

# WATER AND SEWER COMMITTEE MEETING MINUTES

TUESDAY, JANUARY 30, 2018

In attendance: John Scenna (Chair) – Director of Public Works, Art Flavin – Treasurer, Elena Proakis Ellis – City Engineer, Scott Forbes – BOA Representative, Patrick Dello Russo – CFO/Auditor, Ken Truesdale and Mary Werler – Citizen Committee Members, Donna Cardillo – Enterprise Fund Manager, Lisa Patterson – Water and Sewer Administrator, Amy Heidebrecht - Clerk, Gerry Mroz.

The meeting was opened at 3:00 PM.

## 1. FY18 COMMITTEE MEMBERS

John Scenna introduces the two citizens Committee members, Ken Truesdale and Mary Werler. They both provide a short background on themselves. Mary has been a resident of Melrose for almost 22 years, she has two sons and works in the investment business as a portfolio manager. Ken has been a resident of Melrose since 1994, he is a software consultant and has twins in 4<sup>th</sup> grade.

## 2. PAST MEETING MINUTES

John Scenna presented draft meeting minutes from Tuesday, December 19th which had been emailed to the Committee members in advance of the meeting.

Art Flavin made a motion to accept the set of minutes. Scott Forbes seconded. All approved the set of minutes.

## 3. PUBLIC PARTICIPATION

Elena Proakis Ellis made a motion to open public participation and Scott Forbes seconded. All approved.

Gerry Mroz from 62 Mt. Vernon Street asks what we are doing for inflow and infiltration. He voices his concern regarding excess infiltration and inflow. He states that more than half of the water that goes to the MWRA through our sewer system does not come from our houses, it comes out of the ground or other people's basements or one way or another. He continues to say that the large capital costs from the MWRA are funded by our sewage and high water use over the year. When we have one big rain storm a year, it often poisons our whole year for that month. He asks that we do some sort of campaign for I/I and post the flow rates. He says that he attended the Board of Alderman meeting the night prior and that they are going to give the schools \$333,000 to improve the audio in the auditorium at the Middle School. He asks why that money does not go towards inflow and infiltration or use our reserves to improve I/I.

Art Flavin made a motion to close public participation. Patrick Dello Russo seconded. All were in favor.

#### **4. OPERATIONS UPDATE: FLUSHING, LEAK DETECTION, WARWICK ROAD AND I/I PROGRAM**

##### Flushing Program and Leak Detection Update:

John Scenna goes over what our flushing program entails for our new Committee members. He states that our leak detection study showed 12 leaks: 1 major leak, 5 service leaks and 6 hydrant leaks. There was an estimated total of 113,000 gallons a day of leakage in the system. He continues to explain that we received this report at the beginning of January and we hope to have all these leaks addressed by our crew by the middle of February.

##### Warwick Road Update:

Elena Proakis Ellis provides a short overview of the water main replacement program. The project has a value of approximately \$900,000. It includes replacement of water mains on Altamont Avenue, Perkins Street from Warwick Road to the City limit and Day Street which are all done. It also includes Warwick Road, which is a little more complicated because it is not just a replacement. We have two parallel mains, a six inch and a sixteen inch. We are switching over to the larger of the two mains, which will bring a better supply of water for that area.

##### Infiltration & Inflow (I/I) Project Update:

Elena Proakis Ellis explains what I/I is and goes over the Rapid Flow work to the new Committee members. We have chosen five sub-areas out of thirty where we had the worst I/I flows. We put inspection cameras through them and we did night time flow isolation. Based on that information we are lining 33,000 feet of sewer that had the worst defects. Then in the spring, once they have finished all the lining, they redo that testing to compare the I/I conditions.

Elena continues that we also did smoke testing in sewer manholes this past summer in the same sub-areas and that we will be putting together a contract this spring to repair the issues found. We have \$2,162,000 of I/I funds from the MWRA available to us. They are 75% grant funding and 25% of a 0% interest loan and we have taken advantage of that full amount of money, which was approved by the Board of Alderman in November 2016. Art Flavin asks if we have anything left in the pipeline and whether we will be doing anything additional before June 30<sup>th</sup>, 2018. Elena responds that we do not have anything left and that she does not expect the City to be doing anything additional before the end of the fiscal year. Elena adds that in the next fiscal year the MWRA should have more money available to us.

John Scenna states that we have a new I/I pamphlet that he will present it to the new Mayor and then he will share it with the Committee hopefully in February. He explains that the pamphlet is geared towards the end user, residents, and that we will probably use them at any fairs we participate in and also hand them out when residents do a final water bill.

#### **5. UPDATE ON IMPLEMENTATION OF MONTHLY BILLING PROGRAM**

John Scenna introduces Lisa Patterson, Donna Cardillo and Amy Heidebrecht to the new members. Donna Cardillo goes over how the first three months are going for monthly billing and the mechanics of switching the accounts over. The City is read in six sections; we are transitioning to monthly and offering monthly per section when we are sending out our quarterly billing. We have roughly 1,500 accounts per section

and the residents are given a couple of weeks to contact us to enroll in monthly billing. We have sent out three sections and we are only receiving between 5% and 10% per section that want to enroll in monthly billing: Section B has 9.6%, Section C has 5% and Section A has 5.7%. We currently have a total of 288 accounts who enrolled in monthly billing out of 3,916 accounts that it was offered to. She expects that we will have about 1000 accounts total once we are done rolling this out, which should take about six months. After we go through the six months, if you want to switch from quarterly to monthly we can do that after their next quarterly bill. Donna explains that the reason we have to do that is because we have a tiered system that is based on consumption, so we cannot get a monthly bill and have it be read over 60 days as that will result in their being bumped up into the higher tier. We are trying to push the read date closer to the billing date. Currently, some reads are a whole month before the bill date and we are working towards making it closer to two weeks. Mary Werler asks if our goal is to move 100% of the accounts over to monthly. Art Flavin explains that the overhead associated with sending out monthly bills is expensive and that we offered it as a matter of convenience for the end user. He added that we would probably consider having the entire City go monthly if the percentage of residents interested was 75% or higher. John Scenna explains that we offered the monthly billing option because that was something that residents were requesting. He says that some residents expressed it helps them budget or catch if there is an issue sooner. Donna Cardillo says that our new radio meters help with catching if someone has a leak sooner because we can flash the meter from the outside and pull the data from the last 90 days. She says we still have approximately 500 accounts that have not replaced their meters even though we are assessing a \$50 manual read fee per quarter. She adds that some of those houses have bad valves or are businesses with larger meters.

## **6. UPDATE ON DISCOUNT PROGRAMS**

Donna Cardillo provides highlights on our discount programs for the new members of the Committee. She talks about the Senior Fair, the guidelines for the Water & Sewer discount, the Senior Condominium Credit, and the Senior Trash Discount. She explains that the Senior Water & Sewer Discount is based on consumption, the Senior Trash Discount is based on income and the Senior Condominium Discount is a \$146 water credit that is applied to their January real estate tax bill since they are not separately metered. John Scenna explains that the Auditor's Office and Treasurer's Office do internal transfers amongst accounts between the general fund and the water and sewer enterprise fund.

## **7. MUNICIPAL ACCOUNTS**

John Scenna explains that municipal accounts are City Hall, our schools, parks, fields, concession stands and the library. Lisa Patterson says that reading meters monthly on our municipal accounts will help us detect any issues and provide us with the opportunity of addressing the issues sooner, just like our residents. She adds that we just read this week and our first read was about 65 days. Once we read a few times we will have a better idea of what we are looking at. Lisa continues that we have about 65 municipal accounts and that we have replaced six meters in the municipal buildings since our last meeting. The majority of municipal accounts have new meters now. There are a couple of elementary schools left that we will have to wait until school vacation to replace because we will need to shut off the water in order to replace them.

## **8. FY17 BALANCES AND CURRENT RESERVE ACCOUNTS BALANCES**

Patrick Dello Russo reports that currently the water enterprise reserve fund has 10% of the operating budget, \$611,924.80, and sewer also has 10% of the total budget, \$860,370.70 in reserves. He explains to the new members of the Committee that Melrose has four enterprise funds and each of these funds are separate and should be looked at as separate entities. Water and sewer are two of these funds. He further explains that each year we are required to submit all of our financial information for each fund separately to the Department of Revenue. They determine if each fund is solvent. If not, they will ask us to make an adjustment, cut our expenses, raise our rates, or they will not set our tax rate. Back in 2013 the Department of Revenue looked at the water and sewer funds, and the sewer fund was approximately at a \$153,000 deficit. Patrick says that the state asked us to hire a consultant to do a study of our system and come up with a formal process for water and sewer billing. They also asked us to build reserves and at the time we had none. Both consultants we have used have said that we should raise 20% in reserves. The percentage was debated and the Board of Aldermen decided that 10% would satisfy the requirement. He goes on to say that the Board of Aldermen, through the Water Committee and Auditor's Department, developed a five year program to raise the money to put in the stabilization fund. The Department of Revenue has Patrick send them progress reports periodically to make sure we are doing what we said we would. Those reserves are now in place, we met our target, and we are going to keep it at the 10% level. He further states that as a Committee and the Board of Aldermen, we do not make the final decision, it is the Department of Revenue who does. Mary Werler asks if the money going in is what the residents pay. Patrick says yes. She asks if the money going out is what we pay MWRA and expenses for staff, maintenance and such. Patrick says yes and further explains that, for example the fund for water cannot be applied to sewer and Mt. Hood cannot be put towards water. He says that the general fund can subsidize the enterprise funds and free cash can be appropriated to one of the stabilization funds if needed. Mary asks how much the rates were increased over the course of the last five years. Patrick says that he does not have those numbers in front of him but that he could get Mary the answer. Art Flavin said last year it was not increased. Going forward from here, Mary asks if we would be increasing our rates. Patrick Dello Russo explains that we should not have to raise rates for additional reserves if we meet our target and there are not any unforeseen issues.

## **9. MWRA ADVISORY BOARD INFORMATION**

Elena Proakis Ellis provides highlights about what the MWRA Advisory Board has been discussing. The retail rate survey is wrapped up and is now on the MWRA Advisory Board website:

<http://mwraadvisoryboard.com/wp-content/uploads/2017/12/2017RateSurvey.pdf>

Also, the new rate calculator allows you to compare Melrose rates in any volume you want to all the other MWRA communities and some communities outside of the MWRA:

<http://mwraadvisoryboard.com/rate-calculator/>

Art Flavin points out that you are not comparing apples to apples because some communities have their own sewer plant or their own pipes or processing plant or buy their water from somewhere else. For example, the Town of Hull buys their water from a private company and has their own sewer processing plant, so their rates are all different. Ken Truesdale asks whether there are other communities that are partially served so we can have a clear comparison within the MWRA rate survey. Elena Proakis Ellis says that you can look at Cambridge on the rate survey, they are not served by MWRA water, but they are served by MWRA wastewater and the rate survey will show both. For instance, on the wastewater side you can look at Salem and Peabody because they go to South Essex sewer district instead of Deer Island.

You can compare wastewater rates for them as non-MWRA sewer communities because they are water served communities, and thus shown in the rate survey.

The Advisory Board also reviews the MWRA budget every year to make recommendations. They had a campaign that they were calling "4 No More" because they did not want to see an increase of 4% or more on an annual basis to be passed down to the communities. The MWRA has stuck to that for a number of years and the increases tend to be 3.5 % to 3.9%. Elena says that the biggest takeaway from the rate survey this year is that the fully served MWRA communities had very small rate increases. The average rate increase across all of MWRA communities was only 2% and the average increase of fully served communities was only 1%. Historically 1% is far lower compared than prior years.

Elena Proakis Ellis provides a summary on the Advisory Board's capital plan for the next five years. There are going to be upgrades to the Chelsea Creek Headworks, where our waste water goes through first. There is also going to be the Malden and Revere Sewer Rehab Project which will touch the corner of Melrose. In addition, the EPA is making changes to the Lead & Copper Rule and they are opening it up for public comments from chief elected officials.

Elena continues to say that it is the Advisory Board staff's opinion that we should raise our rates commensurate with the MWRA percentage each year in order to keep in the pace of what they feel is responsible spending on capital projects that we fund internally, staffing and other operational improvements. Elena reminds the Committee that we own the collection system on the sewer side and the distribution system on the water side. Any costs that are associated with improvements on the water mains, sewer mains or the water services that are in the street portion are all paid outside of the MWRA assessment.

John Scenna says that we have been advised by the MWRA that our initial preliminary FY19 assessments will be arriving in February.

#### **10. CY 2017 CONSUMPTION REVIEW**

John Scenna reports that for calendar year 2017 compared to 2016, the City brought in 8% less water from the MWRA, consumed 1.7% less of the system share than we did in 2016 (see attached). He says that this is related to the climate because we had that really dry summer and fall in 2016. The only time we were not the lowest in the past three years was in the fall and that was due to the flushing program. He continues that this is what the MWRA will base our FY19 assessments on.

#### **11. UPCOMING SCHEDULE OF MEETINGS AND TOPICS**

John Scenna reminds the Committee of the next meeting date: February 27<sup>th</sup> at 3:00 PM.

Patrick Dello Russo moves to close the meeting. Art Flavin seconded. All were in favor.

The meeting was adjourned at 4:15 PM.

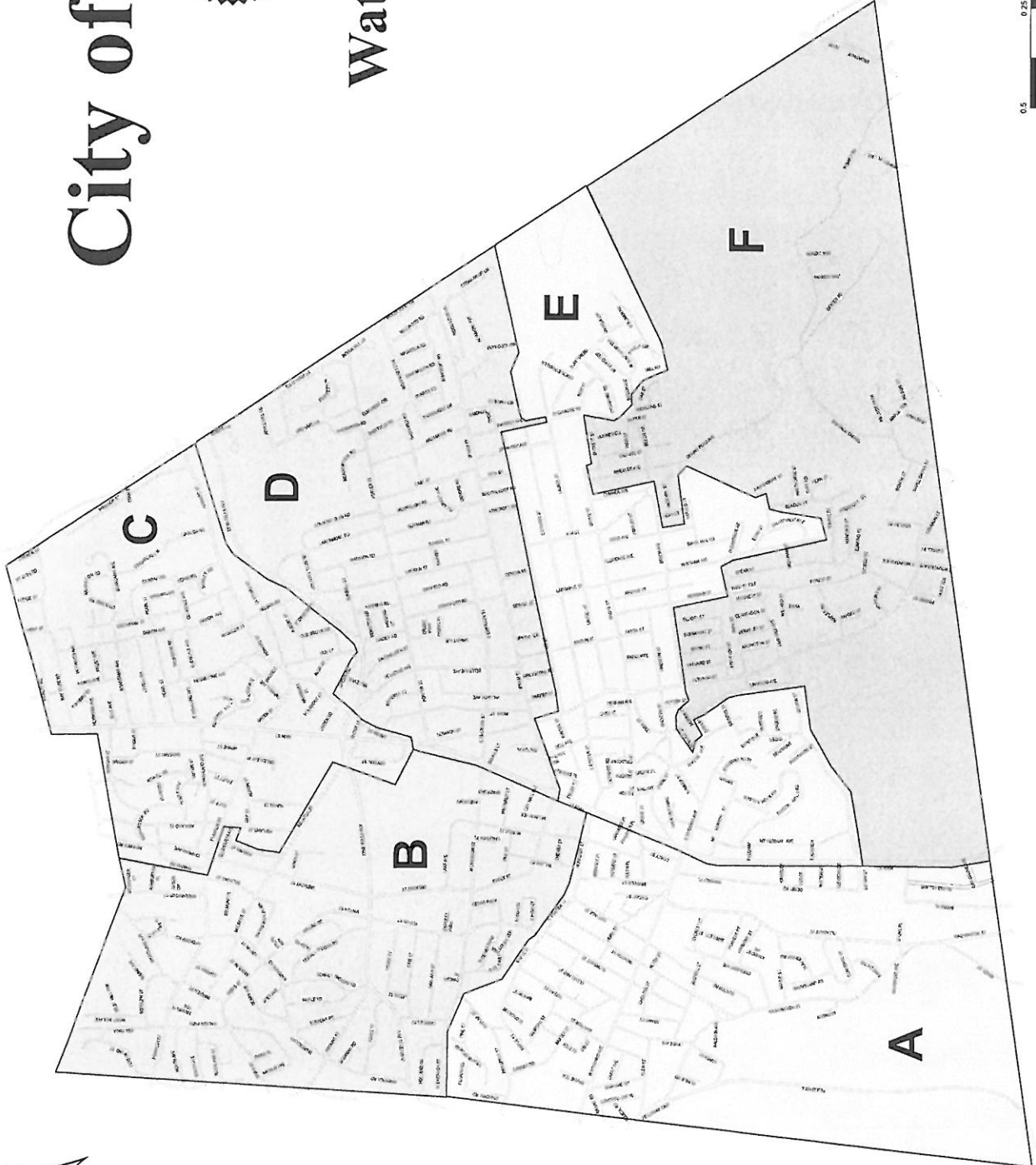




# City of Melrose



## Water Routes Map



When Monthly Billing Will be Available For Water Routes

A	1/6/2018
B	11/8/2017
C	12/6/2017
D	4/6/2018
E	2/6/2018
F	3/6/2018



# Massachusetts Water Resources Authority MWRA Water Supplied (MGD)

## Reporting Period: December 2017

ALL DATA SUBJECT TO CHANGE OR ADJUSTMENT PENDING ADDITIONAL MWRA AND COMMUNITY REVIEW

Prior Year-End  
Totals

	Monthly (MGD)			YTD (MGD)			YTD		System Share		Totals 2016	
	Dec		Flow Change	YTD		Flow Change	Flow Share <sup>1</sup>		% Change in YTD Flow Share	Ave. Flow mgd	Flow Share <sup>1</sup>	
	2017	2016		2017	2016		2017	2016				
<b>Metro-System Customers</b>												
Arlington	3,356	3,296	1.8%	3,600	3,981	-9.6%	2.1%	2.1%	-3.4%	3,981	2.1%	
Belmont	1,693	1,644	3.0%	1,967	2,217	-11.3%	1.1%	1.2%	-5.2%	2,217	1.2%	
Boston (BWSC)	58,556	60,010	-2.4%	63,020	65,524	-3.8%	36.3%	35.4%	2.7%	65,524	35.4%	
Brookline	4,001	4,030	-0.7%	4,866	5,192	-6.3%	2.8%	2.8%	0.1%	5,192	2.8%	
Canton (P)	0,824	1,288	-36.0%	1,296	1,936	-33.1%	0.7%	1.0%	-28.5%	1,936	1.0%	
Chelsea	3,132	3,105	0.9%	3,339	3,263	2.4%	1.9%	1.8%	9.3%	3,263	1.8%	
Dedham-Westwood W.D. (P)	0,017	0,021	-19.4%	0,107	0,226	-52.7%	0.06%	0.12%	-49.5%	0,226	0.1%	
Everett	3,648	3,839	-5.0%	3,779	3,953	-4.4%	2.2%	2.1%	2.1%	3,953	2.1%	
Framingham	4,941	5,104	-3.2%	5,673	6,104	-7.1%	3.3%	3.3%	-0.7%	6,104	3.3%	
Leominster (P)	0,000	0,000	0.0%	0,000	0,000	0.0%	0.0%	0.0%	0.0%	0,000	0.0%	
Lexington <sup>2</sup>	3,772	3,775	-0.1%	4,928	5,549	-11.2%	2.8%	3.0%	-5.1%	5,549	3.0%	
Lynn (LWSC) (P)	0,199	0,226	-11.7%	0,221	0,249	-11.1%	0.13%	0.13%	-5.1%	0,249	0.13%	
Lynnfield W.D.	0,396	0,370	7.1%	0,526	0,571	-7.8%	0.30%	0.31%	-1.5%	0,571	0.31%	
Malden	4,911	4,728	3.9%	4,931	5,158	-4.4%	2.8%	2.8%	2.1%	5,158	2.8%	
Marblehead	1,354	1,296	4.5%	1,750	1,884	-7.1%	1.0%	1.0%	-0.8%	1,884	1.0%	
Marlborough (P)	3,519	3,502	0.5%	4,024	3,739	7.6%	2.3%	2.0%	15.0%	3,739	2.0%	
Medford	4,334	4,430	-2.2%	4,468	4,869	-8.2%	2.6%	2.6%	-2.0%	4,869	2.6%	
Melrose	1,805	1,776	1.6%	2,003	2,177	-8.0%	1.2%	1.2%	-1.7%	2,177	1.2%	
Milton	2,259	2,354	-4.0%	2,445	2,666	-8.3%	1.4%	1.4%	-2.0%	2,666	1.4%	
Nahant	0,247	0,330	-25.4%	0,343	0,410	-16.3%	0.20%	0.22%	-10.6%	0,410	0.22%	
Needham (P)	0,005	0,108	-95.7%	0,592	0,846	-30.1%	0.3%	0.5%	-25.3%	0,846	0.5%	
Newton	6,895	7,535	-8.5%	8,351	9,833	-15.1%	4.8%	5.3%	-9.3%	9,833	5.3%	
Northborough (P)	0,825	0,820	0.5%	0,879	0,946	-7.1%	0.5%	0.5%	-0.8%	0,946	0.5%	
Norwood	2,336	2,451	-4.7%	2,810	2,825	-0.5%	1.6%	1.5%	6.3%	2,825	1.5%	
Peabody (P)	2,970	1,486	99.9%	2,878	1,479	94.6%	1.7%	0.8%	107.9%	1,479	0.8%	
Quincy	7,467	8,107	-7.9%	8,295	9,305	-10.9%	4.8%	5.0%	-4.8%	9,305	5.0%	
Reading	1,370	1,412	-3.0%	1,588	1,687	-5.9%	0.9%	0.9%	0.6%	1,687	0.9%	
Revere	3,427	3,458	-0.9%	3,585	3,735	-4.0%	2.1%	2.0%	2.5%	3,735	2.0%	
Saugus	2,599	2,594	0.2%	2,777	3,016	-7.9%	1.6%	1.6%	-1.6%	3,016	1.6%	
Somerville	5,250	5,427	-3.3%	5,569	6,048	-7.9%	3.2%	3.3%	-1.6%	6,048	3.3%	
Southborough	0,619	0,587	5.5%	0,908	1,069	-15.1%	0.5%	0.6%	-9.3%	1,069	0.6%	
Stoneham	1,879	1,868	0.6%	2,158	2,309	-6.5%	1.2%	1.2%	-0.2%	2,309	1.2%	
Stoughton (P)	0,137	0,200	-31.6%	0,112	0,194	-42.4%	0.1%	0.1%	-38.4%	0,194	0.1%	
Swampscott	1,196	1,138	5.1%	1,398	1,444	-3.2%	0.8%	0.8%	3.4%	1,444	0.8%	
Wakefield (P)	1,284	1,555	-17.4%	1,475	1,655	-10.9%	0.9%	0.9%	-4.8%	1,655	0.894%	
Waltham	5,225	5,271	-0.9%	6,437	6,894	-6.6%	3.7%	3.7%	-0.3%	6,894	3.7%	
Watertown	2,292	2,353	-2.6%	2,555	2,584	-1.1%	1.5%	1.4%	5.6%	2,584	1.4%	
Wellesley (P)	0,094	0,000	#DIV/0!	1,027	1,329	-22.7%	0.6%	0.7%	-17.4%	1,329	0.7%	
Weston	0,860	0,971	-11.5%	1,724	2,150	-19.8%	1.0%	1.2%	-14.4%	2,150	1.2%	
Wilmington (P)	0,166	0,001	12899.7%	0,348	0,592	-41.3%	0.20%	0.32%	-37.2%	0,592	0.32%	
Winchester (P)	0,502	0,932	-46.1%	1,273	1,618	-21.4%	0.7%	0.9%	-16.0%	1,618	0.9%	
Winthrop	1,148	1,121	2.4%	1,174	1,232	-4.7%	0.7%	0.7%	1.8%	1,232	0.7%	
Woburn (P)	1,822	1,284	41.9%	2,196	2,773	-20.8%	1.3%	1.5%	-15.4%	2,773	1.5%	
<b>Subtotal Metro-System</b>	<b>153,330</b>	<b>155,803</b>	<b>-1.6%</b>	<b>173,393</b>	<b>185,233</b>	<b>-6.4%</b>	<b>100%</b>	<b>100%</b>		<b>185,233</b>	<b>100%</b>	
<b>Chicopee Valley Aqueduct</b>												
Chicopee	4,636	4,252	9.0%	5,026	5,339	-5.9%	70.7%	69.3%	2.1%	5,339	69.3%	
South Hadley FD #1	0,799	0,805	-0.6%	1,012	1,132	-10.6%	14.2%	14.7%	-3.0%	1,132	14.7%	
Wilbraham	0,784	0,781	0.3%	1,068	1,238	-13.7%	15.0%	16.1%	-6.4%	1,238	16.1%	
<b>Subtotal CVA System</b>	<b>6,219</b>	<b>5,838</b>	<b>6.5%</b>	<b>7,106</b>	<b>7,709</b>	<b>-7.8%</b>	<b>100%</b>	<b>100%</b>		<b>7,709</b>	<b>100%</b>	
<b>Other Revenue Supply</b>												
Cambridge (P)	0,000	1,202	-100.0%	0,000	2,320	-100.0%				2,320		
Clinton <sup>3</sup>	1,225	1,165	5.2%	1,409	1,509	-6.6%				1,509		
Worcester (P)	0,000	0,610	-100.0%	0,000	2,315	-100.0%				2,315		
<b>Other Revenue Customers <sup>4</sup></b>	<b>1,453</b>	<b>1,441</b>	<b>0.8%</b>	<b>1,363</b>	<b>1,427</b>	<b>-4.5%</b>				<b>1,427</b>		
<b>Subtotal Other Revenue Supply <sup>5</sup></b>	<b>2,678</b>	<b>4,418</b>	<b>-39.4%</b>	<b>2,772</b>	<b>7,571</b>	<b>-63.4%</b>				<b>7,571</b>		
<b>Total Water Supplied</b>												
Fully Supplied Metro Communities	140,966	144,380	-2.4%	156,967	167,650	-6.4%				167,650		
CVA Communities	6,219	5,838	6.5%	7,106	7,709	-7.8%				7,709		
Partially Supplied Communities	12,364	13,235	-6.6%	16,427	22,218	-26.1%				22,218		
Other Revenue Customers	2,678	2,606	2.8%	2,772	2,936	-6.6%				2,936		
<b>Total Water Supplied <sup>6</sup></b>	<b>162,227</b>	<b>166,059</b>	<b>-2.3%</b>	<b>183,271</b>	<b>200,513</b>	<b>-8.6%</b>				<b>200,513</b>		

1) System share for each rate revenue community is the community's share of total MWRA water use for all rate revenue communities. System share for each Chicopee Valley Aqueduct (CVA) community is each CVA community's share of total MWRA water supplied to the CVA system. Water assessments for revenue communities are calculated by allocating the total annual water rate revenue requirement based on each community's share of flow. Water assessments for CVA communities are calculated by allocating the annual CVA rate revenue requirement based on each CVA community's share of CVA flow.

2) Lexington supplies Bedford with partial MWRA water service.

3) The Town of Clinton receives up to 800 million gallons of water per year free of charge and is charged a flat wholesale rate per million gallons for water in excess of 800 million gallons per year.

4) Other Revenue Customers: D.C.R. (Parks & Pools), Stone Zoo, Deer Island WWTP and Department of Youth Services.

5) Other Revenue Customers are charged a flat wholesale rate per million gallons of water supplied.

6) This report includes only water supplied for which revenue is collected in accordance with existing user agreements. It does not include water utilized for system maintenance.

(P) Community is partially supplied by MWRA.

Question's regarding water supplied can be directed to David Liston @ (617) 305-5853 or Leo Norton @ (617) 788-2256.



# Massachusetts Water Resources Authority

Water Supplied: City of Melrose

Share of Metro System Water Use		
Year to Date (YTD)	Annual	
2017	2016	2016
<b>1.16%</b>	<b>1.18%</b>	<b>1.18%</b>

YTD CHANGES (CY17 vs. CY16)		
Water Supplied	Melrose System Share	
Metro System	Melrose	
<b>-6.6%</b>	<b>-8.0%</b>	<b>-1.7%</b>

MGD	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Average	Annual Average
CY2015	2.104	2.220	2.131	1.898	2.626	2.504	2.742	2.825	2.727	2.103	1.883	1.835	2.301	2.301
CY2016	1.844	1.842	1.825	1.862	2.255	2.744	3.044	2.848	2.383	1.914	1.771	1.776	2.177	2.177
CY2017	1.772	1.710	1.708	1.747	1.890	2.293	2.372	2.524	2.287	2.076	1.826	1.805	2.003	2.003

MG	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Annual Total
CY2015	65,216	62,146	66,063	56,944	81,399	75,122	85,014	87,560	81,799	65,188	56,491	56,900	839,841	839,841
CY2016	57,165	53,414	56,571	55,861	69,920	82,332	94,359	88,278	71,492	59,327	53,116	55,067	796,902	796,902
CY2017	54,939	47,875	52,959	52,404	58,585	68,795	73,544	78,240	68,604	64,364	54,787	55,947	731,042	731,042

Melrose Water Consumption

