	A B	C D	E F C	G Н	I J	K L	M N	O P Q
1	•			DW 17-xxx	•			Schedule 1
2				IUCK WATER WO				
3			SUMMARY SCI FOR COMPLETED	HEDULE OF WICA		16		
5				CONSTRUCTION				
6			and I ROULCTED	CONSTRUCTION	112/113/2017-2019			
7								
8	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
9								
10	2013 1			11 4 4 (DW) 1	2.250)	,		. 15
11	2013		Actua	l Investment (DW 1	3-338)		Depreciati	ion Expense
13						!	1	ļ
14		Gross	Cost of			Net	Depreciation	Depreciation
15		Investment	Removal	Book Cost	Retirement	Investment	Rate 7	Expense
16				(2) - (3)		(4) - (5)		(6) x (7)
17	Mains	\$ 1,563,037	\$ (156,234)	\$ 1,406,803	\$ (14,422)	\$ 1,392,381	1.60%	\$ 22,278
18 19	Contingency Paving	28,395	(2,839)	25,556	-	25,556	1.60% 1.57%	401
20	Hydrants	28,393 59,164	(5,063)	54,101	(2,293)	51,808	2.24%	1,160
21	Services	241,199	(22,980)	218,219	(6,924)	211,295		4,944 i
22	Valves	69,084	(6,908)	62,176	(2,174)	60,002	1.60%	960 1
23	Total	\$ 1,960,879	\$ (194,024)	\$ 1,766,855	\$ (25,813)	\$ 1,741,042	ı	\$ 29,744
24								
25 26								
27								
28	2014 2		Actua	l Investment (DW 1	5-043)	I	Depreciati	ion Expense
29					,	l I		
30						i		i İ
31		Gross	Cost of			Net	Depreciation	Depreciation
32		Investment	Removal ⁸	Book Cost	Retirement	Investment	Rate ⁷	Expense
33	Mains	\$ 2,744,191	(273,203)	(2) - (3) \$ 2,470,988	\$ -	(4) - (5) \$ 2,470,988	1.60%	(6) x (7) \$ 39,536
35	Contingency	\$ 2,744,191	(273,203)	\$ 2,470,900		\$ 2,470,966 	1.60%	\$ 39,330
36	Paving	-	-	-	-	- i	1.570/	-
37	Hydrants	35,249	(3,525)	31,724	(215)	31,509 i		706 i
38	Services	82,444	(8,244)	74,200	(1)	74,199		1,736
39	Valves	10,031	(1,003)	9,028	(538)	8,490	1.60%	136
40	Total	\$ 2,871,915	\$ (285,975)	\$ 2,585,940	\$ (754)	\$ 2,585,186	i.	\$ 42,114
41								
43								
44								
45	2015 ³		Actua	al Investment (DW1	6-220)	, 	Depreciati	ion Expense
46						i	1	i
47 48		Gross	Cost of			Net	Depreciation	Depreciation
		Investment	Removal 8	Book Cost	Retirement	Investment	Rate 7	Expense
49				(2) - (3)	110th Chicht	(4) - (5)	1	(6) x (7)
49 50		investment		(2) - (3)				
50 51	Mains	\$ 3,093,451	\$ (309,345)	\$ 2,784,106	\$ (38,121)	\$ 2,745,985	1.60%	\$ 43,936
50 51 52	Contingency	\$ 3,093,451	\$ (309,345)	\$ 2,784,106 \$ -	\$ (38,121)	· - i	1.60%	\$ 43,936 \$ -
50 51 52 53	Contingency Paving	\$ 3,093,451 39,808	\$ (309,345) (3,981)	\$ 2,784,106 \$ - \$ 35,827	-	- i 35,827 i	1.60% 1.57%	\$ 43,936 \$ - 1 \$ 562 1
50 51 52 53 54	Contingency Paving Hydrants	\$ 3,093,451 39,808 76,976	\$ (309,345) - (3,981) (7,698)	\$ 2,784,106 \$ - \$ 35,827 \$ 69,278	(9,516)	35,827 35,762	1.60% 1.57% 2.24%	\$ 43,936 \$ -1 \$ 562 \$ 1,339
50 51 52 53 54 55	Contingency Paving Hydrants Services	\$ 3,093,451 	\$ (309,345) - (3,981) (7,698) (7,650)	\$ 2,784,106 \$ - \$ 35,827 \$ 69,278 \$ 68,846	(9,516) (2,627)	35,827 35,762 59,762 66,219	1.60% 1.57% 2.24% 2.34%	\$ 43,936 \$ - \$ 562 \$ 1,339 \$ 1,550
50 51 52 53 54	Contingency Paving Hydrants	\$ 3,093,451 39,808 76,976	\$ (309,345) - (3,981) (7,698)	\$ 2,784,106 \$ - \$ 35,827 \$ 69,278	(9,516)	35,827 35,762	1.60% 1.57% 2.24%	\$ 43,936 \$ -1 \$ 562 \$ 1,339

	A B	C D	Е	F (G Н	ı ı	K L	M N	O P Q
1	1 2	-			DW 17-xxx	- ı	<u> </u>		Schedule 1
2				PENNICE	IUCK WATER WO	RKS, INC.			
3			SUN	MARY SCH	IEDULE OF WICA	INVESTMENTS			
4					CONSTRUCTION				
5			and PI	ROJECTED	CONSTRUCTION	YEARS 2017- 2019)		
6									
7									
8	(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)
9									
60									
61	*****						ı		1
62	2016 4				Actual Investment		i	Depreciati	ion Expense
63							i		į
64		Gross		Cost of			Net 1	Depreciation	Depreciation
66		Investment		emoval 8	Book Cost	Retirement	Investment	Rate 7	Expense
67		investment	K	emovai	(2) + (3)	Retirement	(4) - (5)	Kate	(6) x (7)
68	Mains	\$ 3,839,715	\$	(383,972)	\$ 3,455,744	\$ -	\$ 3,455,744	1.60%	\$ 55,292
69	Contingency	ψ 5,057,115 -	Ψ	(303,712)	Ψ J,TJJ,/T4		ψ ^{3,733,744}	1.60%	" " " " "
70	Paving	360,997		(36,100)	324,897	_	324,897 ₁	1.57%	5,101
71	Hydrants	59,796		(5,980)	53,816	_	53,816	2.24%	1,205
72	Services	159,492		(15,949)	143,543	-	143,543 1	2.34%	3,359 1
73	Valves	20,628	_	(2,063)	18,565	_	18,565	1.60%	297 1
74	Total	\$ 4,440,628	\$	(444,063)	\$ 3,996,565	\$ -	\$ 3,996,565		\$ 65,254
75			-						
76									
77									
78	_								•
79	2017 5]	Projected Investmen	t	! !	Depreciati	ion Expense
80							i		i
81		_					I		I
82		Cross	•	Cost of					
83		Gross					Net	Depreciation	Depreciation
		Investment		emoval ⁸	Book Cost	Retirement	Investment	Depreciation Rate ⁷	Expense
84		Investment	Re	emoval ⁸	(2) - (3)		Investment (4) - (5)	Rate 7	Expense (6) x (7)
84 85	Mains	Investment \$ 3,153,100		emoval ⁸ (315,310)	(2) - (3) \$ 2,837,790	Retirement -	Investment (4) - (5)	Rate 7	Expense (6) x (7) 45,405
84 85 86	Contingency	\$ 3,153,100 315,310	Re	(315,310) (31,531)	(2) - (3) \$ 2,837,790 283,779		Investment (4) - (5)	Rate 7 1.60% 1.60%	Expense (6) x (7) 45,405 4,540 4,540
84 85 86 87	Contingency Paving	\$ 3,153,100 315,310 1,081,750	Re	(315,310) (31,531) (108,175)	(2) - (3) \$ 2,837,790 283,779 973,575		Investment (4) - (5)	Rate ⁷ 1.60% 1.60% 1.57%	Expense (6) x (7) 45,405 \$ 4,540 \$ 15,285
84 85 86 87 88	Contingency Paving Hydrants	\$ 3,153,100 315,310 1,081,750 45,480	Re	(315,310) (31,531) (108,175) (4,548)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932		Investment (4) - (5) \$ 2,837,790 283,779 973,575 40,932	Rate 7 1.60% 1.60% 1.57% 2.24%	Expense (6) x (7) 45,405 \$ 45,405 \$ 15,285 \$ 917
84 85 86 87 88 89	Contingency Paving Hydrants Services	\$ 3,153,100 315,310 1,081,750 45,480 91,612	Re	(315,310) (31,531) (108,175) (4,548) (9,161)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451		Investment (4) - (5) \$ 2,837,790 283,779 973,575 40,932 82,451	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) 45,405 \$ 45,405 \$ 15,285 \$ 917 \$ 1,929
84 85 86 87 88	Contingency Paving Hydrants	\$ 3,153,100 315,310 1,081,750 45,480 91,612 21,534	Re	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381		Investment (4) - (5) \$ 2,837,790 283,779 973,575 40,932	Rate 7 1.60% 1.60% 1.57% 2.24%	Expense (6) x (7) 45,405 \$ 45,405 \$ 15,285 \$ 917
84 85 86 87 88 89 90	Contingency Paving Hydrants Services Valves	\$ 3,153,100 315,310 1,081,750 45,480 91,612	Re	(315,310) (31,531) (108,175) (4,548) (9,161)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451		Investment (4) - (5) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 1,929 \$ 310
84 85 86 87 88 89 90 91	Contingency Paving Hydrants Services Valves	\$ 3,153,100 315,310 1,081,750 45,480 91,612 21,534	Re	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381		Investment (4) - (5) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 1,929 \$ 310
84 85 86 87 88 89 90	Contingency Paving Hydrants Services Valves	\$ 3,153,100 315,310 1,081,750 45,480 91,612 21,534	Re	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381		Investment (4) - (5) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 1,929 \$ 310
84 85 86 87 88 89 90 91 92 93	Contingency Paving Hydrants Services Valves Total	\$ 3,153,100 315,310 1,081,750 45,480 91,612 21,534	Re	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381		Investment (4) - (5) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34%	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 1,929 \$ 310
84 85 86 87 88 89 90 91 92 93 94 95 96	Contingency Paving Hydrants Services Valves Total	\$ 3,153,100 315,310 1,081,750 45,480 91,612 21,534	Re	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381	\$ - - - - - - - \$ -	Investment (4) - (5) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60%	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 1,929 \$ 310
84 85 86 87 88 89 90 91 92 93 94 95 96	Contingency Paving Hydrants Services Valves	\$ 3,153,100 315,310 1,081,750 45,480 91,612 21,534	Re	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907	\$ - - - - - - - \$ -	Investment (4) - (5) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60%	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 1,929 \$ 310 \$ 68,387
84 85 86 87 88 89 90 91 92 93 94 95 96 97	Contingency Paving Hydrants Services Valves Total	Investment \$ 3,153,100 315,310 1,081,750 45,480 91,612 21,534 \$ 4,708,786	\$ \$	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907	\$ - - - - - - - \$ -	Investment (4) - (5) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciati	Expense (6) x (7)
84 85 86 87 88 89 90 91 92 93 94 95 96 97	Contingency Paving Hydrants Services Valves Total	Investment \$ 3,153,100 315,310 1,081,750 45,480 91,612 21,534 \$ 4,708,786	\$	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907	\$ - - - - - - - \$ -	Investment (4) - (5) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation	Expense (6) x (7)
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	Contingency Paving Hydrants Services Valves Total	Investment \$ 3,153,100 315,310 1,081,750 45,480 91,612 21,534 \$ 4,708,786	\$	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907 Projected Investment	\$ - - - - - - - \$ -	Investment (4) - (5)	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciati	Expense (6) x (7)
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101	Contingency Paving Hydrants Services Valves Total	\$ 3,153,100 315,310 1,081,750 45,480 91,612 21,534 \$ 4,708,786	\$ \$	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907 Projected Investment	\$	Investment (4) - (5)	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation Rate 7	Expense (6) x (7)
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102	Contingency Paving Hydrants Services Valves Total 2018 6	Investment \$ 3,153,100 315,310 1,081,750 45,480 91,612 21,534 \$ 4,708,786 Gross Investment \$ 4,422,301	\$	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879) (442,230)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907 Projected Investment Book Cost (2) - (3) \$ 3,980,071	\$	Investment (4) - (5)	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation Rate 7 1.60%	Expense (6) x (7)
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103	Contingency Paving Hydrants Services Valves Total 2018 6 Mains Contingency	Sample	\$ \$	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879) (442,230) (442,230)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907 Projected Investment (2) - (3) \$ 3,980,071 398,007	\$	Investment (4) - (5)	Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60%	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 1,929 \$ 310 \$ 68,387 Depreciation Expense (6) x (7) \$ 63,681 \$ 6,368
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104	Contingency Paving Hydrants Services Valves Total 2018 6 Mains Contingency Paving	Sample	\$ \$	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879) (440,879) (442,230) (44,223) (25,000)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907 Projected Investment Book Cost (2) - (3) \$ 3,980,071 398,007 225,000	\$	Net	1.60% 1.60% 1.57% 2.24% 2.34% 1.60%	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 1,929 \$ 310 \$ 68,387 \$
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105	Contingency Paving Hydrants Services Valves Total 2018 6 Mains Contingency Paving Hydrants	Sample	\$ \$	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879) (470,879) (442,230) (442,230) (44,223) (25,000) (4,548)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907 Projected Investment (2) - (3) \$ 3,980,071 398,007 225,000 40,932	\$	Investment (4) - (5)	Rate 7	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 310 \$ 68,387 \$ 63,681 \$ 63,533 \$ 917
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	Contingency Paving Hydrants Services Valves Total 2018 6 Mains Contingency Paving Hydrants Services	Salar Salar Salar	\$ \$	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879) (470,879) (442,230) (44,223) (25,000) (4,548) (9,161)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907 Projected Investment (2) - (3) \$ 3,980,071 398,007 225,000 40,932 82,451	\$	Investment (4) - (5)	Depreciation Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation Rate 7 1.60% 1.57% 2.24% 2.34% 2.34%	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 310 \$ 68,387 Con Expense (6) x (7) \$ 63,681 \$ 6,368 \$ 3,533 \$ 917 \$ 1,929
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107	Contingency Paving Hydrants Services Valves Total 2018 6 Mains Contingency Paving Hydrants Services Valves	Salar Salar Salar	\$ \$ \$	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879) (442,230) (44,223) (25,000) (4,548) (9,161) (2,153)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907 Book Cost (2) - (3) \$ 3,980,071 398,007 225,000 40,932 82,451 19,381	\$	Investment (4) - (5) 283,7,790 283,779 973,575 40,932 82,451 19,381	Rate 7	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 310 \$ 68,387 Con Expense (6) x (7) \$ 63,681 \$ 6,368 \$ 3,533 \$ 917 \$ 1,929
84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	Contingency Paving Hydrants Services Valves Total 2018 6 Mains Contingency Paving Hydrants Services	Salar Salar Salar	\$ \$	(315,310) (31,531) (108,175) (4,548) (9,161) (2,153) (470,879) (470,879) (442,230) (44,223) (25,000) (4,548) (9,161)	(2) - (3) \$ 2,837,790 283,779 973,575 40,932 82,451 19,381 \$ 4,237,907 Projected Investment (2) - (3) \$ 3,980,071 398,007 225,000 40,932 82,451	\$	Investment (4) - (5)	Depreciation Rate 7 1.60% 1.60% 1.57% 2.24% 2.34% 1.60% Depreciation Rate 7 1.60% 1.57% 2.24% 2.34% 2.34%	Expense (6) x (7) \$ 45,405 \$ 4,540 \$ 15,285 \$ 917 \$ 310 \$ 68,387 Con Expense (6) x (7) \$ 63,681 \$ 6,368 \$ 3,533 \$ 917 \$ 1,929

	A B C	C D	Е	F C		Н	I	J	K	L	M	N	О	P	Q	R
1 2 3 4 5 6			FOR CO	MARY SCH MPLETED	UCK EDUI CON	W 17-xxx WATER WO LE OF WICA STRUCTION	A INVÉS N YEAF	STMENTS RS 2013 - 2	016				Sche	edule 1		
7 8 9	(1)	(2)		(3)		(4)		(5)		(6)		(7)		(8)		
111 112 113	2019 6			I	Projec	ted Investme	ent				 	Deprecia	tion Exp	pense		
114 115 116 117		Gross Investment		ost of moval ⁸		Book Cost (2) - (3)	Re	etirement		Net Investment (4) - (5)	 	Depreciation Rate ⁷		epreciation Expense (6) x (7)		
118 119 120 121 122 123	Mains Contingency Paving Hydrants Services Valves	\$ 4,491,713 449,171 250,000 45,480 91,612 21,534	\$	(449,171) (44,917) (25,000) (4,548) (9,161) (2,153)	\$	4,042,542 404,254 225,000 40,932 82,451 19,381	\$	- - - -	\$			1.60% 1.60% 1.57% 2.24% 2.34% 1.60%	\$ \$ \$ \$ \$	64,683 6,468 3,533 917 1,929 310	3 i 3 i 7 i 9 i	
124 125 126 127		\$ 5,349,510 "s WICA Filing in D			\$	4,814,559	\$			4,814,559) ! =		\$	77,838		
128 129 130 131	 Based on PWW Based on Attack 	"s WICA Filing in D "s WICA Filing in D hment B, Page 1 of 4 hment B, Page 2 of 4	W 16-220 I.													
132 133 134 135	 Based on Attack The Depreciation 	hment B, Page 3 of 4 hment B, Page 4 of 4 on Rates are based or moval for 2014 Main	l. n the depr	reciation stud	y appr e Fina	oved in DW (06-073. t in DW	15-043 date	ed 3/19	/15. All other	Cost of	f Removal				
136 137 138 139		15-2018 are based up														

	A B	_	С	D	E	F	G I	I	<u>I</u> .	J	K
1			-XXX	INC					•	Sch	edule 2a
3	PENNICHUCK W PROJECTED CALCULATIO				CHARGE						
4	FOR COMPLETED CONST										
5											
7											
8					Ac	tual				_	
9	_		2012		2011		2015		2016		TD
10	Plant in Service:		2013		2014		2015		2016		Total
12	Gross Plant Investment (Att A; Sch 1; Col (2))	\$	1,960,879	\$	2,871,915	\$	3,297,289	\$	4,440,628	\$	12,570,711
13	Less: Cost of Removal (Att A; Sch 1; Col (3))		(194,024)		(285,975)		(329,729)	\$	(444,063)	\$	(1,253,791)
	Less: Plant Retirements (Att A; Sch 1; Col (5)) Net Plant Investment		(25,813) 1,741,042		2,585,186		(53,259) 2,914,301	\$	3,996,565	_\$_	(79,826) 11,237,094
16	evet i fant investment		1,741,042		2,363,160		2,714,501		3,990,303		11,237,094
	Accumulated Depreciation:										
	Depreciation Expense ¹ (Att A; Sch 1; Col (8)): 2013 Net Plant Investment		14,872		29,744		29,744		29,744		104,105
-	2014 Net Plant Investment		14,672		29,744		42,114		42,114		104,103
_	2015 Net Plant Investment		-		,		23,745		47,491		71,236
-	2016 Net Plant Investment		- 140=2				- 05.000		32,627		32,627
	Total Depreciation Expense Less: Cost of Removal (Att A; Sch 1; Col (3))		14,872 (194,024)		50,801 (285,975)		95,603 (329,729)		151,976 (444,063)		313,252 (1,253,791)
	Less: Plant Retirements (Att A; Sch 1; Col (5))		(25,813)		(754)		(53,259)			_	(79,826)
	Net Accumulated Depreciation		(204,965)		(235,928)		(287,385)		(292,087)		(1,020,366)
27	Net Plant in Service	2	1,946,007	\$	2,821,114	\$	3,201,686	\$	4,288,652	S	12,257,459
-	Pre-tax Rate of Return ²	Ψ	1,7 10,007	Ψ	2,021,117	Ψ		x ===	1,200,002	Ψ	6.17%
30	Return on Investment						•			\$	756,076
31	D (T)		000.15		000						25= 255
32	Property Tax Expense ³ @		\$29.13	per \$1	,000						357,060
34	Annual Depreciation Expense (Att A; Sch 1; Col (8)):										
35	2013 Net Plant Investment										29,744
	2014Net Plant Investment 2015 Net Plant Investment										42,114 47,491
-	2015 Net Plant Investment 2016 NetPlant Investment										65,254
39	Total Annual Depreciation Expense										184,602
40	2017 Cumulativa Payanua Paguiranas									6	1 207 720
	2017 Cumulative Revenue Requirement Less: 2016 Cumulative Revenue Requirement ⁴									\$ \$	1,297,738 (838,716)
	2017 Revenue Requirement									\$	459,022
44											-
45	Water Revenues per DW 13-130 ⁵									\$	27,689,214
46											
-	2017 Revenue Surcharge %										1.66%
49	2017 Cumulative Revenue Surcharge %										4.69%
50										_	
51	Customer Impact:										
	5/8 Inch Meter Monthly Charge									\$	20.34
54	Volumetric Charge									\$	3.30
55	Average Single Family Residential Usage (CCF) Average Monthly Usage Charge									\$	8.58 28.31
	Total Average Monthly Charge									\$	48.65
58											
59	Average Monthly \$ Impact per Customer of 2017 Surcharge									\$	0.81
60	Average Monthly \$ Impact per Customer of 2017 Cumulative Surcharge									\$	2.28
62	Notes:									_	
63	The half-year convention for depreciation expense is employed whereby	one-	-half of the an	nual de	preciation						
64	expense is recorded in the first and last year of an asset's service life.	XX7 :	12 120								
65	² Calculation of Pre-Tax Rate of Return (Based on PWW's Rate Filing in D		13-130) eighted Cost	Tav	Multiplier	p,	re Tax Cost				
67	Debt	,,,	5.59%	14/	1.000		5.59%				
68	Equity _		0.35%		1.656		0.58%				
69 70	³ City of Nashua 2016 Mill Rate of \$22.53 and State Utility Property Tax F	2 ato	5.94% of \$6.60				6.17%				
71	WICA Revenue Requirement approved in DW 16-220 by Commission O			5/09/16)						
72	⁵ Base rate revenue requirement approved in DW 13-130 by Commission C										
73	⁶ 2017 WICA surcharge will be on top of requested PWW permanent rate i	ncre	ease sought in	DW16	-806.						
74	WICA surcharge for projects completed in 2013, 2014, and 2015 will be a	elim	inated as they	are par	rt of the						
75	requested permanent rate increase sought in DW16-806										

	A B	С	D	E	F	G H	I	I J	r	K I	L	M
1	DW 1									5	Sched	ule 2b
3	PENNICHUCK WA' PROJECTED CALCULATION		,									
4	FOR COMPLETED CONSTR											
5	and PROJECTED CONS											
6												
7 8				A	41				D	4 . 3		
9	-			AC	tual				Pro	jected		
10		2013		2014		2015		2016		2017		Total
_	Plant in Service:											
	Gross Plant Investment (Att A; Sch 1; Col (2)) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,960,879	\$	2,871,915	\$	3,297,289	\$	4,440,628	\$	4,708,786	\$	17,279,497
	Less: Cost of Removal (Att A; Sch 1; Col (3)) Less: Plant Retirements (Att A; Sch 1; Col (5))	(194,024) (25,813)		(285,975) (754)		(329,729) (53,259)		(444,063)	\$ \$	(470,879)	\$ \$	(1,724,670) (79,826)
	Net Plant Investment	1,741,042		2,585,186		2,914,301		3,996,565	Ψ	4,237,907	Ψ	15,475,001
16												
	Accumulated Depreciation:											
	Depreciation Expense ¹ (Att A; Sch 1; Col (8)): 2013 Net Plant Investment	14,872		29,744		29,744		29,744		29,744		133,848
	2014 Net Plant Investment	14,672		21,057		42,114		42,114		42,114		147,398
	2015 Net Plant Investment	-		-		23,745		47,491		47,491		118,726
_	2016 Net Plant Investment	-		-		-		32,627		65,254		97,881
	2017Net Plant Investment Total Depreciation Expense	14,872		50,801		95,603		151.975		34,193 218,796		34,193 532,047
25	Less: Cost of Removal (Att A; Sch 1; Col (3))	(194,024)		(285,975)		(329,729)		(444,063)		(470,879)		(1,724,670)
	Less: Plant Retirements (Att A; Sch 1; Col (5))	(25,813)	_	(754)	_	(53,259)		-		<u> </u>		(79,826)
27	Net Accumulated Depreciation	(204,965)		(235,928)		(287,385)		(292,087)		(252,083)		(1,272,449)
28	Net Plant in Service \$	1,946,007	e	2,821,114	\$	3,201,686	\$	4,288,653	\$	4,489,990	\$	16,747,450
_	Pre-tax Rate of Return ²	1,940,007	\$	2,821,114	•	3,201,080	<u> </u>	4,200,033 X	_	4,469,990	Þ	6.17%
	Return on Investment							Х			-\$	1,033,032
32												,,
	Property Tax Expense ³	\$29.13	per \$	1,000								487,853
34	A											
	Annual Depreciation Expense (Att A; Sch 1; Col (8)): 2013 Net Plant Investment											29,744
	2014 Net Plant Investment											42,114
_	2015 Net Plant Investment											47,491
_	2016 Net Plant Investment											65,254
40	2017 Net Plant Investment Total Annual Depreciation Expense											68,387 252,989
42	Total Allitual Depreciation Expense											232,969
43	2018 Cumulative Revenue Requirement										\$	1,773,874
	Less: 2017 Cumulative Revenue Requirement ⁴										_	(1,297,738)
	2018 Revenue Requirement										\$	476,136
46	Water Revenues per DW 13-130 ⁵										©.	27,689,214
48	water revenues per DW 13-130										- J	27,009,214
49												
50	2018 Revenue Surcharge %											1.72%
51	2018 Cumulative Revenue Surcharge %											6.41%
52												
53	Customer Impact:											
	5/8 Inch Meter Monthly Charge										\$	20.34
56	Volumetric Charge										\$	3.30
	Average Single Family Residential Usage (CCF)										_	8.58
	Average Monthly Usage Charge Total Average Monthly Charge										\$	28.31 48.65
60	Town Protugo Pronunty Chargo										φ	40.03
61	Average Monthly \$ Impact per Customer of 2018 Surcharge										_\$	0.84
62	Average Monthly \$ Impact per Customer of 2018 Cumulative Surcharge										\$	3.12
63	N											
64	Notes: The helf year convention for depreciation expense is employed whereby or	aa half af tha -	nnval -	lanragistics								
66	The half-year convention for depreciation expense is employed whereby or expense is recorded in the first and last year of an asset's service life.	ic-naii oi the a	ınıudi (сріссіаноп								
67	² Calculation of Pre-Tax Rate of Return (Based on PWW's Rate Filing in DV	V 13-130)										
68		Veighted Cost	Ta	x Multiplier	P	Pre Tax Cost						
69	Debt	5.59%		1.000		5.59%						
70	Equity	0.35% 5.94%		1.656	_	0.58% 6.17%						
72	3 City of Nashua 2016 Mill Rate of \$22.53 and State Utility Property Tax Ra					0.1770						
73	⁴ Attachment A; Schedule 2a											
74	⁵ Base rate revenue requirement approved in DW 13-130 by Commission Or	der No. 25,693	(7/15	/14).								

A	В	С	D	Е	F	G I	Н	I	J	K	L	M I	N	0
1			OW 17		INC							- :	Sched	ule 2c
$\frac{2}{3}$		ENNICHUCK D CALCULAT				RCHARGE								
4		PLETED CON												
5	and PROJ	ECTED CONS	STRU	CTION YEAR	RS 201	17 - 2018								
6 7														
8				Ac	tual					Proi	ected			
9	_													
10		2013		2014		2015		2016		2017		2018		Total
11 Plant Investment: 12 Gross Plant Investment (Att A; Sch 1; Col (2)		1,960,879	\$	2,871,915	\$	3,297,289	\$	4,440,628	\$	4,708,786	\$	5,273,157	\$	22,552,654
13 Less: Cost of Removal (Att A; Sch 1; Col (3)		(194,024)		(285,975)	Ψ	(329,729)	Ψ	(444,063)	Ψ	(470,879)	\$	(527,316)	\$	(2,251,985
Less: Plant Retirements (Att A; Sch 1; Col (5		(25,813)		(754)		(53,259)		<u> </u>			\$		\$	(79,820
Net Plant Investment	_	1,741,042		2,585,186		2,914,301		3,996,565		4,237,907		4,745,841		20,220,842
17 Accumulated Depreciation:														
Depreciation Expense ¹ (Att A; Sch 1; Col (8))):													
2013 Net Plant Investment 20 2014 Net Plant Investment		14,872		29,744		29,744 42,114		29,744 42,114		29,744 42,114		29,744 42,114		163,59
2014 Net Plant Investment 21 2015 Net Plant Investment		-		21,057		23,745		47,491		47,491		42,114 47,491		189,51 166,21
22 2016 Net Plant Investment		-		-				32,627		65,254		65,254		163,13
23 2017 Net Plant Investment		-		-		-		-		34,193		68,387		102,580
24 2018 Net Plant Investment Total Depreciation Expense		14,872		50,801	_	95,603		151,976	_	218,796		38,369 291,358		38,36 823,40
Less: Cost of Removal (Att A; Sch 1; Col (3)		(194,024)		(285,975)		(329,729)		(444,063)		(470,879)		(527,316)		(2,251,98
Less: Plant Retirements (Att A; Sch 1; Col (5		(25,813)		(754)		(53,259)				(252,000)				(79,820
8 Net Accumulated Depreciation	_	(204,965)	_	(235,928)		(287,385)		(292,087)	_	(252,083)		(235,958)		(1,508,40
Net Plant in Service	\$	1,946,007	\$	2,821,114	\$	3,201,686	\$	4,288,652	\$	4,489,990	\$	4,981,799	\$	21,729,24
Pre-tax Rate of Return ²											х			6.17
Return on Investment													\$	1,340,32
4 Property Tax Expense 3	(a)	\$29.13	ner \$	S1 000										632,97
35	•	Q29.13	per u	,1,000										032,77
Annual Depreciation Expense (Att A; Sch 1	; Col (8)):													20.74
37 2013 Net Plant Investment 38 2014 Net Plant Investment														29,744 42,114
39 2015 Net Plant Investment														47,49
2016 Net Plant Investment														65,25
11 2017 Net Plant Investment 12 2018 Net Plant Investment														68,38° 76,73°
Total Annual Depreciation Expense														329,72
14													_	
2019 Cumulative Revenue Requirement Less: 2018 Cumulative Revenue Requiremen	₊ 4												\$	2,303,02
17 2019 Revenue Requirement	ι												\$	529,15
48														
Water Revenues per DW 13-130 5													\$	27,689,214
50														
51 52 2019 Revenue Surcharge %														1.919
2019 Cumulative Revenue Surcharge %														8.32
54														
55 Customer Impact:														
57 5/8 Inch Meter Monthly Charge													\$	20.3
Volumetric Charge													\$	3.3
Average Single Family Residential Usage (Co	CF)												•	8.5
60 Average Monthly Usage Charge 61 Total Average Monthly Charge													\$	28.3 48.6
52														
Average Monthly \$ Impact per Customer of 2	019 Surcharge												\$	0.9
Average Monthly \$ Impact per Customer of 2	019 Cumulative Surcharge												\$	4.0
6 <u>Notes:</u>														
757 The half-year convention for depreciation ex	spense is employed whereby one	e-half of the ani	nual d	epreciation										
expense is recorded in the first and last year	of an asset's service life.													
69 Calculation of Pre-Tax Rate of Return (Base			T	ov Multi-li	D	re Tax Cost								
70 71 Debt		Veighted Cost 5.59%		ax Multiplier 1.000	P	7.59%								
72 Equity		0.35%	_	1.656		0.58%								
73 2 City of Northern 2016 Mill Pote of \$22.52	104-4-11411 B . T . T	5.94%				6.17%								
74 3 City of Nashua 2016 Mill Rate of \$22.53 at 75 4 Attachment A; Schedule 2b	iu state Utility Property Tax Rat	ie 01 \$6.60.												
77 Attachment A, Schedule 20 78 Sase rate revenue requirement approved in 1	DW 13-130 by Commission Ord	ler No. 25,693 ((7/15/	14).										
77	=	, - (

A	В	С	D	E	F	G I	Н	I .	J	K	L	M	N	0	P	Q
				DW 17-xxx			•		•				•		Sched	
	DDC			CK WATER V LATION OF 2			ADCI	P								
=				CONSTRUCT												
				ONSTRUCTI												
, 7	***	iu i Roole i	LD C	O. ISTRUCTIO	0.11.11	2017 - 2	2017									
				Ac	tual]	Projected				
	_	2013	_	2014	_	2015	_	2016	_	2017		2018		2019		Total
Plant Investment: Gross Plant Investment (Att A; Sch 1; Col (2))	\$	1,960,879	\$	2,871,915	\$	3,297,289	\$	4,440,628	\$	4,708,786	\$	5,273,157	\$	5,349,510	\$	27,902,
3 Less: Cost of Removal (Att A, Sch 1, Col (2))	φ	(194,024)	φ	(285,975)	φ	(329,729)	φ	(444,063)	φ	(470,879)	φ	(527,316)		(534,951)		(2,786,
Less: Plant Retirements (Att A; Sch 1; Col (5))		(25,813)		(754)		(53,259)		-		-		-	\$	-	\$	(79,
Net Plant Investment		1,741,042		2,585,186		2,914,301		3,996,565		4,237,907		4,745,841		4,814,559		25,035,
6																
Accumulated Depreciation:																
B Depreciation Expense ¹ (Att A; Sch 1; Col (8)): 9 2013 Net Plant Investment		14.072		29,744		20.744		29,744		20.744		20.744		20.744		102
0 2014 Net Plant Investment		14,872		29,744		29,744 42,114		42,114		29,744 42,114		29,744 42,114		29,744 42,114		193 231
1 2015 Net Plant Investment		_		21,037		23,745		47,491		47,491		47,491		47,491		213
2016 Net Plant Investment		-		-		-		32,627		65,254		65,254		65,254		228,
2017 Net Plant Investment		-		-		-		· -		34,193		68,387		68,387		170
4 2018 Net Plant Investment												38,369		76,738		115
2019 Net Plant Investment		14,872		50,801		95,603		151,976		218,796		291,358	_	38,919		1,192
Total Depreciation Expense Less: Cost of Removal (Att A; Sch 1; Col (3))		(194,024)		(285,975)		(329,729)		(444,063)		(470,879)		(527,316)		368,646 (534,951)		(2,786,
Less: Plant Retirements (Att A; Sch 1; Col (5))		(25,813)		(754)		(53,259)		(+++,003)		(-7.0,079)		(527,510)		(334,731)		(2,780,
9 Net Accumulated Depreciation	_	(204,965)	_	(235,928)		(287,385)		(292,087)	_	(252,083)		(235,958)		(166,305)		(1,674
		1														
Net Plant in Service	\$	1,946,007	\$	2,821,114	\$	3,201,686	\$	4,288,652	\$	4,489,990	\$	4,981,799	\$	4,980,864	\$	26,710
Pre-tax Rate of Return ²													X			6
Return on Investment															\$	1,647
4 Provide Top Francis 3		620.12		1 000												770
Property Tax Expense ³	(a)	\$29.13	per \$	1,000												778
Annual Depreciation Expense (Att A; Sch 1; Col (8)):																
8 2013 Net Plant Investment																29,
2014 Net Plant Investment																42
2015 Net Plant Investment																47
2016 Net Plant Investment																65
2 2017 Net Plant Investment																68
3 2018 Net Plant Investment 4 2019 Net Plant Investment																76 77
5 Total Annual Depreciation Expense																407
6																
2020 Cumulative Revenue Requirement															\$	2,833
Less: 2019 Cumulative Revenue Requirement ⁴																(2,303
2020 Revenue Requirement															\$	530
0																
Water Revenues per DW 13-130 ⁵															\$	27,689
2																
3 4 2020 Revenue Surcharge %																1.
5 2020 Cumulative Revenue Surcharge %															-	10.
6																10.
5 7																
Customer Impact:																
5/8 Inch Meter Monthly Charge															\$	2
O Volumetric Charge															\$	
Average Single Family Residential Usage (CCF)															_	2
Average Monthly Usage Charge Total Average Monthly Charge															\$	
4															J	
5 Average Monthly \$ Impact per Customer of 2018 Surcharge															S	
Average Monthly \$ Impact per Customer of 2018 Cumulative Surcharge	ge														\$	
	-															
7																
7 8 <u>Notes:</u>		-half of the an	nual de	epreciation												
	eby one															
Notes: Notes: The half-year convention for depreciation expense is employed where expense is recorded in the first and last year of an asset's service life.																
Notes: Volume Notes: N	in DW	13-130)														
Notes: Volume Notes: Notes: I The half-year convention for depreciation expense is employed where expense is recorded in the first and last year of an asset's service life. Calculation of Pre-Tax Rate of Return (Based on PWW's Rate Filing)	in DW	13-130) /eighted Cost	Ta	ax Multiplier	Pı	re Tax Cost										
Notes: Online	in DW	13-130) /eighted Cost 5.59%		1.000	Pı	5.59%										
Notes: 1	in DW	13-130) /eighted Cost 5.59% 0.35%			Pı	5.59% 0.58%										
Notes: Online	in DW W	13-130) /eighted Cost 5.59% 0.35% 5.94%		1.000	Pı	5.59%										

	A	В	C I		E I	7	G I	1	I	J	K	L	M	N	O
1	,		DW 17-xx	ĸ		•	'		'		'		'	Sched	ule 3
2 3 4 5 6 7 8 9			CK WATER												
3	SUMMARY O														
4	FOR APPROVED 2014 and 2015 V						ICA SURCH	ARG	E						
_ 5	and PROJEO	CTED	2017 - 2019 V	VICA	SURCHARG	ES									
6															
-7			4.4.3		4.4.1		4.4.3				ъ				
8			Actual		Actual		Actual				Proj	ected			
10			2014		2015		2016		2017		2018		2019		2020
11			2014		2013		2010		2017		2016		2019		2020
	SUMMARY OF CALCULATIONS (Att A; Sch's 2):														
13															
14	Annual Revenue Requirement	\$	181,151	\$	319,047	\$	338,517	\$	459,022	\$	476,136	\$	529,150	\$	530,164
15	Cumulative Revenue Requirement	\$	181,151	\$	500,198	\$	838,716	\$	1,297,738	\$	1,773,874	\$	2,303,024	\$	2,833,188
16													<u>.</u>		
17															
18	Annual Revenue Surcharge %		0.67%		1.15%		1.22%		1.66%		1.72%		1.91%		1.91%
19	Cumulative Revenue Surcharge %		0.67%		1.81%		3.03%	_	4.69%		6.41%		8.32%		10.23%
20															
21				_		_		_		_		_			
	Annual Average Monthly \$ Impact per Customer		0.31	\$	0.53	<u>\$</u>	0.57	\$	0.81	\$	0.84	<u>\$</u>	0.93		0.93
	Cumulative Average Monthly \$ Impact per Customer	\$	0.31	\$	0.84	\$	1.40	\$	2.28	\$	3.12	\$	4.05	\$	4.98
24															
25 26															
	PER MOST RECENT APPROVED RATE FILING DW16-220														
28	TER MOST RECENT ATTROVED RATE FILING DW10-220														
	Annual Revenue Requirement	S	181,151	S	319,047	\$	338,517	\$	511,847	S	535,778	S	642,901		
	Cumulative Revenue Requirement	\$	181,151	\$	500,198	\$	838,716	\$	1,350,563	\$	1,886,341	\$	2,529,242		
31	•		-												
32															
	Annual Revenue Surcharge %		0.67%		1.15%		1.22%		1.85%		1.93%		2.32%		
	Cumulative Revenue Surcharge %		0.67%		1.81%		3.03%		4.88%		6.81%		9.13%		
35															
36															
	Annual Average Monthly \$ Impact per Customer	\$	0.31	\$	0.53	\$	0.57	\$	0.86	\$	0.90	\$	1.08		
	Cumulative Average Monthly \$ Impact per Customer	\$	0.31	\$	0.84	\$	1.40	\$	2.26	\$	3.16	\$	4.23		
39															
40															

A	В	С	D	Е	F	J	К	L	Proposed :	N nichuck Water Work 2016 WICA Water N /2016 Unaudited Y	ks, Inc. Nain Projects	P	Q	R	S	T	U	V	W	X PWW 2017 WICA Filling Attachment B Page 1 of 4	Y
PIPE SEGEMENT OR PROJECT NAME	CITY/TOWN	Work Order Number	MATERIAL	Original WICA filing LENGTH (FEET)		Revised Length as of 7/1/2016 (FEET)		Revised Length as of 11/30/2016 (FEET)	EXISTING PIPE	PROPOSED NEW PIPE	ORIGINAL WICA	ESTIMATED COST AS OF 4/30/2016	ESTIMATED COST AS OF 7/01/2016	ESTIMATED COST AS OF 10/01/2016	ESTIMATED COST AS OF 11/30/2016	12/31/2016 project Costs ⁶ P	IPE INSTALLATION DAT	TE PIPE AGE USEFUL LIF	E FULLY DEPREC	Explaination of Change from Original Filing	Projected Cit Paving costs 2017
Fossa Ave Int with Main St	NASHUA	1600384	CAST IRON UNLINED	68	83	83	83	83	6	8	\$ 65,000	\$ 65,000					1928	70	YES	Length adjusted/confirmed with survey	
Buchanan St Int with Main St	NASHUA	1600388	CAST IRON UNLINED	45	45	45	45	45	8	8	\$ 65,000	\$ 65,000	\$ 65,000	\$ 65,000	\$ 57,000	\$ 23,365	1934	70	YES	Length adjusted/confirmed with survey	
Lincoln Ave Int with Main St	NASHUA	1600389	CAST IRON UNLINED	36	40	40	40	40	6	8	\$ 65,000	\$ 65,000		\$ 65,000			1889	70	YES	Length adjusted/confirmed with survey	
Russell Ave Int with Main St.	NASHUA	1600390	CAST IRON UNLINED	18	20	20	20	20	6	8	\$ 65,000	\$ 65,000		\$ 65,000			1906	70	YES	Length adjusted/confirmed with survey	
Taylor St Int with Main St.	NASHUA	1600392	CAST IRON UNLINED	26	26	26	26	26	6	12	\$ 65,000	\$ 65,000					1906	70	YES		_
Faxon St Int with Main St	NASHUA	1600393	CAST IRON UNLINED	15	15	15	15	15	6	6	\$ 65,000	\$ 65,000		\$ 65,000			1906	70	YES		4
Allds St Int with Main St.	NASHUA	1600394	CAST IRON UNLINED	60	113	113	113	113	16	16	\$ 90,000	\$ 90,000		\$ 90,000			1962	70	YES	Length adjusted/confirmed with survey	\$ 100,
Allds St Int with Main St. (W. Allds)	NASHUA	1600394	CAST IRON UNLINED	50	59	59	59	59	2	6	\$ 15,000	\$ 15,000		\$ 15,000			1930	70	YES	Length adjusted/confirmed with survey	4
Field St Int with Main St.	NASHUA	1600395	CAST IRON UNLINED	42	42	42	42	42	6	6	\$ 65,000	\$ 65,000		\$ 65,000			1922	70	YES		4
Revere St Int with Main St Pratt St Int with Main St.	NASHUA	1600396	CAST IRON UNLINED	38	38	38	38	38	6	6	\$ 65,000	\$ 65,000		\$ 65,000			1921	70	YES		4
Fratt St Int with Main St.	NASHUA NASHUA	1600397	CAST IRON UNLINED	33	49	49	33	49	6	- 12	\$ 90,000	\$ 90,000		\$ 90,000			1908	70	YES	Length adjusted/confirmed with survey	-
Stevens St Int with Main St	NASHUA NASHUA	1600398	CAST IRON UNLINED	15	15	15	15	15	6	6	\$ 58,000	\$ 58,000		\$ 58,000	0.,000	0 00,010	1919	70	YES	pengun wajawaay culiiir ilieu wich survey	Η
Dickerman St Int with Main St	NASHUA	1000399	CAST IRON UNLINED	0	0	0	15	3	6	6	\$ 58,000	s 38,000	\$ 38,000	\$ 38,000	\$ 32,000	\$ 7710	1930	70	163		+
Montgomery St Int with Main St.			CAST IRON UNLINED	0	0	0	0	47	8	8	e	· .	6 .	¢ .	6 .	\$ 18,391					+
Main Street Water Main Replacement ^a	NASHIIA	1600374	CAST IRON UNLINED	0	0	,	0	189	16.8.24	16.8.74	e	· .	s .	ć .	6 .	\$ 644.185	1902	70	YES	See Note 5 below	+-
Temple Street (Armory to Commercial St.)	NASHUA	1600381	CAST IRON UNLINED	300	300	300	300	0	8	8	\$ 93,000	\$ 93,000	\$ 93,000	\$ 93,000	s -	\$.	1888	70	YES	City of Nashua delayed work until 2017	+
Manchester Road	AMHERST	1601367	TRANSITE	0	0	165	165	165	8	12	0	s -	\$ 48,000	\$ 68,000	\$ 68,000	S 14.392	1958	70	YES	Low bid is higher than estimated	_
Manchester Road	AMHERST	1607378	TRANSITE	0	0	986	986	986	6	8	0	s -	\$ 252,000	\$ 301,000			1964	70	YES	Low bid is higher than estimated	1
Amherst Street	NASHUA	1601318	CAST IRON UNLINED	3150	3150	3150	3150	2100	6	12	\$ 1,071,000	\$ 1,071,000	\$ 1,071,000	\$ 1,111,000	\$ 580,067	\$ 664,742	1892-1912	70	YES	Remaining 1050 LF of this project to be completed in 2017	\$ 160
Terrace Street	NASHUA	1601321	CAST IRON UNLINED	280	280	280	280	0	4 & 2	4	\$ 73,000	\$ 73,000	\$ 73,000	\$ 83,000	s -	s -	1924, 1946	70	YES	Project contracted for 2016, work to be completed in 2017	
Bruce Street	NASHUA	1601319	CAST IRON UNLINED	260	260	260	260	0	6	6	\$ 72,000	\$ 72,000	\$ 72,000	\$ 82,000	\$ -	\$ -	1909-1926	70	YES	Project contracted for 2016, work to be completed in 2018	
Berkshire Street	NASHUA	1601320	CAST IRON UNLINED	575	575	575	575	0	6	6	\$ 158,000	\$ 158,000	\$ 158,000	\$ 167,000	\$ -	ş -	1913-1915	70	YES	Project contracted for 2016, work to be completed in 2019	
Water Street	NASHUA	1502474	CAST IRON UNLINED	755	755	0	0	0	6	0	\$ 58,000	\$ 58,000		\$ 58,000	\$ 55,000	\$ 107,274	1888	70	YES	Project complexity changed when 24" tie in exposed. Servcies from 6" tied to existing 12". 6" removed from 24"	to \$ 20,
Chapman St (Lund to end)	NASHUA	1600406	CAST IRON UNLINED	130	130	0	0	0	1.25	4	\$ 34,000	\$ 34,000		\$ -	\$ -	s -	1948	70	YES	Defered ¹	
McKean St (Arlington to #31 McKean)	NASHUA	1600408	CAST IRON UNLINED	970	970	0	0	0	6	8	\$ 127,000	\$ 127,000		\$ -	\$ -	\$ -	1888	70	YES	Defered ⁵	
Gilman Street	NASHUA	1607377	CAST IRON UNLINED	1460	1460	0	1460	0	6 & 8	8 6&4	\$ 453,000	\$ 453,000	*	\$ 685,000	-	\$ -	1909-1924	70	YES	Project defered until 2017 due to conflict with Gas Mains	+
Bridle Path	NASHUA	1617680	CAST IRON UNLINED	330	330	0	330	330	6 & 1 1/4	12	\$ 89,000	\$ 89,000		\$ 108,000			1930	70	YES	Revived -bid price - note \$44,000 is for trench restoration	5 6
Chestnut Street (Kinsley to W. Otterson) Hughey St (Hutchison to Warsaw)	NASHUA NASHUA	1601373	CAST IRON UNLINED	585 755	585 755	0	550	550	6 & 4	12	\$ 199,000	\$ 199,000		\$ 194,000	\$ 131,000	\$ 144,735	1887-1931	70	YES	Revived - bid price - note \$62,000 is for trench restoration Defered ¹	\$ 60
Worcester Street (Scripture to Shedds)	NASHUA	1600407	CAST IRON UNLINED	399	330	330	330	330	ь .		\$ 234,000	\$ 234,000 \$ 143,000	*	\$ 143,000	\$ 121,200	\$ 217,751	1924-1946	70	YES	Length adjusted/confirmed with survey	\$ 2
Scripture Street (Temple to Worcester)	NASHUA	1600405	CAST IKON UNLINED CEMENT LINED STEEL	458	505	505	505	505	6	8	\$ 143,000	\$ 143,000 \$ 143,000					1888 - 1924	70	YES	Length adjusted/confirmed with survey Length adjusted/confirmed with survey	\$ 1
Shedds Avenue (Scripture to Worcester)	NASHUA	1600404	CEMENT LINED STEEL	291	261	261	261	261	2	4	\$ 100,000	\$ 100,000		\$ 100,000			1940	40	YES	Length adjusted/confirmed with survey	\$ 2
Hoyts Ln (Scripture to Shedds)	NASHUA	1600402	CAST IRON UNLINED	400	80	80	80	80	4	4	\$ 57,000	\$ 57,000		\$ 57.000			1922	70	YES	only 80' is actual replacement, 166' of proposed is new main	S 1
Tolles Street (Canal to Whitney)	NASHUA	1600382	CAST IRON UNLINED	470	475	475	475	475	- 6	8	\$ 146,000	\$ 146,000	\$ 146,000	\$ 146,000			1888	70	YES	Length adjusted/confirmed with survey	\$ 3
Gorman Ave (Temple to Hoyts)	NASHUA	1700598	CEMENT LINED STEEL	113	20	20	20	20	1 1/2	4	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000			1940	40	YES	In lieu of Gorman 665' of NEW main is proposed on Howard	ş
Birch Brow Road	NASHUA	1603605	CL Steel	0	30	52	52	52	1.5	2	\$ -	\$ 20,000	\$ 22,000	\$ 22,000		\$ 16,924	1887-1931	70	YES	Emergency water main replacement (Paving added)	
Edwards Ave	NASHUA	1603403	CL Steel, CT, PVC	0	458	462	462	462	2, 1.5,1	2	\$ -	\$ 90,000					1924-1946	70	YES	Emergency water main replacement (Paving added)	
Gillis Street (Arlington to Allds)	NASHUA	1617684	CAST IRON UNLINED	0	0	0	0	1175	4	8	\$ - :	s -	s -	\$ -	\$ 215,000	\$ 333,191	1888	70	YES	Late Construction Season Addition	\$ 13
Orange St (Concord to Locke)	NASHUA	1620662	CAST IRON UNLINED	0	0	0	0	662	8	8	s -	s -	\$ -	\$ -	\$ 135,000	\$ 403,933	1097	70	YES	Late Construction Season Addition	\$ 7
W Allds Street (Main to end)	NASHUA		CEMENT LINED STEEL	0	0	0	0	225	2	6	\$ -	ş -	\$ -	\$ -	\$ 55,000	ş .	1931	40	YES	Late Construction Season Addition	\$ 25
			Total LF	- 12164	12287	8479	10819	9195		Total -	\$ 4,188,000	\$ 4,298,000	\$ 3,446,000	\$ 4,629,000	\$ 3,098,937	\$ 3,839,715					
									Pa	ving from 2015 projects	- \$ 292,330	\$ 292,330	\$ 292,330	\$ 292,330	\$ 360,997	\$ 360,997					
					Valve	Replacements ¹ -	7	@	\$ 2,112		\$ 14,784						6	gates replaced			
						Replacements ¹ -	31	@	\$ 2,067		\$ 64,077						60	Services replaced			
					Hydrant	t Replacements ¹ -	9	@	\$ 4,521		\$ 40,752			\$ 40,752	\$ 59,796	\$ 59,796	14	Hydrants replaced			
										Planning Contingency ²	\$ 418,000	\$ 308,800	\$ 344,600	\$ -	\$ -	\$ -					
Number of Service, Valve and hydrant replacments is the a The City operates on a Fiscal year basis between July 1 and Projects were deferred due to the fact that engineering st City paving for PWW WICA projects completed in 2015 - C	d June 30 of the follow aff dedicated to comp	ring Calendar year. A leting project design	A contingency of 10% is carried f work was reassigned to the des	for planning purp	ooses.	extension in Norti	h Litchfield to p	rovide public water		nated WICA \$\$ in 2016 - tainted wells.	\$ 5,017,943	\$ 5,018,743	\$ 4,202,543	\$ 5,040,943	\$ 3,630,615	\$ 4,440,628					
Portions of the 24" and 16" water main on Main Street ner Final Dollars are subject to audit. Final Dollars include acci	eded to be replaced to	facilitate the Main !	Street intersection projects. Thi	is project reflect: ed.	s the replacemen	nt of that water m	ain.														

A	В	C	D	E	F	G	Н	I	J	K	L	M	N	0	P	Q	R	S	T
						ichuck Water Work 017 WICA Water M 1/10/17													PWW 2017 WICA Filin Attachment B Page 2 of 4
PIPE SEGEMENT OR PROJECT NAME	CITY/TOWN	MATERIAL	LENGTH (FEET)	EXISTING PIPE DIAMETER (INCHES)	PROPOSED NEW PIPE DIAMETER (INCHES)	ESTIMATED COST	PIPE INSTALLATION DATI	PIPE AGE USEFUL LIFE	FULLY DEPREC	BREAK HISTORY	KEY CUSTOMERS	WATER QUALITY	FIRE PROTECTION FLOWS ²	Work coordination with Gas, Sewer or Storm Drain Replacement ^{4,4,2}	Subtotal prior to Geographical Area Points	Geographic Points	TOTAL	Funding Source	Included in previous WICA fillings
Dodge Road	AMHERST	Asbestos Cement	675	6	8*	\$ 30,000	1950s	70	No	2				P & S	1	1 3	14	BFA Bond	No
Mack Hill Road	AMHERST	Asbestos Cement	1525	8	12	\$ 320,000	1950	70	No	1				P & S	1	3	13	BFA Bond	No
Lincoln Ave (Main to Fifield)	NASHUA	unlined cast iron	820	6	8	\$ 198,000	1889	70	Yes	2			2			3	7	BFA Bond	DW15-043/2016, DW16-220/2017
Nutt St (Faxon to Lincoln)	NASHUA	unlined cast iron	512	4	8	\$ 100,000	1890	40	Yes	1			1			2 3	5	BFA Bond	DW15-043/2016, DW16-220/2017
Buchanan St (Main to Nutt)	NASHUA	unlined cast iron	568	6	8	\$ 142,100	1912, 1916, 1934	70	Yes				1			1 2	3	BFA Bond	DW15-043/2016, DW16-220/2017
Fowell Ave (Main to end)	NASHUA	unlined cast iron	895	4,6	8	\$ 287,000	1919, 1923, 1924	70	Yes	1			2			3 2	5	BFA Bond	DW15-043/2016
Zellwood St (Pratt to Fowell)	NASHUA	unlined cast iron	370	6	4	\$ 92,000	1933	70	Yes		1		2			3 2	5	BFA Bond	DW13-358/2016, DW15-043/2016
Pratt St (Main to Lawndale)	NASHUA	unlined cast iron	715	6	12	\$ 210,000	1908, 1933, 1945	70	Yes				2			2 2	4	BFA Bond	DW12-359/2015, DW13-358/2015, DW15-043/2016
Gilman St (Ritter Street to Woodward Ave.)	NASHUA	unlined cast iron	1470	6,8	8	\$ 453,000	1911, 1922, 1924	70	Yes	1			1	P & G	1	D	10	BFA Bond	DW16-220/2016
Temple St (Armory to Commercial)	NASHUA	unlined cast iron	300	8	8	\$ 93,000	1888	70	Yes		1		1	S & G	1	1	11	BFA Bond	DW12-359/2015, DW13-358/2016, DW15-043/2015, DW16-220/2016
Berkshire St (Amherst to High Pine)	NASHUA	unlined cast iron	575	6	6	\$ 167,000	1913-1915	70	Yes			1	. 1	Р		3	11	SRF	DW16-220/2016
Terrace St (Locus to end)	NASHUA	unlined cast iron	280	4,2	4	\$ 83,000	1924, 1946	40	Yes			1		Р	:	7 3	10	SRF	DW16-220/2016
Bruce St (Amherst to Prescott)	NASHUA	unlined cast iron	260	6	6	\$ 83,000	1909-1926	70	Yes			1	1	Р		3	11	SRF	DW16-220/2016
Amherst St (Completion of project started in 2016)	NASHUA	unlined cast iron	1150**	6	12	\$ 370,000	1892-1912	70	Yes					P		5 3	9	SRF	DW16-220/2016
Factory St (Main to Walnut)	NASHUA	unlined cast iron	950	12	16	\$ 300,000	1888	70	Yes	1	1		2			1	4	BFA Bond	No
Factory St	NASHUA	unlined cast iron	650	8	Abandon	\$ -	1888	70	Yes	2	1		2			5	5	BFA Bond	No
Kinsley St (Intersection work)	NASHUA	unlined cast iron	225	8	8	\$ 225,000	1888	70	Yes		1	1	1	Р		3	3	BFA Bond	No
	Valve Replacements ²	Total LF	C:	arry over from Paving from \$ 3,589	=	\$ 1,081,750 \$ 21,534													
1	Service Replacements ¹ - vdrant Replacements ¹ -	3		\$ 2,476 \$ 4,548		\$ 91,612 \$ 45,480													
н	yarant kepiacements: -	1	n 6a		anning Contingency ³ -														
					ted WICA \$\$ in 2017 -														
 Material Integlty - Rating of 1 point for each break in the last 22. SO Pire Ratings - A rating of 1 for each 500 gpm that the flow it 2. SO Pire Ratings - A rating of 1 for each 500 gpm that the flow it 2. Mowin and Service Valve and Infrastra religionates is the area of 2. PWW must complete replacement of its mains when the City in 5. Mow Chip speakes on a Final service between sulfy 2. Description of the Chip of 2. Projects that are highlighted in same color are located in the sa SciGAP - Water replacement related to severe and pars replacement. The Chip of Nahaba has not bilded PWW for its share of paving 6. SHe Chip of Nahaba has not bilded PWW for the Share of paving 6. 	n the watermain is less to ige of the past 5 years. ' eplaces its sewer mains. e 30 of the following Call ty Paving Program, Gall ime geographical area. ment with 1/3 cost shari on water main projects of	The average cost for each re lendar year. Project in street where Gas 0 If there is no highlighting the ng of pavement, must move ompleted in 2015 and 201.	Company master p projects are not water due to con PWW expects the	A contingency of plan calls for gas main rep located in proximity to an flict with sewer - 10 point city to bill PWW for it's s	lacement, S - Project i ny other planned WICA s	n street where sewer an projects		ent is occurring		the anticipated pa	evement cost share is at	tached.							
G&P - Water replacement related to gas replacement and City P - City paving street over water main. 1/2 cost sharing of pavi	Street paving with 1/3 of	ost sharing of pavement. W	ater does not have	ve to be moved, no conflic		oints													

A	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	P	Q	R	S	T
47						ichuck Water Works,													PWW 2017 WICA Fil
18					Proposed 2	018 WICA Water Ma	in Projects												Attachmer
19						1/10/17													Page 3 o
0																			
														Work coordination with					
				PIPE DIAMETER	PROPOSED NEW PIPE DIAMETER			PIPE AGE				WATER	FIRE PROTECTION	Gas, Sewer or Storm Drain	Subtotal prior to Geographical Area				
PIPE SEGEMENT OR PROJECT NAME	CITY/TOWN	MATERIAL	LENGTH (FEET)		(INCHES)	ESTIMATED COST	AGE OF PPE	USEFUL LIFE	FULLY DEPREC	BREAK HISTORY	KEY CUSTOMERS	QUALITY	FLOWS ²	Replacement ^{4,6,8}	Points	Geographic Poir	nts TOTAL	Funding Source	Included in previous WICA filings
Temple St (South to Armory)	NASHUA	unlined cast iron	956	8	12	\$ 390,507	1888	70	Yes				2	P			8		DW12-359/2015, DW13-358/2016, DW15-043/2016, DW16-220/2016
Miami St (Intervale to Tampa)	NASHUA	Galv.	427	2	8	\$ 147,152	1927	40	Yes	1			1 4			5	6	1	DW12-359/2014, DW16-220/2018
Lake St (Pine Street Easterly)	NASHUA	unlined cast iron	154	6	12	\$ 112,577	1888	70	Yes	2			4			5 3	9		DW15-043/2015, DW16-220/2017
Lake St (Pine Street to Almont Street)	NASHUA	unlined cast iron	2800	6	12	\$ 601,267	1888	70	Yes		1		3			3	7		DW16-220/2018
Brook St (Ash to Fulton)	NASHUA	unlined cast iron	1141	6	8	\$ 396,814	1887-1924	70	Yes		1		3			1 2	6		DW12-359/2014, DW13-358/2015, DW15-043/2015, DW16-220/2017
Hamilton St (Lake to Brook)	NASHUA	unlined cast iron	411	6	6	\$ 129,411	1909-1941	70	Yes		1		1			2 3	5	1	DW12-359/2014, DW13-358/2015, DW15-043/2015, DW16-220/2017
Burritt St (Lake to Brook)	NASHUA	unlined cast iron	424	6	6	\$ 154,446	1887-1921	70	Yes		1		3			3	7		DW12-359/2014, DW13-358/2015, DW15-043/2015, DW16-220/2017
Burritt St Brook Street southerly)	NASHUA	unlined cast iron	182	4	4	\$ 42,437	1941	40	Yes							2	2	1	DW12-359/2014, DW13-358/2015, DW15-043/2015, DW16-220/2017
Ash St (Lake to Lovell)	NASHUA	unlined cast iron	517	6	6	\$ 165,495	1892	70	Yes				1			1 3	4		DW15-043/2015, DW16-220/2017
Verona St (Sarasota to Manatee)	NASHUA	unlined cast iron	678	6	8	\$ 335,086	1913 - 1915	70	Yes		1		2			3 2	5	To Be Deterimined	DW12-359/2014, DW13-358/2015, DW15-043/2016, DW16-220/2017
Sarasota Ave (Pine to Verona)	NASHUA	unlined cast iron	250	6	8	\$ 100,000	1926-1949	70	Yes/No		1		2			3 2	5	Combination of future	DW12-359/2014, DW13-358/2015, DW15-043/2016, DW16-220/2017
Russell St (Main to Fifield)	NASHUA	unlined cast iron	948	6	8	\$ 232,036	1906-1913	70	Yes				1			1 2	3	Bond and future SRF Funding	DW15-043/2016, DW16-220/2016
Circle Ave Nutt to end)	NASHUA	Cement Line	164	2	4	\$ 26,972	1930	40	Yes							2	2		DW15-043/2016, DW16-220/2017
Taylor St (Main to Lynn)	NASHUA	unlined cast iron	1629	6&8	12	\$ 404,233	1892-1940	70	Yes		3		2			3			DW15-043/2016, DW16-220/2017
Fossa Ave (Main to end)	NASHUA	unlined cast iron	282	6	8	\$ 125,000	1928	70	Yes				4			1 2	6		DW12-359/2015, DW13-358/2015, DW15-043/2016, DW16-220/2017
Stevens St (Main to Lawndale)	NASHUA	unlined cast iron	800	6&4	8	\$ 280,591	1927-1930	70	Yes		1		2			3 2	5		DW15-043/2016, DW16-220/2017
Stevens St (Lawndale to end)	NASHUA	unlined cast iron	150	6	4	\$ 64,538	1924	70	Yes							2	2		DW15-043/2016, DW16-220/2017
Field St (Main to Fernwood)	NASHUA	unlined cast iron	306	6	8	\$ 131,000	1922	70	Yes				2			, ,	4		DW12-359/2015, DW13-358/2015, DW15-043/2016
Fernwood St (Field to Revere)	NASHUA	unlined cast iron	307	6	8	\$ 111,600	1924-1945	70	Yes				2			2 2	4		DW15-043/2016
Revere St (Main to Lawndale)	NASHUA	unlined cast iron	792	6	8	\$ 249,739	1919-1923	70	Yes	1	1		2			1 2	6		DW12-359/2015, DW13-358/2016, DW15-043/2016
Burnett St (East Dunstable to Rice)	NASHUA	unlined cast iron	580	6	12	\$ 221,400	1925	70	Yes				1			1 2	3		DW15-043/2016
		Total LF	- 13,898		Total -	\$ 4,422,301											_		
			,		g from 2017 projects-														
	Valve Replacements ¹		6 @	\$ 3.589		\$ 21,534													
	Service Replacements ¹		7 🙉	S 2.476	-	\$ 91,612													
	Hydrant Replacements ¹		0 @	\$ 4.548		\$ 45,480													
1	.,	-		PI	anning Contingency ⁴ -	\$ 442,230													
					ted WICA \$\$ in 2018 -														
						, .,,													
Material Integity - Rating of 1 point for each break in the late.		then the ICO consists of entire																	
 ISO Fire Ratings - A rating of 1 for each 500 gpm that the fl Number of Service, Valve and hydrant replacments is the a 				is the average cost for 20:	15														
4. PWW must complete replacement of its mains when the C	ity replaces its sewer mains.																		
The City operates on a Fiscal year basis between July 1 and	June 30 of the following Ca	lendar year.		A contingency of			carried to account for												
 Work Coordination Legend - P - Project in street affected in 							or storm drain replacer	nent is occurring	3-										
 Projects that are highlighted in same color are located in till. S&G&P - Water replacement related to sewer and gas repl 						projects													
S&P - Water replacement related to sewer replacement w					-														
G&P - Water replacement related to gas replacement and	City Street paving with 1/3 o	ost sharing of pavement. W	ater does not hav	ve to be moved, no conflic															
P - City paving street over water main. 1/2 cost sharing of					ith paving project - 6 p	oints													
G - Water replacement related to gas replacement with 1/2	cost snaring of pavement.	water does not have to be r	novea, no conflic	t with gas - 5 points															

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						ichuck Water Works 019 WICA Water Ma 1/10/17													PWW 2017 W Atta P
PIPE SEGEMENT OR PROJECT NAME	CITY/TOWN	MATERIAL	LENGTH (FEET)	PIPE DIAMETER (INCHES)	PROPOSED NEW PIPE DIAMETER (INCHES)	ESTIMATED COST	AGE OF PPE	PIPE AGE USEFUL LIFE	FULLY DEPREC	BREAK HISTORY	KEY CUSTOMERS	WATER QUALITY	FIRE PROTECTION FLOWS ²	Work coordination with Gas, Sewer or Storm Drain Replacement ^{6,6,8}	Subtotal prior to Geographical Area Points	Geographic Points	TOTAL	Funding Source	Included in previous WICA filings
Coburn Woods Units 182-187	NASHUA	Polybutylene	140	2	4	\$ 52.971	1973	40	Yes										
Coburn Woods Units 188-193	NASHUA	Polybutylene	140	2	4	\$ 52,971	1973	40	Yes	1					1				
Coburn Woods Units 197-202	NASHUA	Polybutylene	150	2	4	\$ 54,558	1973	40	Yes	i					1				
Coburn Woods Units 205-211	NASHUA	Polybutylene	120	2	4	\$ 51,717	1973	40	Yes										
Coburn Woods Units 213-220	NASHUA	Polybutylene	150	2	4	\$ 60,538	1973	40	Yes										
Coburn Woods Units 173-181	NASHUA	Polybutylene	200	2	4	\$ 72,187		40	Yes										
Coburn Woods Units 156-166	NASHUA	Polybutylene	250	2	4	\$ 86,907	1973	40	Yes										
Coburn Woods Units 167-172	NASHUA	Polybutylene	100	2	4	\$ 44,852	1973	40	Yes	31					42	3	45		DW15-043/2015, 2016, 2016
Coburn Woods Units 149-155	NASHUA	Polybutylene	170	2	4	\$ 60,618	1973	40	Yes										
Coburn Woods Units 141-146	NASHUA	Polybutylene	270	2	4	\$ 76,017	1973	40	Yes		-								
Coburn Woods Units 131-133 Coburn Woods Units 126-130	NASHUA	Polybutylene	50 150	2	4	\$ 25,980	1973	40	Yes										
Coburn Woods Units 126-130 Coburn Woods Units 116-125	NASHUA NASHUA	Polybutylene Polybutylene	150 250	2	4	\$ 51,809 \$ 83,998	1973 1973	40	Yes	1					1				
Coburn Woods Units 116-125 Coburn Woods Units 109-115	NASHUA NASHUA	Polybutylene Polybutylene	160	2	4	\$ 83,998 \$ 59,376	1973 1973	40	Yes										
Coburn Woods Units 105-108	NASHUA	Polybutylene	75	2	4	\$ 39,079	1973	40	Yes									To Be Deterimined	
Cobum Woods Units 98-104	NASHUA	Polybutylene	150	2	4	\$ 57,628	1973	70	Yes									Combination of future Bond and future SRF	
Barker Ave (Burke to King)	NASHUA	unlined cast iron	603	6	6	\$ 190,000		70	Yes				1		1	2	3	Funding	DW15-043/2017, DW16-220/2018
Williams St (Allds to Arlington)	NASHUA	unlined cast iron	1495	6	8	\$ 556,520	1910-1934	70	Yes				2		2	2	4	1	DW15-043/2017, DW16-220/2018
McKean St (Allds to Arlington)	NASHUA	unlined cast iron	1714	6	8	\$ 647,700	1888	70	Yes	2			2		4	3	7		DW15-043/2017, DW16-220/2018
Cherry St (McKean to End)	NASHUA	unlined cast iron	236	4	4	\$ 71,000	1926	40	Yes			1			1	3	4		DW15-043/2017, DW16-220/2018
Copp St (Gillis to Bowers)	NASHUA	unlined cast iron	358	6	6	\$ 122,000	1907	70	Yes				1		1	2	3		DW15-043/2017
Gray Ave (Gillis to Bowers)	NASHUA	unlined cast iron	360	6	6	\$ 112,000	1922	70	Yes				1		1	2	3		DW15-043/2017
Proctor St (Allds to Mulvanity)	NASHUA	unlined cast iron	206	8	8	\$ 113,500	1922	70	Yes							2	2		DW12-359/2014, DW13-358/2015, DW15-043/2017, DW16-220/20
Proctor St (Mulvanity to end)	NASHUA	unlined cast iron	136	2	4	\$ 48,700	1930 & 1940	40	Yes	1		1			2	2	4		DW12-359/2014, DW13-358/2015, DW15-043/2017, DW16-220/20
Mulvanity St (Proctor to end)	NASHUA	Steel cement Lined	284	2	4	\$ 79,000	1940-1954	40	Yes			1			1	2	3	-	DW12-359/2014, DW13-358/2015, DW15-043/2017, DW16-220/20
Newbury St (Underhill to Bowers)	NASHUA	unlined cast iron	1896	6&8	8	\$ 819,000	1888-1940	70	Yes	1	1		2		4	3	7		DW13-358/2016, DW15-043/2017, DW16-220/2018
Thomas St (Haines to McKean) Lawndale Ave (Revere to Fowell)	NASHUA NASHUA	unlined cast iron unlined cast iron	449 664	6	6	\$ 224,000 \$ 216,085	1892-1908 1927-1937	70	Yes	1			1		2	3	5		DW13-358/2016, DW15-043/2017, DW16-220/2018 DW15-043/2016
Lawridate Ave (Revere to Fowell) Lawridate Ave (Fowell to Stevens)	NASHUA	unlined cast iron	420	8	12	\$ 216,085	1927-1937	70	Yes/No	1	1		2		4	3	- '		DW15-043/2016 DW15-043/2016
Faxon St (Main to Nutt)	NASHUA	unlined cast iron	586	6&8	8	\$ 127.573	1912	70	Yes	1			2		3	3			DW15-043/2016 DW15-043/2016, DW16-220/2017
Faxon Ave (Faxon St to end)	NASHUA	Cement Lined	195	2	4	\$ 33,429	1940	40	Yes			1			1	3	4	i	DW15-043/2016, DW16-220/2017
		Total LF	- 12127		Total -	\$ 4,491,713												•	
				Pavin	g from 2018 projects-														
,	'alve Replacements' -		6 @	\$ 3,589		\$ 21,534													
	vice Replacements ⁸ -		7 @	\$ 2,476		\$ 91,612													
Ну	rant Replacements ⁸ -	1	0 @	\$ 4,548	=	\$ 45,480													
				Planning Contingency ⁴ -		\$ 449,171													
			Tota	al Estimated WICA \$\$ in 2	019 -	\$ 5,349,510													
erial Integity - Rating of 1 point for each break in the last 20 Fire Ratings - A rating of 1 for each 500 gpm that the flow in		handle ICO associated anti-																	
ire Katings - A rating or 1 for each 500 gpm that the flow in iber of Service, Valve and hydrant replacments is the averag				is the average cost for 201	.5														
V must complete replacement of its mains when the City re	laces its sewer mains.	-		-															
City operates on a Fiscal year basis between July 1 and June k Coordination Legend - P - Project in street affected by City			Company marks	A contingency of	acament \$ - Project		is carried to account for t												
ects that are highlighted in same color are located in the san	e geographical area. I	If there is no highlighting the	e projects are not	located in proximity to an	y other planned WICA		gor worm uram replacem	is occurring											
&P - Water replacement related to sewer and gas replacem	nt with 1/3 cost sharin	ng of pavement, must move	water due to con	iflict with sewer - 10 point	s														
 Water replacement related to sewer replacement with 1/. Water replacement related to gas replacement and City St 	cost sharing of paven eet paving with 1/3 co	nent, must move water due ost sharing of payement W	to conflict with se ater does not have	ewer - 9 points re to be moved, no conflict	t with gas - 8 points														
ity paving street over water main. 1/2 cost sharing of paver						pints													
later replacement related to gas replacement with 1/2 cost																			

	A	В	С	D)		
1							
2							
3	2017 Paving Payments carried over from Previous Years						
4							
5	PIPE WORK COMPLETED	PIPE SEGEMENT OR PROJECT NAME	LENGTH (FEET)	со	ST		
6	2015	Chestnut St (Lake to Lovell St)	925	\$	50,000		
7	2015	Chestnut St (Lovell St to Fields Grove Park)	500	\$	36,000		
8	2015	Lovell St (Chestnut St to Ash St)	500	\$	30,000		
9	2015	Lovell St (Ash St to Pine St)	900	\$	60,000		
10	2015	Ash St - (Lovell St int to S. end)	350	\$	26,250		
11	2015	Lovell St (Chestnut St easterly)	250	\$	18,750		
12	2015	Rochette Ave (Chestnut St to end)	250	\$	15,750		
13	2015	Marquis Ave (Lovell St to end)	175	\$	10,000		
14	2016	Amherst St* (Mont Vernon St to Kirk St)	2,200		160,600		
15	2014	Burke St (Allds St to Amoskeag St)	3,700	\$	24,000		
16	2016	Worcester St	420	\$	32,000		
17	2016	Scripture St	460	\$	35,000		
18	2016	Shedds Ave	250	\$	38,000		
19	2015	Howard - Emergency (Hoyts to sharp corner)	495	\$	38,000		
20	2016	Hoyts Ln (Scripture to Howard)	220	\$	18,000		
21	2016	Gillis St	1,175	\$	130,000		
22	2016	Water St	88	\$	20,000		
23	2016	Orange St (Concord St to Lock St)	662	\$	75,000		
24	2016	Gorman St	30	\$	1,500		
25	2016	Chestnut St Phase 2 (Kinsley to W. Otterson)	560	\$	61,600		
26	2016	Main St (Allds to Dickerman)	600	\$	80,000		
27	2016	Faxon St	100	\$	20,000		
28	2016	Tolles St (Whitney to Canal)	550	\$	45,500		
29	2016	W. Allds St (Main to end)	225	\$	25,000		
30	2016	Bridle Path (Lake to End)	325	\$	30,800		
31		Total	15,910	\$ 1,	081,750		

0501 NASHUA NH Pennichuck Water 11/14 2 529 531 01/16/2017 80329984 12/19 35 ***Note*** Please go to www.pennichuck.com/CCR-A0.pdf to view your 2016 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 2016 Annual Water Quality Report mailed to your home, please call our customer service department at 800-553-5191. Previous Balance Payment Since Last Bill Adjustment Since Last Bill Balance Before Current Charges 34.01 34.01 0.00 0.00 New Charges - ACTUAL READ PWW WATER CONSUMPTION 2 CCF @ 3.30 6.60 PWW MTHLY MTR 5/8" 20.34 WATERTIGHT MONTHLY WICA 0.82 Current Charges 34.01 New Balance 34.01 NEW BALANCE WILL BE DEDUCTED FROM YOUR BANK ACCOUNT ON DUE DATE. ONLINE PAYMENT IS NOW AVAILABLE AT WWW.PENNICHUCK.COM

PENNICHUCK IS SEEKING NHPUC FINAL APPROVAL OF THE 2016 WICA SURCHARGE IN DECEMBER. PLEASE VISIT WWW.PENNICHUCK.COM FOR MORE INFORMATION

WICA - This bill contains a 3.03% Water Infrastructure and Conservation Adjustment (WICA) charge. For further information please refer to the back of your bill.

The 2016 Annual Water Quality Report is now available on-line at www.pennichuck.com/CCR-A0.pdf

NASHUA 0501 12/29/2016 01/23/2017 34.01 NASHUA 12/29/2016 01/23/2017 34.01 DO NOT PAY

☐ The 2016 Annual Water Report is available electronically at

copy mailed to your home, please check this box.

the url indicated above however, if you would prefer a paper

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FOR SERVICE AT:

IMPORTANT

APPLICABLE RATES, RULES AND REGULATIONS UNDER WHICH SERVICE IS FURNISHED ARE ON FILE AT THE OFFICE OF PENNICHUCK WATER WORKS. COPIES MAY BE OBTAINED UPON REQUEST.

CUSTOMER OF RECORD WILL BE CHARGED FOR ALL WATER PASSING THROUGH THE METER. IF WE ARE UNABLE TO GAIN ACCESS TO READ THE METER, THE BILL WILL BE ESTIMATED FOR THE BILLING PERIOD.

THE CUSTOMER OF RECORD MUST KEEP THE METER ACCESSIBLE FOR READING AND INSPECTION AT ALL TIMES, ANY METER DAMAGED THROUGH THE NEGLIGENCE OF THE CUSTOMER WILL BE REPAIRED AT THEIR EXPENSE.

PLEASE NOTIFY OUR OFFICE IMMEDIATELY UPON CHANGE OF OWNERSHIP OR MAILING ADDRESS. UNTIL THE OFFICE IS NOTIFIED. THE CUSTOMER OF RECORD IS RESPONSIBLE FOR ALL CHARGES.

IF THERE IS A MEDICAL REASON FOR NON-PAYMENT, A STATEMENT FROM YOUR PHYSICIAN WILL BE NECESSARY.

FOR YOUR CONVENIENCE, A MAIL SLOT IS LOCATED AT THE OFFICE AT 25 MANCHESTER STREET, MERRIMACK, NH.

THE FIRST CONTACT FOR THE RESOLUTION OF ANY CONSUMER INQUIRY OR COMPLAINT SHOULD BE DIRECTED TO PENNICHUCK WATER WORKS.

OFFICE HOURS MONDAY-FRIDAY 7:30 AM TO 4:00 PM 24 HOUR SERVICE 603 / 882-5191 800 / 553-5191

IMPORTANT NOTICE - YOUR RIGHTS

BY NH PUBLIC UTILITIES COMMISSION ORDER NO. 14.411 YOU ARE ADVISED THAT YOU MAY BRING ANY COMPLAINT, PROBLEM, CONCERN OR COMMENT TO THE ATTENTION OF THE CONSUMER ASSISTANCE DEPARTMENT AT THE PUBLIC UTILITIES COMMISSION BY CALLING 1-800-852-3793 or 603-271-2431, BY MAIL TO 21 S. FRUIT STREET, SUITE 10, CONCORD, NH 03301-2429, OR LOG ONTO THEIR WEBSITE AT WWW.PUC.NH.GOV

** WICA Charge Explanation: Your current bill may include a Water Infrastructure and Conservation Adjustment (WICA) charge. This adjustment covers costs of completed infrastructure improvements that have both enhanced the reliability of water service and its delivery to our customers. Further information may be obtained from our website www.pennichuck.com or by contacting our customer service department at 1-800-553-5191.

DIRECT PAYMENT WILL NOT BE EFFECTIVE FOR THIS BILL. PLEASE REMIT PAYMENT AS

Authorization Agreement for Direct Payments (ACH Debits) Company Name: Pennichuck Account #: I (we) hereby authorize Pennichuck Water Works, hereinafter called the Company, to initiate debit entries to my (our): Checking Account Savings Accounts indicated below and financial institute named below, and to debit the same to such account. Financial Institute Name: Branch: State: Zip: Routing #: Account #: This authorization is to remain in full force and effect until at such time I decide to discontinue this payment service and have notified the Company in such a manner as to afford the Company a reasonable opportunity to act on it.



Water Infrastructure and Conservation Adjustment

Pennichuck Water Works Inc.'s ("Pennichuck") primary goal is to provide exceptional service and delivery of quality water 24 hours a day, 365 days a year. We regularly evaluate the infrastructure of our systems to identify areas that require improvement. As part of Pennichuck's rate proceedings in 2010, the New Hampshire Public Utilities Commission (PUC) granted approval for Pennichuck to implement a Water Infrastructure and Conservation Adjustment (WICA) surcharge allowing Pennichuck to bill the surcharge to recover the costs of replacing aging infrastructure. The PUC order can be viewed here.

WICA covers the replacement of water mains, valves and hydrants that have either reached the end of their useful life or are negatively impacting water quality or service reliability. The benefits of the program to our customers are that it provides funding for a consistent replacement of aging infrastructure, which in turn increases reliability of service. The program also provides smaller rate increases for customers by permitting the recovery of the expenses associated with the replacement of aging infrastructure between rate cases. By making improvements now, we update valuable water assets while providing customers with continued water quality and service. The surcharge is limited to a maximum of a 2% increase in any one year with a maximum increase of 7.5% between rate cases.

In January of each year Pennichuck files a 3 year capital improvement plan for WICA related projects with the New Hampshire Public Utilities Commission. Pennichuck seeks approval of the three year WICA related capital improvements plan as well as approval of a surcharge to recover the expenses associated with the completion of WICA related capital improvements in the prior year.

Pennichuck will file a 3 year capital expenditure plan for proposed its' 2017-2019 WICA related projects with the PUC on or before January 31, 2017. The 2017-2019 proposed WICA related projects updates the plan filed with the PUC in January of 2016 for WICA related capital expenditures planned for 2016 to 2018. As part of the January 2017 WICA filing Pennichuck is requesting an increase in its WICA surcharge of 1.35% in addition to the 3.03% WICA Surcharge currently in effect.

Please note that Pennichuck filed with the PUC for a rate increase of 17.21% in September of 2016, of which 7.86% is associated with permanent increase and 9.4% is related to a Step increase. If the PUC grants a permanent increase requested by Pennichuck, then the WICA surcharge of 3.03% would be eliminated from your bill in favor of the granted permanent increase. If the PUC grants a Step increase the proposed June 2017 WICA surcharge of 1.33% would be eliminated from your bill in favor of the granted Step increase.



In the event that neither the permanent or Step rate increases requested by Pennichuck are granted by the PUC then the requested increase in the WICA surcharge, if approved by the PUC, would go into effect on customer bills issued after June 1, 2017. The requested increase in the surcharge for the 2016 WICA projects would result in the average single family residential bill increasing by approximately \$0.63 per month. The \$0.63 per month increase in addition to the current \$1.40 per month WICA surcharge currently in effect would result in a total monthly WICA surcharge of \$2.03 per month for the average single family residential bill.

If you have any questions or concerns related to Pennichuck's upcoming WICA filing, please contact Pennichuck Customer Service at 800-553-5191 or the New Hampshire Public Utilities Commission at 800-852-3793.

Source: http://www.pennichuck.com/wica.php

NHPUC NO. 6 Water

Fourth ThirdRevised Page 48

PENNICHUCK WATER WORKS, INC. Superseding Third Second Revised 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 4.69% 3.03% will apply to all bills issued on or after June 1, 20172016.

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 charge effective for all bills issued on or after June 1, 20162017, will be calculated to recover the fixed costs of eligible plant additions not previously reflected in the Company's rate base and placed in service between January 1, 2013 and December 31, 20162015. Thereafter, the WICA will be updated on an annual basis to reflect eligible plant additions placed in service during the prior calendar year. Thus, changes in the WICA rate will occur as follows:

Issued: June 1, 2017 2016

Effective: June 1, 2017 2016

Name: Donald L. Ware

Title: Chief Operating Officer

Fourth ThirdRevised Page 49
Superseding Third SecondRevised Page 49

Effective Date of WICA Change

Date To Which WICA Eligible Plant Additions Reflected

June 1

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, and giving consideration for any applicable cost of removal on a project by project basis.

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 times the year ending net book value of the eligible WICA infrastructure improvement projects. 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 property tax rate in effect at the end of the most recent year completed (the "tax rate"), and shall be applied to the cumulative year ending net book value of all eligible WICA projects included from the first year thru the end of the current year.

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, DW13-130, or a subsequent docket.

WICA Surcharge Amount: The charge will be expressed as a percentage carried to two 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.

Issued: June 1, <u>2017</u>2016 Issued by: _____

Effective: June 1, 2017 2016 Name: Donald L. Ware

Fourth ThirdRevised Page 50 Superseding Third SecondRevised Page 50

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

 $WICA = \underbrace{(ISI \times PTRR) + Dep + PT}_{BRWR}$

Where:

ISI = the original cost to the Company of eligible infrastructure system

improvement projects less accumulated depreciation.

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 13-130, or a

subsequent docket.

Annual updates: Supporting data for each annual update will be filed with the Commission and the Office of Consumer Advocate no later than January 31.

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.

Issued: June 1, <u>2017</u>2016 Issued by: _____

Effective: June 1, 20172016 Name: Donald L. Ware

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Superseding Third SecondRevised Page 51

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 notify Customers of the filing by including an explanatory bill insert with the bills. Before sending, the Company will review the notice with the Commission's Consumer Affairs division. Customers shall also be notified of changes in the WICA by including appropriate information with the first bill they receive following any change.

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 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, in accordance with the following schedule. The Company will submit updates for approved WICA projects for that year, based upon information known on a year-to-date basis, from the beginning of the year through the following effective dates, on the associated reporting dates:

	Effective Date	Reporting Date	
	March 31	April 15	
June 30		July 15	
September 30		October 15	
	November 30	December 15	
Issued:	June 1, 2017 2016	Issued by:	
Effective:	June 1, <u>2017</u> 2016	Name: Donald L. Ware Title: Chief Operating Officer	

Fourth Revised Page 48
Superseding Third Revised 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 4.69% will apply to all bills issued on or after June 1, 2017.

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 charge effective for all bills issued on or after June 1, 2017, will be calculated to recover the fixed costs of eligible plant additions not previously reflected in the Company's rate base and placed in service between January 1, 2013 and December 31, 2016. Thereafter, the WICA will be updated on an annual basis to reflect eligible plant additions placed in service during the prior calendar year. Thus, changes in the WICA rate will occur as follows:

Fourth Revised Page 49 Superseding Third Revised Page 49

Effective Date of WICA Change

Date To Which WICA Eligible Plant Additions Reflected

June 1

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, and giving consideration for any applicable cost of removal on a project by project basis.

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 times the year ending net book value of the eligible WICA infrastructure improvement projects. 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 property tax rate in effect at the end of the most recent year completed (the "tax rate"), and shall be applied to the cumulative year ending net book value of all eligible WICA projects included from the first year thru the end of the current year.

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, DW13-130, or a subsequent docket.

WICA Surcharge Amount: The charge will be expressed as a percentage carried to two 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.

Issued:	June 1, 2017	Issued by	<u> </u>
Effective:	June 1, 2017	Name:	Donald L. Ware
		Title:	Chief Operating Officer

Fourth Revised Page 50 Superseding Third Revised Page 50

Formula The formula for calculation of the WICA surcharge is as

follows:

 $WICA = \underbrace{(ISI \times PTRR) + Dep + PT}_{BRWR}$

Where:

ISI = the original cost to the Company of eligible infrastructure system

improvement projects less accumulated depreciation.

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 13-130, or a

subsequent docket.

Annual updates: Supporting data for each annual update will be filed with the Commission and the Office of Consumer Advocate no later than January 31.

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.

Issued: June 1, 2017 Issued by:

Effective: June 1, 2017 Name: Donald L. Ware

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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 notify Customers of the filing by including an explanatory bill insert with the bills. Before sending, the Company will review the notice with the Commission's Consumer Affairs division. Customers shall also be notified of changes in the WICA by including appropriate information with the first bill they receive following any change.

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 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, in accordance with the following schedule. The Company will submit updates for approved WICA projects for that year, based upon information known on a year-to-date basis, from the beginning of the year through the following effective dates, on the associated reporting dates:

Effective Date	Reporting Date	
March 31	April 15	
June 30	July 15	
September 30	October 15	
November 30	December 15	