\$ 16.84	
Cost increase/quarter over FY 2016				\$ 4.21	