

FOR SERVICE AT				NASHUA NH		Pennichuck Water		ROUTE NUMBER	ACCOUNT NUMBER
								1501	100025962-88578
METER NUMBER	FROM	TO	DAYS	PREVIOUS READING	PRESENT READING	CONSUMPTION		NEXT READ DATE	
65118380	10/28	11/21	24	937	938	1		12/22/14	

Note Please go to www.pennichuck.com/CCR-A0.pdf to view your 2014 annual water quality report and learn more about your drinking water. This report contains important information about the source and quality of your drinking water. If you would like a paper copy of the 2014 Annual Water Quality Report mailed to your home, please call our customer service department at 800-553-5191.

Previous Balance	229.51
Payment Since Last Bill	165.29
Adjustment Since Last Bill	0.00
Balance Before Current Charges	64.22

New Charges - ACTUAL READ

PWW WATER CONSUMPTION 1 CCF @ 3.30	3.30
PWW MTHLY MTR 5/8"	20.34
100: COLLECTION FEE- REG HRS	46.00
WICA	0.16

Current Charges 69.80

New Balance 134.02

CURRENT CHARGES ARE DUE BY 12/29/2014

ONLINE PAYMENT IS NOW AVAILABLE AT WWW.PENNICHUCK.COM

PENNICHUCK IS SEEKING NHPUC FINAL APPROVAL OF THE 2014 WICA SURCHARGE IN JANUARY. PLEASE VISIT WWW.PENNICHUCK.COM FOR MORE INFORMATION.

WICA - This bill contains a .67% Water Infrastructure and Conservation Adjustment (WICA) charge. For further information please refer to the back of your bill.

The 2014 Annual Water Quality Report is now available on-line at www.pennichuck.com/CCR-A0.pdf

PLEASE DETACH HERE AND RETURN LOWER PORTION WITH YOUR PAYMENT.

ACCOUNT NUMBER	DIVISION	ROUTE NUMBER	BILL DATE	DUE DATE	TOTAL DUE
100025962-88578	NASHUA	1501	12/04/2014	12/29/2014	134.02



25 Manchester Street PO Box 1947 Merrimack, NH 03054-1947

PLEASE DO NOT FOLD OR STAPLE

ACCOUNT NUMBER	DIVISION	BILL DATE	PAY ON OR BEFORE	TOTAL DUE
100025962-88578	NASHUA	12/04/2014	12/29/2014	134.02

AMOUNT ENCLOSED

FOR SERVICE AT:

The 2014 Annual Water Report is available electronically at the url indicated above however, if you would prefer a paper copy mailed to your home, please check this box.

PLEASE CHECK HERE IF YOU ARE ENROLLING IN DIRECT PAYMENT AND FILL OUT APPLICATION ON OTHER SIDE

→

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NASHUA, NH 03063

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PLEASE CROSS OUT INCORRECT INFORMATION AND WRITE IN ANY CHANGES TO ADDRESS OR NAME ABOVE

Pennichuck Water Works, Inc.
2014 WICA Water Main Project Status
1/23/2015

PIPE SEGMENT OR PROJECT NAME	CITY/TOWN	Work Order Number	MATERIAL	ORIGINAL LENGTH (FEET)	PROJECTED LENGTH AS OF JUNE 2014 (FEET)	PROJECTED LENGTH AS OF END OF 2014 (FEET)	EXISTING PIPE DIAMETER (INCHES)	PROPOSED NEW PIPE DIAMETER (INCHES)	ORIGINAL WICA FILING ESTIMATED COST	ESTIMATED COST AS OF JUNE 2014	END OF YEAR (2014) COSTS	ANTICIPATED FINAL PAVING COSTS IN 2015 FOR 2014 USED AND USEFUL PROJECTS	AGE OF PIPE	PIPE AGE USEFUL LIFE	FULLY DEPREC	EXPLANATION
Baldwin St - Bridge/RR Crossing ¹	NASHUA	1300347 1400207	CAST IRON UNLINED	100	176	176	8	4	\$ 84,000	\$ 84,000	\$ 389,041	\$-	1938	70	YES	COMPLETE - The original Apportioning of the % of the total estimated cost for Baldwin St was incorrect
Baldwin Street ⁵	NASHUA	1400207	CAST IRON UNLINED	1,198	1,620	1,620	8	12	\$ 280,000	\$ 280,000	\$ 480,406	\$-	1938	70	YES	COMPLETE - Final design required significant change in the route of the water main in comparison to preliminary design. RR fees greater than anticipated.
Park St	NASHUA	1300216 1400205	CAST IRON UNLINED	312	312	312	6	12	\$ 68,950	\$ 68,950	\$ 104,539	\$ 4,084	1890	70	YES	USED AND USEFUL - Larger water main than planned and alternate route w/easements due to conflicts in Main St. Final paving to be completed in 2015.
Court St	NASHUA	1300217 1400204	CAST IRON UNLINED	435	435	435	8	12	\$ 47,000	\$ 47,000	\$ 103,843	\$ 4,506	1931	70	YES	USED AND USEFUL - Multiple day difficulties with shutdowns - resorted to insertion valve and night work. Final paving to be completed in 2015
Foundry Street ¹	AMHERST		TRANSITE	1,465	-	-	6	8	\$ 234,400	\$-	\$-	\$-	1950	70	NO	Postponed by Town of Amherst until 2015
Mack Hill Road (Bridge Crossing) ¹	AMHERST		TRANSITE	150	300	-	6	12	\$ 70,500	\$ 141,000	\$-	\$-	1950	70	NO	Postponed by Town of Amherst until 2015
Boston Post Road	AMHERST	1401073	TRANSITE	2,052	2,052	2,052	6	12	\$ 471,960	\$ 471,960	\$ 454,689	\$-	1950	70	NO	COMPLETE
Cross St	AMHERST	1401072	TRANSITE	410	410	410	4	6	\$ 65,600	\$ 65,600	\$ 52,501	\$-	1950	40	YES	COMPLETE
Burke St	NASHUA	1401070	CAST IRON UNLINED	3,160	3,160	3,160	6	12	\$ 537,200	\$ 537,200	\$ 900,545	\$ 40,681	1892-1906	70	YES	USED AND USEFUL - underestimated - bids were higher than expected. Final Paving to be completed in 2015
Eldrige St	NASHUA	1400209	CAST IRON UNLINED	410	410	410	6	6	\$ 143,500	\$ 143,500	\$ 92,201	\$ 5,206	1888	70	YES	USED AND USEFUL - Final paving to be completed in 2015.
Grove Street	NASHUA	1402912	CAST IRON UNLINED	260	260	260	4	4	\$ 49,400	\$ 49,400	\$ 55,517	\$ 3,166	1888	70	YES	USED AND USEFUL - Final paving to be completed in 2015.
Oak Street	NASHUA	1402916	CAST IRON UNLINED	520	520	520	4	6	\$ 106,600	\$ 106,600	\$ 118,819	\$ 5,978	1887-1924	40	YES	USED AND USEFUL - Final paving to be completed in 2015.
Robinson Court	NASHUA	1402913	CAST IRON UNLINED	260	260	260	2	4	\$ 98,800	\$ 98,900	\$ 55,528	\$ 2,132	1888	40	YES	Bids were lower than expected. USED AND USEFUL - Final paving to be completed in 2015.
Ridge Street ¹	NASHUA		CAST IRON UNLINED	325	-	-	4	4	\$ 71,500	\$-	\$-	\$-	1092-1959	40	YES	Postponed indefinitely
Cross Street	NASHUA	1402914	CAST IRON UNLINED	350	350	350	6	6	\$ 77,000	\$ 77,000	\$ 134,710	\$ 4,827	1891	70	YES	3 days of unanticipated ledge removal increased the price on this project. USED AND USEFUL - Final paving to be completed in 2015.
Broad Street	NASHUA	1400208	CAST IRON UNLINED	260	260	260	6	8	\$ 81,900	\$ 81,900	\$ 186,549	\$-	1903	70	YES	USED AND USEFUL - multiple piping changed caused by elevation conflicts with sewer.
Ninth Street ¹	NASHUA		GALV. STEEL LINED	-	627	-	2	4	\$-	\$ 102,000	\$-	\$-	1952-1957	50	YES	
Mulberry Street ¹	NASHUA		CAST IRON UNLINED	-	50	-	8	8	\$-	\$ 46,500	\$-	\$-	1932	70	YES	Project part of City FY2104 Sewer replacement program. Work to be completed in 2015
Belmont Street	NASHUA	1402915	CAST IRON UNLINED	-	372	372	8	8	\$-	\$ 74,360	\$ 97,173	\$ 6,942	1937	70	YES	USED AND USEFUL - Final paving to be completed in 2015.
Fairmount Street ¹	NASHUA	1400210	CAST IRON UNLINED	-	215	-	6	4	\$-	\$ 37,500	\$ 9,154	\$-	1887	70	YES	Project part of City FY2104 Sewer replacement program. Work to be completed in 2015
Temple Street ¹	NASHUA		CAST IRON UNLINED	1,030	1,030	-	10	12	\$ 278,100	\$ 278,100	\$-	\$-	1908	85	YES	City needs to determine a course of action for the sewer once they have all the data. The City's decision will dictate our course of action.
Franklin Street ²	NASHUA		CAST IRON UNLINED	264	-	-	24	24	\$ 138,735	\$-	\$-	\$-	1897	100	YES	Postponed indefinitely

Total LF-	12,961	12,819	10,597	Projected Total \$	\$ 2,905,145	\$ 2,791,470	\$ 3,235,215	\$ 77,522
Paving from 2013 projects -					\$ 110,000	\$ 110,000	\$-	
Valve Replacements ¹ -	15	@	\$2,000 =		\$ 30,000	\$ 30,000	\$ 22,855	
Service Replacements ¹ -	28	@	\$1,962 =		\$ 54,936	\$ 54,936	\$ 82,444	
Hydrant Replacements ¹ -	4	@	\$5,700 =		\$ 22,800	\$ 22,800	\$ 33,369	
Planning/Change Order Contingency ³ -					\$ 145,257	\$ 258,931	\$-	
Total Estimated WICA \$ in 2014 -					\$ 3,268,138	\$ 3,268,138	\$ 3,373,894	

- NOTES:
1. Project Deferred until 2015
 2. Project postponed by City to future date.
 3. Total project contingency set at 5% at the beginning of 2014. Project contingency adjusted in June of 2014 to result in projected WICA total staying the same as the original filing. Contingency has been eliminated from Year Ending 2014 \$\$\$. These \$\$\$ may change subject to audit.
 4. 2014 Year end costs reflect actual \$\$\$ spent on 5 valve replacements, 28 service replacements and 6 hydrant replacements
 5. The Baldwin Street Project is broken out into two separate line items based on the different segments of the project but the combined project costs are shown on one line.

Pennichuck Water Works, Inc.
Proposed 2015 WICA Water Main Projects
1/5/2015

PIPE SEGMENT OR PROJECT NAME	CITY/TOWN	MATERIAL	LENGTH (FEET)	EXISTING PIPE DIAMETER (INCHES)	PROPOSED NEW PIPE DIAMETER (INCHES)	ESTIMATED COST	PIPE INSTALLATION DATE	PIPE AGE USEFUL LIFE	FULLY DEPRIC	BREAK HISTORY	KEY CUSTOMERS	WATER QUALITY	FIRE PROTECTION FLOWS ²	Work coordination with Sewers or Storm Drain Replacement	Subtotal prior to Geographical Area Points	Geographic Points	TOTAL	Funding Source	Included in 2014-2016 WICA projects filed in Dec 2013
Chestnut Street (Lake to Lovell)	NASHUA	CAST IRON UNLINED	795	6	12	\$ 314,000	1918-1924	79	YES	1	1		5	\$	12	3	15	Series A Bond	Yes - 2015
Chestnut Street (Lovell to End)	NASHUA	CAST IRON UNLINED	263	6	12	\$ 105,000	1918-1925	79	YES	0			5	\$	10	3	13	Series A Bond	Yes - 2015
Lovell Street (Chestnut to Ash)	NASHUA	CAST IRON UNLINED	420	6	12	\$ 185,000	1892-1898	79	YES	1	5	1	4	\$	11	3	14	Series A Bond	Yes - 2016
Lovell Street (Ash to Pine)	NASHUA	CAST IRON UNLINED	750	4	8	\$ 269,000	1924-1934	40	YES	0	5		4	\$	9	3	12	Series A Bond	Yes - 2016
Lovell Street (Easterly of Chestnut to end)	NASHUA	GAVANIZED STEEL	187	1-1/4	4	\$ 45,000	1955	40	YES	0				\$	0	3	3	Series A Bond	Yes - 2016
Foundry Street	AMHERST	TRANSITE	1,465	6	8	\$ 299,000	1950	40	YES	0				\$	5	2	7	2014 SRF	Yes - 2014
Manchester Road (Bridge Crossing)	AMHERST	TRANSITE	300	6	12	\$ 176,000	1950	40	YES	0				\$	5	2	7	2014 SRF	Yes - 2014
School Street	AMHERST	TRANSITE	240	4	6	\$ 40,000	1950	40	YES	0				\$	5	2	7	2014 SRF	Yes - 2014
Miami Street (Intervale to Tampa)	NASHUA	GAVANIZED STEEL	427	2	8	\$ 346,000	1927	40	YES	1		1	4	\$	6	2	8	Series A Bond	No
Brook Street (Ash to Fuller)	NASHUA	CAST IRON UNLINED	1,141	6	8	\$ 87,000	1887-1934	79	YES	0	1		3	\$	4	2	6	Series A Bond	Yes - 2015
Hamilton Street (Lake to Brook)	NASHUA	CAST IRON UNLINED	411	6	6	\$ 130,000	1909-1941	79	YES	0	1			\$	1	2	3	Series A Bond	Yes - 2015
Burrill Street (Lake to Brook)	NASHUA	CAST IRON UNLINED	424	6	6	\$ 155,000	1887-1921	79	YES	0	1		3	\$	4	2	6	Series A Bond	Yes - 2015
Burrill Street (Brook St. southerly)	NASHUA	CAST IRON UNLINED	182	4	4	\$ 43,000	1941	40	YES	0				\$	0	2	2	Series A Bond	Yes - 2015
Ash Street (Lake to Lovell)	NASHUA	CAST IRON UNLINED	517	6	4	\$ 166,000	1892	79	YES	0				\$	0	3	3	Series A Bond	No
Ash Street (Lovell to End)	NASHUA	CAST IRON UNLINED	190	4 & 1-1/2	4	\$ 63,000	1921	40	YES	0				\$	0	3	3	Series A Bond	No
Lake Street (Pine St. easterly)	NASHUA	CAST IRON UNLINED	154	6	12	\$ 113,000	1888	79	YES	2			4	\$	6	2	8	Series A Bond	No
Mulberry Street	NASHUA	CAST IRON UNLINED	50	8	8	\$ 46,500	1922	79	YES	0				\$	5		5	2014 SRF	Yes - Revised 2014
Ninth Street	NASHUA	GAVANIZED STEEL	627	2	4	\$ 102,000	1952-1957	40	YES	0				\$	5		5	2014 SRF	Yes - Revised 2014
Temple Street	NASHUA	CAST IRON UNLINED	1,030	10	12	\$ 278,100	1908	79	YES	0				\$	5		5	Series A Bond	Yes - 2014
Falmour Street	NASHUA	CAST IRON UNLINED	215	6	4	\$ 57,000	1887	79	YES	0				\$	5		5	Series A Bond	Yes - Revised 2014
Rochette Avenue (Chestnut easterly)	NASHUA	CEMENT LINED STEEL	168	2	4	\$ 46,000	1952-1956	40	YES	1	1			\$	2		2	Series A Bond	Yes - 2015
Marquis Avenue (Lovell southerly)	NASHUA	CEMENT LINED STEEL	125	1-1/2	4	\$ 35,000	1945	40	YES	1	1			\$	2		2	Series A Bond	Yes - 2015
Aids Street (Main to Harbor), parallels 12" A-C below	NASHUA	CAST IRON UNLINED	1,722	6	Abandon	\$ 123,000	1931	79	YES	1	1			\$	4	3	7	Series A Bond	Yes - 2016
Aids Street (Main to Harbor, exclusive of bridge crossing)	NASHUA	TRANSITE	962	12	16	\$ 324,000	1961	85	NO	1	1			\$	2	3	5	Series A Bond	No
Aids Street - Salmon Brook Crossing	NASHUA	TRANSITE	760	12	16	\$ 425,000	1961	85	NO	0	1			\$	1	3	4	Series A Bond	No
Harbor Avenue (Aids northerly)	NASHUA	CAST IRON UNLINED	480	6	12	\$ 229,000	1688	79	YES	1	1			\$	2	2	4	Series A Bond	No
Coburn Woods	NASHUA	POLYBUTYLENE	700	2	4	\$ 274,000	1969	60	NO	11				\$	11		11	Series A Bond	No
			Total LP =	14,640	Total =	\$ 4,509,600													
Paving from 2014 projects -						\$ 77,522													
Valve Replacements ¹ -			8	@	\$ 4,571	=	\$ 36,569												
Service Replacements ² -			29	@	\$ 2,944	=	\$ 85,388												
Hydrant Replacements ³ -			5	@	\$ 5,562	=	\$ 27,808												
					Planning Contingency ⁴ -	\$ 450,390													
					Total Estimated WICA SS in 2015 -	\$ 5,181,247								\$	573,500				

1. Material Integrity - Rating of 1 point for each break in the last 20 years.
2. ISO Fire Ratings - A rating of 1 for each 500 gpm that the flow in the watermain is less than the ISO required rating.
3. Number of Service, Valve and hydrant replacements is the average of the past 5 years. The average cost for each replacement types is the average cost for 2014.
4. The City plans to add to its FY14 projects with projected FY15 projects.
PW must complete replacement of its mains when the City replaces its sewer mains.
The City operates on a Fiscal year basis between July 1 and June 30 of the following Calendar year. A contingency of 10% is carried to account for this.

Pennichuck Water Works, Inc.
Proposed 2016 WICA Water Main Projects
1/6/2015

PIPE SEGMENT OR PROJECT NAME	CITY/TOWN	MATERIAL	LENGTH (FEET)	PIPE DIAMETER (INCHES)	PROPOSED NEW PIPE DIAMETER (INCHES)	ESTIMATED COST	AGE OF PIPE	PIPE AGE USEFUL LIFE	FULLY DEPRIC	BREAK HISTORY	KEY CUSTOMERS	WATER QUALITY	FIRE PROTECTION FLOWS ²	Work coordination with Sewer or Storm Drain Replacement	Subtotal prior to Geographical Area Points	Geographic Points	TOTAL	Funding Source	Included in 2014-2016 WICA projects filed in Dec 2013
Verona Street (Garisto to Merritt)	NASHUA	CAST IRON UNLINED	698	6	6	\$ 267,000	1913 - 1915	70	YES	0	1		2		3	2	5		Yes - 2015
Sarasota Avenue (Pine to Verona)	NASHUA	CAST IRON UNLINED	250	6	6	\$ 99,000	1926-1949	70	YES	0	1				1	2	3		Yes - 2015
Temple Cover (South St. to Arroyo)	NASHUA	CAST IRON UNLINED	1256	8	12	\$ 472,000	1888	70	YES	0	1	1			2	2	2		Yes - 2016
Temple Street (Henry to East Hallis)	NASHUA	CAST IRON UNLINED	975	10	12	\$ 348,000	1908	70	YES	0					0		0		No
Lansdale Avenue (Revera to Stevens)	NASHUA	CAST IRON UNLINED	664	6	6	\$ 207,000	1927 - 1937	70	YES	1		1	2		4	2	6		No
Farmwood Street (Field to Fenwick)	NASHUA	CAST IRON UNLINED	307	6	6	\$ 100,000	1924-1945	70	YES	0			1		1	3	4		Yes - 2015
Field Street (Main to Farmwood)	NASHUA	CAST IRON UNLINED	306	6	6	\$ 117,000	1922	70	YES	0			1		1	3	4		Yes - 2015
Foxa Avenue (Main to end)	NASHUA	CAST IRON UNLINED	282	6	6	\$ 325,000	1928	70	YES	0			4		4	3	7		Yes - 2015
Pratt St (Main to Zahveco)	NASHUA	CAST IRON UNLINED	484	6	6	\$ 200,000	1906-1933	70	YES	0			1		1	2	3		Yes - 2015
Zahveco Avenue (Pratt to Fenwick)	NASHUA	CAST IRON UNLINED	367	6	4	\$ 92,000	1933	70	YES	0	1				1	5	4		Yes - 2016
Stevens Street (Lansdale to end)	NASHUA	CAST IRON UNLINED	150	6	4	\$ 65,000	1946	70	YES	0	1				1	2	3		No
Stevens Street (Main to Lansdale)	NASHUA	CAST IRON UNLINED	800	6 & 4	6	\$ 280,000	1896 - 1930	70	YES	0	1				1	2	3		No
Rivers Avenue (Main to Lansdale)	NASHUA	CAST IRON UNLINED	792	8	8	\$ 250,000	1919-1923	70	YES	1	1	1			3	3	6	Combination of 2014 Series A Bond and Future SRF funding	Yes - 2016
Fenwick Avenue (Main to Lansdale)	NASHUA	CAST IRON UNLINED	799	6	6	\$ 287,000	1921 - 1945	70	YES	1					1	2	3		No
Burnett Street (East Durabak to Rice)	NASHUA	CAST IRON UNLINED	482	6	6	\$ 155,000	1925	70	YES	0			1		1	2	3		No
Buchanan Street (Main to Nutt)	NASHUA	CAST IRON UNLINED	590	6	6	\$ 145,000	1908	70	YES	0			1		1	2	3		No
Faxon Avenue (Faxon St. to end)	NASHUA	CEMENT LINED STEEL	195	2	4	\$ 34,000	1940	40	YES	1					1	2	3		No
Nutt Street (Faxon to Lincoln)	NASHUA	CAST IRON UNLINED	420	4	6	\$ 87,000	1890	40	YES	1			1		2	2	4		No
Faxon Street (Main to Nutt)	NASHUA	CAST IRON UNLINED	586	6 & 8	6	\$ 128,000	1912	70	YES	1			1		2	2	4		No
Lincoln Avenue (Main to Field)	NASHUA	CAST IRON UNLINED	833	6	6	\$ 198,000	1889 - 1912	70	YES	2			1		3	2	5		No
Russell Street (Main to Field)	NASHUA	CAST IRON UNLINED	948	6	6	\$ 233,000	1906 - 1913	40	YES	0			1		1	1	3		No
Circle Avenue (Nutt to end)	NASHUA	CEMENT LINED STEEL	164	2	4	\$ 27,000	1930	40	YES	0					0	2	2		No
Taylor Street (Main to Lynn)	NASHUA	CAST IRON UNLINED	1629	6 & 8	12	\$ 405,000	1892 - 1940	70	YES	0			2		2	2	4		No
Morton Street (Park to Evergreen)	NASHUA	CEMENT LINED STEEL	456	2	4	\$ 116,000	1945 - 1936	40	YES	0	1				1	2	3		Yes - 2016
Evergreen St (Morton to Stevens)	NASHUA	STEEL	315	2	4	\$ 89,000	1945 - 1936	40	YES	1					1	2	3		Yes - 2015
Coburn Woods	NASHUA	Polybutylene	720	2	4	\$ 246,000	1969	40	YES	31					31		31		No
			Total LF--	15,468	Total --	\$ 4,764,000													
Valve Replacements ¹			5	@	\$	4,571													
Service Replacements ²			23	@	\$	2,944													
Hydrant Replacements ³			6	@	\$	5,562													
					Planning Contingency ⁴	\$													
						\$													
					Total Estimated WICA \$5 In 2016--	\$													
						\$													

1. Material Integrity - Rating of 1 point for each break in the last 20 years.
2. ISO Fire Ratings - A rating of 1 for each 500 gpm that the flow in the watermain is less than the ISO required rating.
3. Number of Service, Valve and Hydrant Replacements is the average of the past 5 years. The average cost for each replacement type is the average cost for 2014.
4. The City typically to add to its FY budgets new projects for the second half of the calendar year with projected next FY projects in July of each year.
PW must complete replacement of its mains when the City replaces its sewer mains. A contingency of 10% is carried to account for this.

Pennichuck Water Works, Inc.
Proposed 2017 WICA Water Main Projects
1/6/2015

PIPE SEGMENT OR PROJECT NAME	CITY/TOWN	MATERIAL	LENGTH (FEET)	PIPE DIAMETER (INCHES)	PROPOSED NEW PIPE DIAMETER (INCHES)	ESTIMATED COST	AGE OF PIPE	PIPE AGE USEFUL LIFE	FULLY DEPRIC	BREAK HISTORY	KEY CUSTOMERS	WATER QUALITY	FIRE PROTECTION FLOWS ²	Work coordination with Sewer or Storm Drains Replacement	Subtotal prior to Geographical Area Points	Geographic Points	TOTAL	Funding Source	Included in 2014-2016 WICA projects filed in Dec 2013
Albee St (Hester to McKean)	NASHUA	CAST IRON UNLINED	1054	8	12	\$ 393,000	1924-1930	70	YES	1					1	1	1		No
Worcester Street (Scripture to Shedd)	NASHUA	CAST IRON UNLINED	399	6	8	\$ 128,000	1888-1924	70	YES	0	1		2		1	2	1		Yes - 2016
Scripture Street (Temple to Worcester)	NASHUA	CEMENT LINED STEEL	458	6	8	\$ 129,000	1924	70	YES	0					0	2	2		No
Shields Avenue (Scripture to Worcester)	NASHUA	CEMENT LINED STEEL	209	2	4	\$ 50,000	1948	80	YES	2	1				1	2	5		Yes - 2016
Proctor Street (Albee to Mulvanity)	NASHUA	CAST IRON UNLINED	206	8	8	\$ 85,000	1929-1940	70	YES	1			1		2	1	3		Yes - 2015
Proctor Street (Mulvanity to end)	NASHUA	CEMENT LINED STEEL	136	2	4	\$ 37,000	1922-1940	80	YES	1		1			2	2	4		Yes - 2015
Mulvanity Street (Proctor to end)	NASHUA	CEMENT LINED STEEL	284	2	4	\$ 67,000	1940-1934	80	YES	0					1	2	3		Yes - 2015
Newbury Street (Underhill to Bowers)	NASHUA	CAST IRON UNLINED	1896	6 & 8	8	\$ 608,000	1888-1940	70	YES	1	1	1			2	2	4		Yes - 2016
Gills Street (Albee to Arlington)	NASHUA	CAST IRON UNLINED	1090	4	6	\$ 364,000	1888	80	YES	1	1				5	3	8	To Be Determined	Yes - 2016
Thomas Street (Blaine to McKean)	NASHUA	CAST IRON UNLINED	429	6	6	\$ 184,000	1892-1908	70	YES	1	1				1	2	3	Combination of future bond and future SRF Funding	Yes - 2015
Barber Street (Burke to King)	NASHUA	CAST IRON UNLINED	603	8	8	\$ 135,000	1892	70	YES	0					0	2	2		No
Williams Street (Albee to Arlington)	NASHUA	CAST IRON UNLINED	1495	6	8	\$ 411,000	1910-1934	70	YES	0					0	1	3		No
McKean Street (Albee to Arlington)	NASHUA	CAST IRON UNLINED	1714	6	8	\$ 478,000	1888	70	YES	2					2	1	5		No
Cherry Street (McKean to end)	NASHUA	CAST IRON UNLINED	236	4	4	\$ 51,000	1926	80	YES	0					0	2	2		No
Copp Street (Gills to Bowers)	NASHUA	CAST IRON UNLINED	399	6	8	\$ 91,000	1907	70	YES	0					0	2	2		No
Gray Street (Gills to Bowers)	NASHUA	CAST IRON UNLINED	358	6	6	\$ 87,000	1907	70	YES	0					0	2	2		No
Arlington Avenue (Gills to end)	NASHUA	CAST IRON UNLINED	200	8	8	\$ 41,000	1922	80	YES	0					0	2	2		No
Spaulding Street (Albee to Bowers)	NASHUA	CAST IRON UNLINED	630	6	8	\$ 244,000	1890-1924	80	YES	0					0	1	3		No
Bowen Street (Burke to Spaulding)	NASHUA	CAST IRON UNLINED	630	4	6	\$ 144,000	1889-1890	80	YES	0					0	2	2		No
Coburn Woods	NASHUA	Polyethylene	585	2	4	\$ 236,000	1969	80	YES	11					11	2	2		No
		Total LF -	13,311	Total -		\$ 3,963,000											31		
Valve Replacements ¹ -		5 @ \$		4,571	=	\$ 22,855													
Service Replacements ² -		23 @ \$		2,944	=	\$ 67,722													
Hydrant Replacements ³ -		6 @ \$		5,562	=	\$ 33,969													
		Planning Contingency ⁴ -			=	\$ 396,300													
		Total Estimated WICA \$\$ in 2015 -			=	\$ 4,483,247													

1. Material Integrity - Rating of 1 point for each break in the last 20 years.
2. ISO Fire Ratings - A rating of 1 for each 500 gpm that the flow in the watermain is less than the ISO required rating.
3. Number of Service, Valve and Hydrant replacements is the average of the past 5 years. The average cost for each replacement types is the average cost for 2014.
4. The City typically adds to its FY budgets new projects for the second half of the calendar year with projected next FY projects in July of each year.
PW must complete replacement of its mains when the City replaces its sewer mains. A contingency of 10% is carried to account for this.

	Actuals		Projections					
	2013	2014	2015	2016	2017			
Plant Additions	\$	3,373,884	\$	5,181,247	\$	5,364,347	\$	4,483,247
Less Accumulated Depreciation For:								
2014 Additions	\$	(27,403)	\$	(54,806)	\$	(54,806)	\$	(54,806)
2015 Additions			\$	(41,843)	\$	(83,687)	\$	(83,687)
2016 Additions					\$	(43,272)	\$	(86,544)
2017 Additions							\$	(36,223)
Net Plant Additions	\$	3,346,481	\$	5,084,598	\$	5,182,582	\$	4,258,210
Pre Tax Rate of Return		5.94%		5.94%		5.94%		5.94%
Revenue Requirement	\$	198,781	\$	302,025	\$	307,845	\$	252,938
Depreciation	\$	54,806	\$	83,687	\$	86,544	\$	72,447
Property Taxes	\$	95,042	\$	145,955	\$	151,114	\$	126,294
Overall Revenue Requirement	\$	348,629	\$	531,667	\$	545,504	\$	451,678
Cumulative Revenue Requirement	\$	181,151	\$	529,779	\$	1,061,446	\$	1,606,950
							\$	2,058,628
Water Revenues per DW 13-130		\$	27,689,214					
Overall Revenue Surcharge Amount (1)	0.67%	1.26%	1.92%	1.97%	1.63%			
Cumulative Revenue Surcharge Amount	0.67%	1.91%	3.83%	5.80%	7.43%			

Calculation of Pre Tax Rate of Return (Based on DW 13-130)

	Weighted Cost	Tax Multiplier	Pre Tax Cost
Debt	5.94%	1.000	5.94%
Equity	0.00%	1.681	0.00%
	5.94%		5.94%

Customer Impact

5/8 inch Meter Charge	\$	20.34	\$	20.34	\$	20.34	\$	20.34
Volumetric Charge	\$	3.30	\$	3.30	\$	3.30	\$	3.30
Average Single Family Residential Usage (CCF)		7.88		7.88		7.88		7.88
Monthly Usage	\$	26.00	\$	26.00	\$	26.00	\$	26.00
Total Month Charge	\$	46.34	\$	46.34	\$	46.34	\$	46.34
Monthly Impact of Surcharge	\$	0.31	\$	0.58	\$	0.89	\$	0.76
Cumulative Monthly Impact of Surcharge	\$	0.31	\$	0.89	\$	1.78	\$	3.45

Note:

(1) The 2013 WICA surcharge, approved in Order 25,661 (DW 13-358) was based on water revenues from prior rate filing (DW 10-091).

PENNICHUCK WATER WORKS, INC.
WICA Surcharge Calculation
DW 15-XXX

Attachment C
Page 2 of 2

2014	Investment			Depreciation Expense		Property Tax Expense	
	Investment	Retirement ¹	Net	Depreciation Rate ²	Depreciation Expense	Mil Rate ³	Property Tax Expense
			Investment				
Mains	\$ 3,235,215	\$ -	\$3,235,215	1.60%	\$ 51,763	28.17	\$ 91,136
Contingency	\$ -	\$ -	\$ -	1.60%	\$ -	28.17	\$ -
Paving	\$ -	\$ -	\$ -	1.57%	\$ -	28.17	\$ -
Hydrants	\$ 33,369	\$ -	\$ 33,369	2.24%	\$ 747	28.17	\$ 940
Services	\$ 82,444	\$ -	\$ 82,444	2.34%	\$ 1,929	28.17	\$ 2,322
Valves	\$ 22,855	\$ -	\$ 22,855	1.60%	\$ 366	28.17	\$ 644
Total	\$ 3,373,884	\$ -	\$3,373,884		\$ 54,806		\$ 95,042

2015	Investment			Depreciation Expense		Property Tax Expense	
	Investment	Retirement ¹	Net	Depreciation Rate ²	Depreciation Expense	Mil Rate ³	Property Tax Expense
			Investment				
Mains	\$ 4,503,600	\$ -	\$4,503,600	1.60%	\$ 72,058	28.17	\$ 126,866
Contingency	\$ 450,360	\$ -	\$ 450,360	1.60%	\$ 7,206	28.17	\$ 12,687
Paving	\$ 77,522	\$ -	\$ 77,522	1.57%	\$ 1,217	28.17	\$ 2,184
Hydrants	\$ 27,808	\$ -	\$ 27,808	2.24%	\$ 623	28.17	\$ 783
Services	\$ 85,388	\$ -	\$ 85,388	2.34%	\$ 1,998	28.17	\$ 2,405
Valves	\$ 36,569	\$ -	\$ 36,569	1.60%	\$ 585	28.17	\$ 1,030
Total	\$ 5,181,247	\$ -	\$5,181,247		\$ 83,687		\$ 145,955

2016	Investment			Depreciation Expense		Property Tax Expense	
	Investment	Retirement ¹	Net	Depreciation Rate ²	Depreciation Expense	Mil Rate ³	Property Tax Expense
			Investment				
Mains	\$ 4,764,000	\$ -	\$4,764,000	1.60%	\$ 76,224	28.17	\$ 134,202
Contingency	\$ 476,400	\$ -	\$ 476,400	1.60%	\$ 7,622	28.17	\$ 13,420
Hydrants	\$ 33,369	\$ -	\$ 33,369	2.24%	\$ 747	28.17	\$ 940
Services	\$ 67,722	\$ -	\$ 67,722	2.34%	\$ 1,585	28.17	\$ 1,908
Valves	\$ 22,855	\$ -	\$ 22,855	1.60%	\$ 366	28.17	\$ 644
Total	\$ 5,364,347	\$ -	\$5,364,347		\$ 86,544		\$ 151,114

2017	Investment			Depreciation Expense		Property Tax Expense	
	Investment	Retirement ¹	Net	Depreciation Rate ²	Depreciation Expense	Mil Rate ³	Property Tax Expense
			Investment				
Mains	\$ 3,963,000	\$ -	\$3,963,000	1.60%	\$ 63,408	28.17	\$ 111,638
Contingency	\$ 396,300	\$ -	\$ 396,300	1.60%	\$ 6,341	28.17	\$ 11,164
Hydrants	\$ 33,369	\$ -	\$ 33,369	2.24%	\$ 747	28.17	\$ 940
Services	\$ 67,722	\$ -	\$ 67,722	2.34%	\$ 1,585	28.17	\$ 1,908
Valves	\$ 22,855	\$ -	\$ 22,855	1.60%	\$ 366	28.17	\$ 644
Total	\$ 4,483,247	\$ -	\$4,483,247		\$ 72,447		\$ 126,294

Notes:

1. Mains as listed are fully depreciated. Actual retirement for Services will be presented with the completed surcharge filing.
2. As per last depreciation study in DW 06-073 utilizing composite rate.
3. Based on Nashua 2014 property rate of \$21.57 and state rate of \$6.60



25 Manchester Street PO Box 1947 Merrimack, NH 03054-1947

603/882-5191, 800/553-5191
Fax 603/913-2362

www.pennichuck.com
customer-service@pennichuck.com

FOR SERVICE AT 1 Water Street, Nashua
ROUTE NUMBER 01
ACCOUNT NUMBER 100123456-12345

METER NUMBER 12345678
FROM 04/01 TO 04/28 DAYS 28
PREVIOUS READING 1231 PRESENT READING 1238 CONSUMPTION 7
NEXT READ DATE 05/26/15

Previous Balance	89.53
Payments since Last Bill	89.53
Adjustments since Last Bill	0.00
Balance Before Current Charges	0.00

New Charges – Actual Read	
PWW Mthly Mtr 5/8"	20.34
PWW Consumption 7 CCF @ 3.30	23.10
WICA Charge	0.83

Current Charges 44.27

New Balance 44.27

Current Charges are due by 06/02/2015.

Online Payment is now available at www.pennichuck.com

****WICA**** - This bill contains a 1.91% Water Infrastructure and Conservation Adjustment (WICA) charge. For further information please refer to the back of your bill.

PLEASE DETACH HERE
AND RETURN LOWER
PORTION WITH YOUR
PAYMENT.

ACCOUNT NUMBER	DIVISION	ROUTE NUMBER	BILL DATE	DUE DATE	TOTAL DUE
100123456-12345	Pennichuck	01	05/08/2015	06/02/2015	44.27



25 Manchester Street PO Box 1947 Merrimack, NH 03054-1947

PLEASE DO NOT FOLD OR STAPLE

ACCOUNT NUMBER	DIVISION	BILL DATE	PAY ON OR BEFORE	TOTAL DUE
100123456-12345	Pennichuck	05/08/2015	06/02/2015	44.27
				AMOUNT ENCLOSED

For Service at: 1 Water Street

JANE DOE
1 WATER STREET
NASHUA, NH 12345

PLEASE CHECK HERE IF YOU ARE
ENROLLING IN DIRECT PAYMENT
AND FILL OUT APPLICATION ON
OTHER SIDE



NHPUC NO. 6 Water
 PENNICHUCK WATER WORKS, INC.

First Revised Page 48
 Superseding Original Page 48

WATER INFRASTRUCTURE AND CONSERVATION ADJUSTMENT

In addition to the net charges provided for in this Tariff, a Water Infrastructure and Conservation Adjustment ("WICA") surcharge of 1.910.67% will apply to all bills issued on or after June 1, 2015.4 ~~for service rendered on or after April 1, 2014.~~

I. General Description

Purpose: To recover the fixed costs (depreciation, property taxes and pre-tax return) of certain Commission-approved non-revenue producing system improvement projects completed and placed in service and to be recorded in the individual accounts, as noted below, between base rate cases. In addition, WICA provides the Company with the resources to accelerate asset replacement for infrastructure for the purpose of improving or protecting water quality and the reliability of service and to comply with evolving regulatory requirements imposed by the Safe Drinking Water Act.

Eligible Property: The WICA-eligible property will consist of the following:

services (account 333), and hydrants (account 335) installed as in-kind (i.e., same size) replacements for customers;

mains and valves (account 331) installed as replacements for existing facilities that have either reached the end of their useful life, are worn out or are in deteriorated condition,

main cleaning and re-lining projects and relocations that are non-reimbursable (account 331);

replacement of pressure reducing valves (accounts 309, 331);

II. Computation of the WICA

Calculation: The ~~initial~~ charge, effective for all bills issued on or after June 1, 2015.4 ~~for service rendered on or after after April 1, 2014,~~ will be calculated to recover the fixed costs of eligible plant additions ~~that have not previously been~~ reflected in the Company's rate base and ~~will have been~~ placed in service between January 1, 2013 and December 31, 2014.3. Thereafter, the WICA will be updated on an annual basis to reflect eligible plant additions placed in service during the twelve month period ending ~~fiveour~~

Issued: June 1, 2015 ~~May 28, 2014~~

Issued by: _____
 Donald L. Ware

Effective: June 1, 2015.4

Title: Chief Operating Officer

months prior to the effective date of each WICA update, which will be on May 1. Thus, changes in the WICA rate will occur as follows:

| Issued: June 1, 2015~~May 28, 2014~~

Issued by: _____
Donald L. Ware

| Effective: June 1, 2015~~4~~

Title: Chief Operating Officer

Effective Date
Of WICA Change
~~June~~May 1

Date To Which WICA Eligible
Plant Additions Reflected
December 31

The fixed costs of eligible infrastructure system improvement projects will consist of depreciation, property taxes and pre-tax return, calculated as follows:

Depreciation: The depreciation expense will be calculated by applying the depreciation rates employed in the Company's last base rate case for the plant accounts to the original cost of WICA-eligible property minus the corresponding retirement unit recorded.

Property Taxes: For the first year that a WICA for any particular project is in effect, the property tax expense will reflect an estimate of the tax expense for such projects based on the tax rate then in effect. If such property taxes will be due for only a portion of the calendar year, then the WICA for the first year shall reflect only the property taxes projected to be paid. For the second and subsequent years that a WICA for those projects is in effect, the WICA shall be determined using the taxes due and owing for such projects based on the tax bill for a full tax year. The WICA shall not be adjusted in subsequent years, regardless of any change in the taxes originally assessed.

Pre-tax return: The pre-tax return will be calculated using the state and federal income tax rates. The cost of equity and debt will be the rates approved in the Company's last base rate case, DW 10-091, or a subsequent docket.

WICA Surcharge Amount: The charge will be expressed as a percentage carried to four decimal places and will be applied to the effective portion of the total amount billed to each customer under the Company's otherwise applicable rates and charges.

Formula: The formula for calculation of the WICA surcharge is as follows:

$$\text{WICA} = \frac{(\text{ISI} \times \text{PTRR}) + \text{Dep} + \text{PT}}{\text{BRWR}}$$

Where:

ISI= the original cost to the Company of eligible infrastructure system improvement projects.

Issued: ~~June 1, 2015~~May 28, 2014

Issued by: _____
Donald L. Ware

Effective: June 1, 201~~5~~4

Title: Chief Operating Officer

PTRR= the pre-tax return rate applicable to eligible infrastructure system improvement projects.

Dep= annual depreciation expense related to eligible infrastructure system improvement projects.

PT= annual property taxes related to eligible infrastructure system improvement projects.

BRWR= base retail water revenues as approved by the Commission in the Company's last rate proceeding, DW 10-091, or a subsequent docket.

Annual updates: Supporting data for each annual update will be filed with the Commission and the Office of Consumer Advocate ninety (90) days prior to the effective date of the update.

III. Safeguards

Cap: The amount of the WICA applied between general rate case filings shall not exceed seven and one-half percent (7.5%) of the Company's annual retail water revenues as approved in its most recent rate filing, and shall not exceed two percent (2%) of such revenues for any twelve-month period.

Audits: The WICA will be subject to audit prior to the determination by the Commission.

New Base Rates: The WICA charge will be reset at zero as of the effective date of new base rates that provide for prospective recovery of the annual costs that had theretofore been recovered under the WICA. Thereafter, only the fixed costs of new eligible plant additions, that have not previously been reflected in the Company's rate base, would be reflected in the annual updates of the WICA.

Customer Notice: At least thirty (30) days in advance of a WICA filing, the Company will inform Customers of the filing by including a message on bills. Customers shall be notified of changes in the WICA by including appropriate information on the first

Issued: ~~June 1, 2015~~ ~~May 28, 2014~~

Issued by: _____
Donald L. Ware

Effective: June 1, 201~~5~~⁴

Title: Chief Operating Officer

bill they receive following any change.

NHPUC NO. 6 Water
PENNICHUCK WATER WORKS, INC

Original Page 51

Notice of Project Substitution: If, after the Company has received Commission approval for Year 1 projects, because of changed circumstances or significant new information the Company plans to undertake projects in Year 1 that were not included on the list of approved WICA projects for that year or it has decided not to proceed with one or more projects that were included on the Commission-approved list, it shall promptly notify the Commission and all parties to the proceeding in which the list of WICA projects was approved that the Company plans to add to or delete projects and the reason for the proposed changes.

Issued: June 1, 2015~~May 28, 2014~~

Issued by: _____
Donald L. Ware

Effective: June 1, 2015~~4~~

Title: Chief Operating Officer

Pennichuck Water Works, Inc.
Proposed 2014 WICA Water Main Projects

PIPE SEGEMENT OR PROJECT NAME	CITY/TOWN	MATERIAL	LENGTH (FEET)	EXISTING PIPE		ESTIMATED COST	AGE OF PPE	PIPE AGE		BREAK HISTORY	KEY CUSTOMERS	WATER QUALITY	FIRE PROTECTION FLOWS ²	Work coordination with Sewer or Storm Drain Replacement	Subtotal prior to Geographical Area		GEOGRAPHICAL PROXIMITY	TOTAL
				DIAMETER (INCHES)				USEFUL LIFE	FULLY DEPREC						Points			
Baldwin St - Bridge/RR Crossing	NASHUA	UNLINED CAST IRON	100	8	\$	84,000.00	1938	70	YES	1				5	6	2	3	
Baldwin St	NASHUA	UNLINED CAST IRON	1,298	8	\$	280,000.00	1938	70	YES	1				5	6	2	3	
Park St	NASHUA	UNLINED CAST IRON	312	6	\$	66,000.00	1890	70	YES					5	5		5	
Court St	NASHUA	UNLINED CAST IRON	435	8	\$	47,000.00	1931	70	YES					5	5	2	7	
Faundry Street	AMHERST	TRANSITE	1,375	6	\$	206,000.00	1950	70	No					5	5	2	7	
Main Street (Bridge Crossing)	AMHERST	TRANSITE	150	6	\$	70,000.00	1950	70	No					5	5	2	7	
Boston Post Road	AMHERST	TRANSITE	540	5	\$	125,000.00	1950	70	No	1				5	6	2	8	
Cross St	AMHERST	TRANSITE	446	4	\$	66,000.00	1950	40	YES					5	5	2	7	
Burke St	NASHUA	UNLINED CAST IRON	2,800	5	\$	469,000.00	1892-1906	70	YES	1		2		5	8		8	
Eldrige St	NASHUA	UNLINED CAST IRON	374	6	\$	148,000.00	1888	70	YES					5	5		5	
Lovell St	NASHUA	UNLINED CAST IRON	1,395	6	\$	250,000.00	1892-1945	70	YES	1	1	3			5		5	
Miami St	NASHUA	STEEL	427	2	\$	100,000.00	1927	40	YES	1			3		4	2	6	
		Total LF -	9,552	Total -	\$	1,903,000.00												
Paving					\$	100,000.00												
Valve Replacements					\$	30,000.00												
Service Replacements ³ -					\$	50,000.00												
Hydrant Replacements					\$	22,800.00												
		Planning Contingency ⁴ -			\$	380,600.00												
		Total Estimated WICA \$\$\$ In 2013 -			\$	2,486,400.00												

1. Material Integrity - Rating of 1 point for each break in the last 20 years
 2. ISO Fire Ratings - A rating of 1 for each 500 gpm that the flow in the watermain is less than the ISO required rating.
 3. Number of Service replacements is the average of the past 5 years. The average cost of a service replacement is the average cost over the past 4 years.
 4. The City has added to its initial sewer replacement in previous years. PWW must complete replacement of its mains when the City replaces its sewer mains. A contingency of 20% is carried to account for this.