BEFORE THE

NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

DW 17-___

Pennichuck Water Works, Inc.

DLW-1 SCHEDULE A PERM - MODIFIED

Pennichuck Water Works, Inc. Schedule A - Modified Computation of Revenue Deficiency Projected for 2018 through 2020 QCPAC surcharges

	requirm	Rate Revenue ent approved in DW16-806	2017 QCPAC Proformas (1,2)	Projected QCPAC surcharge of 2018	2018 QCPAC Proformas (1,2, 3)	Projected QCPAC surcharge of 2019	Step Rate For 2019 Capital Addition Profrmas (1,2)	Projected QCPAC surcharge of 2020
City Bond Fixed Revenue Requirement (CBFRR)	\$	7,729,032	\$ -	\$ 7,729,032	\$ -	\$ 7,729,032	\$ -	\$ 7,729,032
Operating Expense Revenue Requirement	\$	16,927,242	\$ 111,868	\$ 17,039,110	\$ 287,256	\$ 17,326,366	\$ 229,401	\$ 17,555,767
Annual Principal and Interest Payments	\$	6,218,648	\$329,110	\$ 6,547,758	\$699,596	\$ 7,247,354	\$633,341	\$ 7,880,695
Principal and Interest Coverage Requirement		1.10	1.10	1.10	1.10	1.10	1.10	1.10
Principal and Interest Revenue Requirement	\$	6,840,513	\$ 362,021	\$ 7,202,534	\$ 769,555	\$ 7,972,090	\$ 696,675	8,668,764
Proposed Revenue Requirement	\$	31,496,787		\$ 31,970,676		\$ 33,027,488		\$ 33,953,563
Current Water Revenues excluding CBFRR	\$	20,694,038		\$ 23,767,755		\$ 24,241,644		\$ 25,298,456
Add: City Bond Fixed Revenue Requirement	\$	7,729,032		\$ 7,729,032		\$ 7,729,032		\$ 7,729,032
Water Revenues with CBFRR	\$	28,423,070		\$ 31,496,787		\$ 31,970,676		\$ 33,027,488
Proposed Percent Revenue Increase (4)				1.50%		3.31%)	2.80%

Principal and Interest Coverage Requirement -

Notes:

(1) Step addition operating expenses adjusted for property taxes for QCPs added during the year

(2) QCPAC Principal and Interest expenses are based on

(3) QCPAC Principal and Interest expenses are based on
 (4) QCPAC percent revenue increases based on increase in revenues from the previous year.

year bond with interest rate of year SRF bond with a projected interest rate of

1.10

5.0%

2.46%

BEFORE THE

NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

DW 17-___

Pennichuck Water Works, Inc.

DLW-1 2017 STEP ADDITIONS

PWW0021- PWW0022

Pennichuck Water Works, Inc.
Interim QCPAC Filing update to Staff DR 2-21 - Projected 2017 Capital Additions filed on 1/18/2017
Updated with 9/30/2017 actuals and projections through 12/31/2017
11/17/2017

					Date of Funded in		funded by 2018 QCPAC	Capital \$\$				F	QCPAC Cligible
Market Market State Control of the C	Project Description		U		NHPUC DW16-806 Order Step	DW16-806, Staff 2-21	surcharge as of 11/17/2017	Funded in DW16-806 step	Community	Taxable	Tax Ra		nual Tax xpense Explanation for Change/Addition/Deletion since 1/18/2017
Project Name/Description Heavy Dump Truck Replacement (#12)	Repaire 15 year old Heavy Dump Truck (#12)				/7/2014 Yes	\$ 130,000		\$ 84,760	Merrimack	No	\$	- 5	 P&I and property taxes recovered in DW16-806 Step Increase
Add Aluminum Dump Body to Truck 312	Retrofit existing truck and add sander and plow				No	\$	\$ 15,740		Merrimack	No	\$	- 5	Project added in lieu of purchasing new small dump truckin 2018 for sanding and plov
Replace Aging Services	25 Renewed Services				/7/2014 Partial	\$ 80,000	Funded with 2014 Bond	\$ 31,716	Nashua	Yes		1.67 \$	 P&I and property taxes recovered in DW16-806 Step Increase 1.267 P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Replace Aging Services	25 Renewed Services		18 Bond V14-131	TBD ¹ 25,735 11	No /7/2014 Partial		\$ 40,000 Funded with 2014 Bond	s 17,197	Nashua Nashua	Yes Yes	*	1.67 \$	P&I and property taxes to be recovered in DW16-806 Step Increase
Replace Aging Hydrants	10 Hydrants Replacements 10 Hydrants Replacements		18 Bond	TBD ^L	No No	\$ 42,000	\$ 11,000		Nashua	Yes		1.67 \$	348 P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Replace Aging Hydrants	10 Valve Replacements	1	18 Bond	TBD ¹	No	\$ 30,000	\$ 50,000	s a	Nashua	Yes	\$	1.67 S	1,584 P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Replace Aging Valves New Services	New Services for Single Family Residential, owner build, per Tanil				/7/2014 Partial		Funded with 2014 Bond	s 15,804	Nashua	Yes	\$	1.67 \$	P&I and property taxes recovered in DW16-806 Step Increase
New Services	New Services for Single Family Residential, owner build, per Tanfi	2018	18 Bond	TBD'	No		\$ 34,537		Nashua	Yes		1.67 \$	1,094 P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Replace Leaded Brass Meters with Lead free brass meters	2,355 New Meters for Lead Meter exchanges (PWW-CORE & CWS) 5/8"-6'	DW	V14-131		/7/2014 Partial	\$ 832,000	Funded with 2014 Bond		Nashua	Yes		1.67 S	P&J and property taxes recovered in DW16-806 Step Increase
Replace Leaded Brass Meters with Lead free brass meters	2,355 New Meters for Lead Meter exchanges (PWW-CORE & CWS) 5/8"-6'		18 Bond	TBD'	No		\$ 247,266 Funded with 2014 Bond	\$ 12,893	Nashua Nashua	Yes Yes		1.67 \$	7,831 P&I and property taxes to be recovered in Interim 2017 QCPAC filing + P&I and property taxes recovered in DW16-806 Step Increase
Replace Aging meter reading Radioes	Replace 280 failed radios	1		25,735 11 TBD ¹	7/2014 Parial Remainder	\$	5 22,729		Nashua	Yes	*	1.67	720 P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Replace Aging meter reading Radioes	Replace 280 failed radios	1	8 Bond 8 Bond	TBD	No	s 10,500			Merrimack	No	\$	- 5	
Ferromagnetic Pipe locators (3)	Ferromagnetic Pipe leak detectors (3) Repalce 10 year old Heavy Dump Truck (#87)	l	18 Bond	TBD ¹	No	\$ 100,000	E		Merrimack	No	\$	- 5	
Heavy Dump Truck Replacement (#86) Service Truck replacement (#47)	Service Truck replacement (#47)		18 Bond	TBD1	No	s 60,000			Merrimack	No	\$	- S	- This vehicle was not retired. New Vehicle was purchased to accommodate new staff
Replacement of Foreman truck	Replacement of Foreman truck (#48)			Bond sought.	No QCPAC sought	s 90,000	\$	S -	Merrimack	No	\$	- S	 Delayed delivery until April 2018
Medium Duty Dump Truck Replacement (#71)	Replace 10 year old Medium Duty Dump Truck (#71)		8 Bond	TBD ¹	No	\$ 70,000	S 70,000	S	Merrimack	No	\$	- 5	*)
20 Ton Tag Trailer replacement	20 Ton Tag Trailer replacement				No QCPAC sought	\$ 20,000		5 27.000	Merrimack	No No	\$ \$	- 5	Deferred P&I and property taxes recovered in DW16-806 Step Increase
Variable Message Signs - 2	Customer Notification	ı		. ,	1/7/2014 Yes 1/7/2014 Yes	\$ 30,000 \$ 25,000	Funded with 2014 Bond Funded with 2014 Bond		Merrimack Merrimack	No	\$	- S	P&I and property taxes recovered in DW16-806 Step Increase
Replacement Radio Meter Reading Equipment (4)	Replace 10 year old radio meter reading handheld units Pipe Saws (5)	1	18 Bond	7BD ¹	No	\$ 6,000			Merrimack	No	\$	- S	Increase in cost due to purchase of "chain" pipe cutters vs. conventional cut off saw.
Pipe Saws (5) Metal Detectors (6)	Metal Detectors (6)		18 Bond	TBD ¹	No	s 7,000			Merrimack	No	\$	- s	*
Replacement Excavator	Replace 11 Year old Excavator (#87		18 Bond	TBD ^t	No	s 75,000			Merrimack	No	\$	- S	₽
Complete construction of 16 DW Highway	Final billing for the completion of work by contractor at 16 DW Highway		18 Bond	TBD ¹	No	S	s 67,050		Merrimack	Yes	\$	27.48 S	1,843 Billing from final work on 16 DW not carried over in original budget
Replace Truck #70	Replace 8 year old van with 90,124 miles	1	18 Bond	TBD ¹	No	š ~	32,034	S	Merrimack	No	\$	- S	£
MRX meter reading device	Replace failed CE meter reading device	100000	18 Bond	TBD^1	No	5 -	S 8,190	s -	Various	No	S	- S	- Existing 8 year old meter reading device failed
hua & Amherst Paving	Final paying associated with watermain projects				No	\$ 1,100,000			Nashua	Yes	S	- \$	- Budget Placeholder
Nashua & Amherst Paving	Park Street Water Main Replacement project paving	2018	18 Bond	TBD'	No		\$ 4,908	\$	Nashua	Yes	2	1.67 \$	155 Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Mulberry Street Water Main Replacement project paving	2018	18 Bond	TBD	No		5 6,840	\$ 18	Nashua	Yes	35	1.67 \$	217 Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Contribution to City of Nashua in lieu of final trench restoration - includes Rochette, Ash, and Marquis	2018	18 Bond	TBD'	No		\$ 120,000		Nashua	Yes	-	1 67 \$	3,800 Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Contribution to City of Nashua in lieu of final trench restoration - Lake St to end		18 Bond	TBD'	No		\$ 65,000		Nashua	Yes	S	1.67 S	2,059 Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Chestnut Street Phase II Water Main Replacement project paving	1	18 Bond	TBD'	No		\$ 65,780		Nashua	Yes	5	1.67	2,083 Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Scripture Street Water Main Replacement project paving	2018	18 Bond	TBD	No		\$ 11,200 \$ 44,561		Nashua Nashua	Yes Yes		1.67 S	355 Budgetted under Final Paving associated with water main replacement projects 1,411 Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Water Street Water Main Replacement project paving Bridle Path Water Main Replacement project paving	2016	18 Bond	TBD'	No		5 49,000		Nashua	Yes	100	31.67 \$	1,552 Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving Nashua & Amherst Paving	Tolles Street Water Main Replacement project paving	1	18 Bond	TBD'	No		S 45,500		Nashua	Yes	s	1.67 S	1,441 Budgetted under Final Paving associated with water main replacement projects
herst Street Project	Amherst Street Area Water Main Replacment Project												
Amherst Street Project - Amherst Street water main replacement	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Stree	DW	W16-236	25,887	4/26/2016 Partial		\$1,4M Funded with SRF, residual of \$89K to be funded with 2018 Bond	\$ 632,643	X 1	V		\$	PRI and according to your recovered in DW/16 906 Step Increase
Amherst Street Project - Amherst Street water main replacement	41						residual of \$89K to be funded with 2018 Bond		Nashua Nashua	Yes Yes	1.7	\$ 31,67 31,67 \$	P&I and property taxes recovered in DW16-806 Step Increase 16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing
	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Stree	DW	W16-236	25,888	4/26/2016		residual of \$89K to be	\$	Nashua Nashua Nashua Nashua	Yes Yes Yes	S	31,67	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Amherst Street Project - Berkshire Street water main replacement	41	DW DW		25,888 - 25,887 -		\$ 75,000	residual of \$89K to be funded with 2018 Bond \$ 510,000 \$ 196,000 \$ 75,000	\$ \$	Nashua Nashua Nashua	Yes Yes Yes	s s s	51.67 51.67 \$ 51.67 \$	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing
	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Stree Replace 570 LF of 6" CI Water main on Berkshire Stree	DW DW DW DW	V16-236 V16-236 V16-236 V16-236	25,888 25,887 25,887 25,887 4	4/26/2016 4/26/2016 4/26/2016 4/26/2016	S 75,000	residual of \$89K to be funded with 2018 Bond \$ 510,000 \$ 196,000 \$ 75,000 \$ 75,000	\$ \$ \$	Nashua Nashua Nashua Nashua	Yes Yes Yes Yes	S S S	\$1,67 \$1,67 \$1,67 \$1,67 \$1,67 \$	16,152 P&L and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&L and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&L and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&L and property taxes to be recovered in Interim 2017 QCPAC filing
Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hil	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Stree Replace 570 LF of 6" CI Water main on Berkshire Stree Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Bruce Stree New Supplemental Wel	DW DW DW DW 2018	V16-236 V16-236 V16-236 V16-236	25,888 - 25,887 - 25,887 - TBD ¹	4/26/2016 4/26/2016 4/26/2016 4/26/2016 No	\$ 75,000 \$ 80,000	residual of \$89K to be funded with 2018 Bond \$ 510,000 \$ 196,000 \$ 75,000 \$ 75,000 \$ 80,000	\$ \$ \$	Nashua Nashua Nashua Nashua Plaistow	Yes Yes Yes Yes	S S S	51.67 51.67 \$ 51.67 \$	16,152 P&L and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&L and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&L and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&L and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SRF funded carry over project fron 2020
Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hill Pennichuck Bog - Educational Program Accessway	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Stree Replace 570 LF of 6" CI Water main on Berkshire Stree Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Tercace Ave Replace 260 LF of 6" Unlined CI Water main on Bruce Stree New Supplemental Wel Construct Nature Walk around Pennichuck Bog	DW DW DW 2018	V16-236 V16-236 V16-236 V16-236 V16-236 U8 Bond Deferred. No	25,888 - 25,887 - 25,887 - 25,887 - TBD ¹ D Bond sought.	4/26/2016 4/26/2016 4/26/2016 4/26/2016 No No QCPAC sought.	\$ 75,000 \$ 80,000 \$ 38,000	residual of \$89K to be funded with 2018 Bond \$ 510,000 \$ 196,000 \$ 75,000 \$ 75,000 \$	\$ \$ \$ \$	Nashua Nashua Nashua Nashua Plaistow Nashua	Yes Yes Yes Yes Yes	S S S	\$1,67 \$1,67 \$1,67 \$1,67 \$1,67 \$	16,152 P&L and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&L and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&L and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&L and property taxes to be recovered in Interim 2017 QCPAC filing
Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hil Pennichuck Bog - Educational Program Accessway Gilman Street	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Stree Replace 570 LF of 6" CI Water main on Berkshire Stree Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Bruce Stree New Supplemental Wel Construct Nature Walk acound Pennichuck Bog Replace 8 & 6 in CI with 1225 If of 8 inch CLD	DW DW DW 2018 I I	W16-236 W16-236 W16-236 W16-236 B Bond Deferred, No	25,888 - 25,887 - 25,887 - 25,887 - TBD ¹ D Bond sought. D Bond sought.	4/26/2016 4/26/2016 4/26/2016 4/26/2016 No	\$ 75,000 \$ 80,000	residual of \$89K to be funded with 2018 Bond \$ 510,000 \$ 196,000 \$ 75,000 \$ 75,000 \$ 80,000 \$ \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	Nashua Nashua Nashua Nashua Plaistow	Yes Yes Yes Yes	S S S	\$1,67 \$1,67 \$1,67 \$1,67 \$1,67 \$1,67 \$26,88 \$	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SKP funded carry over project fron 2020 Deferred
Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hill Pennichuck Bog - Educational Program Accessway Gilman Street Amherst Mack Hill & Dodge	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Stree Replace 570 LF of 6" CI Water main on Berkshire Street Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Bruce Street New Supplemental Wel Construct Nature Walk around Pennichuck Bog Replace 8 & 6 in CI with 1225 If of 8 inch CLLDI Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd	DW DW DW 2018 I I	W16-236 W16-236 W16-236 W16-236 I8 Bond Deferred, No Deferred, No	25,888 25,887 25,887 25,887 25,887 TBD ¹ D Bond sought. D Bond sought.	4/26/2016 4/26/2016 4/26/2016 4/26/2016 No No QCPAC sought. No QCPAC sought.	\$ 75,000 \$ 80,000 \$ 38,000 \$ 425,000	residual of \$89K to be funded with 2018 Bond \$ 510,000 \$ 196,000 \$ 75,000 \$ 75,000 \$ 80,000 \$ \$ 80,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	Nashua Nashua Nashua Nashua Plaistow Nashua Nashua	Yes Yes Yes Yes Yes No Yes	\$ \$ \$ \$ \$ \$	51.67 51.67 51.67 51.67 51.67 51.67 51.67 51.67 51.67 51.67 51.67 51.67 51.67	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SRF funded carry over project fron 2020 Deferred Deferred Deferred until 2018 Deferred until future date in coordination with Town Storm Drain project Project deferred indefinitely.
Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hil Pennichuck Bog - Educational Program Accessway Gilman Street	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street Replace 570 LF of 6" CI Water main on Berkshire Street Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Tercace Ave Replace 260 LF of 6" Unlined CI Water main on Bruce Street New Supplemental Wel Construct Nature Walk around Pennichuck Bop Replace 8 & 6 in CI with 1225 If of 8 inch CLD Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd Replace 25 Yr old below ground confuned space booster station w/above ground station Increase pumping capacity to meet existing demands and contractual obligations	DW DW DW 2018 I I I	W16-236 W16-236 W16-236 W16-236 I8 Bond Deferred, No Deferred, No	25,888 25,887 25,887 25,887 25,887 TBD ¹ D Bond sought. D Bond sought.	4/26/2016 4/26/2016 4/26/2016 4/26/2016 No No QCPAC sought. No QCPAC sought. No QCPAC sought. No QCPAC sought.	\$ 75,000 \$ 80,000 \$ 38,000 \$ 425,000 \$ 300,000 \$ 550,000 \$ 125,000	residual of \$89K to be funded with 2018 Bond \$ 510,000 \$ 196,000 \$ 75,000 \$ 75,000 \$ 80,000 \$ \$ 80,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ - \$ 5 - \$ 5 - \$ 5 5 5 5 5 5 5 5 5 5 5	Nashua Nashua Nashua Nashua Plaistow Nashua Nashua Amherst Amherst	Yes Yes Yes Yes No Yes Yes	\$ \$ \$ \$ \$ \$	51.67 S 51.67 S 51.67 S 51.67 S 51.67 S 51.67 S 51.67 S	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SRF funded carry over project fron 2020 Deferred Deferred Deferred until 2018 Deferred until future date in coordination with Town Storm Drain project Project deferred indefinitely.
Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hill Pennichuck Bog - Educational Program Accessway Gilman Street Amherst Mack Hill & Dodge Milford Booster Station Replacement Snow Station Upgrade - Add 3rd pump	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street Replace 570 LF of 6" CI Water main on Berkshire Street Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Tercace Ave Replace 260 LF of 6" Unlined CI Water main on Tercace Ave New Supplemental Wel Construct Nature Walk around Pennichuck Bog Replace 8 & 6 in CI with 1225 If of 8 inch CLDI Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd Replace 25 Yr old below ground confused space booster station w/above ground station Increase pumping capacity to meet existing demands and contractual obligations Aging infrastructure replacement in coordination with sewer replacement	DW DW DW 2018 I I I I 2018	V16-236 V16-236 V16-236 V16-236 I8 Bond Deferred. No Deferred. No Deferred. No Deferred. No	25,888 25,887 25,887 25,887 1TBD ¹ D Bond sought. D Bond sought. D Bond sought. TBD ¹	4/26/2016 4/26/2016 4/26/2016 1/26/2016 No No QCPAC sought. No QCPAC sought. No QCPAC sought. No QCPAC sought.	\$ 75,000 \$ 80,000 \$ 38,000 \$ 425,000 \$ 300,000 \$ 550,000	residual of \$89K to be funded with 2018 Bond \$ 510,000 \$ 196,000 \$ 75,000 \$ 80,000 \$ \$ 80,000 \$ \$ \$ \$ 13,323	\$ - \$ 5 - \$ 5 - \$ 5 5 5 5 5 5 5 5 5 5 5	Nashua Nashua Nashua Nashua Plaistow Nashua Nashua Amherst Amherst Nashua Nashua	Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$1,67 \$ \$1,67	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SRF funded carry over project fron 2020 Deferred Deferred Deferred until 2018 Deferred until future date in coordination with Town Storm Drain project Project deferred indefinitely. 422 Analysis showed that rebuilding existing pumps would provide the initial capacity re
Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hill Pennichuck Bog - Educational Program Accessway Gilman Street Amherst Mack Hill & Dodge Milford Booster Station Replacement Snow Station Upgrade - Add 3rd pump	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street Replace 570 LF of 6" CI Water main on Berkshire Street Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Bruce Street New Supplemental Wel Construct Nature Walk around Pennichuck Bog Replace 8 & 6 in CI with 1225 If of 8 inch CLDI Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd Replace 25 Yr old below ground confined space booster station w/above ground station Increase pumping capacity to meet existing demands and contractual obligations Aging infrastructure replacement in coordination with sewer replacement Replaced 262 LF/72 If of 4" unlined CI/ 6 in unlined cast iron with 8" DIPCL on Warren Street	DW DW DW 2018 I I I 2018	V16-236 V16-236 V16-236 V16-236 I8 Bond Deferred. No Deferred. No Deferred. No Deferred. No 18 Bond	25,888 25,887 25,887 25,887 Department of the sought of Bond sough	4/26/2016 4/26/2016 4/26/2016 1/26/2016 No No QCPAC sought. No QCPAC sought. No QCPAC sought. No QCPAC sought.	\$ 75,000 \$ 80,000 \$ 38,000 \$ 425,000 \$ 300,000 \$ 550,000 \$ 125,000	residual of \$89K to be funded with 2018 Bond \$ 510,000 \$ 196,000 \$ 75,000 \$ 75,000 \$ \$ 80,000 \$ \$ 8,000 \$ \$ 13,323	\$ - \$ - \$ 5 - \$ 5 5 5 5 5 5 5 5 5 5 5 5	Nashua Nashua Nashua Plaistow Nashua Nashua Amherst Amherst Nashua Nashua	Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$1,67 \$ \$1,67 \$ \$1,67 \$ \$1,67 \$ \$1,67 \$ \$26,88 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SIRF funded carry over project fron 2020 Deferred Deferred until 2018 Deferred until future date in coordination with Town Storm Drain project Project deferred indefinitely. 422 Analysis showed that rebuilding existing pumps would provide the initial capacity rec 1,900 \$20,000 for final paving in 2018
Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hil Pennichuck Bog - Educational Program Accessway Gilman Street Amherst Mack Hill & Dodge Milford Booster Station Replacement Snow Station Upgrade - Add 3rd pump Sewer Projects - TBD Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street Replace 570 LF of 6" CI Water main on Berkshire Street Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Bruce Street New Supplemental Wel Construct Nature Walk around Pennichuck Bog Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd Replace 25 Yr old below ground confined space booster station w/above ground station Increase pumping capacity to meet existing demands and contractual obligations Aging infrastructure replacement in coordination with sewer replacement Replaced 262 LF/72 If of 4" unlined CI/ 6 in unlined cast iron with 8" DIPCL on Warren Street Replaced 435 LF of 6" CI with 6" DIPCL on Lowell Street	DW DW DW 2018 I I I 2018 2018	V16-236 V16-236 V16-236 V16-236 I8 Bond Deferred. No Deferred. No Deferred. No Deferred. No I8 Bond	25,888 25,887 25	4/26/2016 4/26/2016 4/26/2016 1/26/2016 No No QCPAC sought. No QCPAC sought. No QCPAC sought. No QCPAC sought. No QCPAC sought.	\$ 75,000 \$ 80,000 \$ 38,000 \$ 425,000 \$ 300,000 \$ 550,000 \$ 125,000	residual of \$89K to be funded with 2018 Bond \$	\$ - \$ - \$ 5 - \$ 5 - \$ 5 5 5 5 5 5 5 5 5	Nashua Nashua Nashua Nashua Plaistow Nashua Nashua Amherst Amherst Nashua Nashua	Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	31,67 \$ 31,67 \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SRF funded carry over project fron 2020 Deferred Deferred until 2018 Deferred until future date in coordination with Town Storm Drain project Project deferred indefinitely. 422 Analysis showed that rebuilding existing pumps would provide the initial capacity rec 1,900 \$20,000 for final paving in 2018 1,900 \$38,500 for final paving in 2018
Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hill Pennichuck Bog - Educational Program Accessway Gilman Street Amherst Mack Hill & Dodge Milford Booster Station Replacement Snow Station Upgrade - Add 3rd pump Sewer Projects - TBD Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street Replace 570 LF of 6" CI Water main on Berkshire Street Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Bruce Street New Supplemental Well Construct Nature Walk around Pennichuck Bog Replace 8 & 6 in CI with 1225 If of 8 inch CLDI Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd Replace 25 Yr old below ground confined space booster station w/above ground station Increase pumping capacity to meet existing demands and contractual obligations Aging infrastructure replacement in coordination with sewer replacement Replaced 262 LF/72 If of 4" unlined CI/ 6 in unlined cast iron with 8" DIPCL on Warren Street Replaced 435 LF of 6" CI with 6" DIPCL on Lowell Street Replaced 125 LF of 6" CI with 6" DIPCL on Green Street	DW DW DW 2018 I I I 2018 2018 2018	W16-236 W16-236 W16-236 W16-236 BB Bond Deferred. No Deferred. No Deferred. No Deferred. No 18 Bond 18 Bond 18 Bond	25,888 25,887 25,887 25,887 De Bond sought. De Bond sought. De Bond sought. TBD¹ TBD¹ TBD¹ TBD¹	4/26/2016 4/26/2016 4/26/2016 1/26/2016 No No QCPAC sought. No QCPAC sought. No QCPAC sought. No QCPAC sought. No QCPAC sought. No No	\$ 75,000 \$ 80,000 \$ 38,000 \$ 425,000 \$ 300,000 \$ 550,000 \$ 125,000	residual of \$89K to be funded with 2018 Bond \$ 510,000 \$ 196,000 \$ 75,000 \$ 75,000 \$ 80,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ - \$ - \$ 5 - \$ 5 - \$ 5 5 5 5 5 5 5 5 5	Nashua Nashua Nashua Nashua Plaistow Nashua Amherst Amherst Nashua Nashua Nashua Nashua	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	31,67 \$ 31,67 \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$ 31,67 \$ \$	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SRF funded carry over project fron 2020 Deferred Deferred until 2018 Deferred until future date in coordination with Town Storm Drain project Project deferred indefinitely. 422 Analysis showed that rebuilding existing pumps would provide the initial capacity rec 1,900 \$20,000 for final paving in 2018 1,900 \$38,500 for final paving in 2018 855 Including final paving
Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hill Pennichuck Bog - Educational Program Accessway Gilman Street Amherst Mack Hill & Dodge Milford Booster Station Replacement Snow Station Upgrade - Add 3rd pump Sewer Projects - TBD Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street Replace 570 LF of 6" CI Water main on Berkshire Street Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Bruce Street New Supplemental Wel Construct Nature Walk around Pennichuck Bog Replace 8 & 6 in CI with 1225 If of 8 inch CLD Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd Replace 25 Yr old below ground confined space booster station w/above ground station Increase pumping capacity to meet existing demands and contractual obligations Aging infrastructure replacement in coordination with sewer replacement Replaced 262 LF/72 If of 4" unlined CI/ 6 in unlined cast iron with 8" DIPCL on Warren Street Replaced 435 LF of 6" CI with 6" DIPCL on Lowell Street Replaced 125 LF of 6" CI with 6" DIPCL on Beard Street	DW DW DW 2018 I I I 2018 2018 2018 2018 2018	W16-236 W16-236 W16-236 W16-236 W16-236 Deferred. No	25,888 25,887 25	4/26/2016 4/26/2016 4/26/2016 No No QCPAC sought. No No No	\$ 75,000 \$ 80,000 \$ 38,000 \$ 425,000 \$ 300,000 \$ 550,000 \$ 125,000	residual of \$89K to be funded with 2018 Bond \$	\$ - \$ - \$ 5 - \$ 5 - \$ 5 - \$ 5 5 5 5 5 5	Nashua Nashua Nashua Nashua Plaistow Nashua Amherst Amherst Amherst Nashua Nashua Nashua Nashua Nashua	Yes Yes Yes Yes No Yes	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	31,67 S 31,67 S 31,67 S 31,67 S 31,67 S 31,67 S 31,67 S 31,67 S	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SRF funded carry over project fron 2020 Deferred Deferred until 2018 Deferred until future date in coordination with Town Storm Drain project Project deferred indefinitely. 422 Analysis showed that rebuilding existing pumps would provide the initial capacity re 1,900 \$20,000 for final paving in 2018 1,900 \$38,500 for final paving in 2018 855 Including final paving 2,375 Includes paving
Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Pennichuck Bog - Educational Program Accessway Gilman Street Amherst Mack Hill & Dodge Milford Booster Station Replacement Snow Station Upgrade - Add 3rd pump Sewer Projects - TBD Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street Replace 570 LF of 6" CI Water main on Berkshire Street Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Bruce Street New Supplemental Wel Construct Nature Walk around Pennichuck Bog Replace 8 & 6 in CI with 1225 If of 8 inch CLDI Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd Replace 25 Yr old below ground confined space booster station w/above ground station Increase pumping capacity to meet existing demands and contractual obligations Aging infrastructure replacement in coordination with sewer replacement Replaced 262 LF/72 If of 4" unlined C1/ 6 in unlined cast iron with 8" DIPCL on Warren Street Replaced 435 LF of 6" CI with 6" DIPCL on Lowell Street Replaced 125 LF of 6" CI with 6" DIPCL on Beard Street Replaced 230 LF of 8" CI with 6" DIPCL on Beard Street Replaced 239 LF/29 LF of 4" CI /1.25" steel with 4" PVC on Lemon Street	DW DW DW 2018 1	W16-236 W16-236 W16-236 W16-236 W16-236 Deferred. No Defe	25,888 25,887 27,807 27	4/26/2016 4/26/2016 4/26/2016 No No QCPAC sought. No No No No No	\$ 75,000 \$ 80,000 \$ 38,000 \$ 425,000 \$ 300,000 \$ 550,000 \$ 125,000	residual of \$89K to be funded with 2018 Bond \$	\$ - \$ - \$ 5	Nashua Nashua Nashua Nashua Plaistow Nashua Amherst Amherst Amherst Nashua Nashua Nashua Nashua Nashua Nashua	Yes Yes Yes Yes No Yes	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	31,67 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SKF funded carry over project fron 2020 Deferred Deferred Deferred until 2018 Deferred until future date in coordination with Town Storm Drain project Project deferred indefinitely. 422 Analysis showed that rebuilding existing pumps would provide the initial capacity re 1,900 \$20,000 for final paving in 2018 1,900 \$38,500 for final paving in 2018 855 Including final paving
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Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hill Pennichuck Bog - Educational Program Accessway Gilman Street Amherst Mack Hill & Dodge Milford Booster Station Replacement Snow Station Upgrade - Add 3rd pump Sewer Projects - TBD Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street Replace 570 LF of 6" CI Water main on Berkshire Street Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Terrace Ave Replace 260 LF of 6" Unlined CI Water main on Bruce Street New Supplemental Well Construct Nature Walk accound Pennichuck Bog Replace 8 & 6 in CI with 1225 If of 8 inch CLDI Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd Replace 25 Yr old below ground confined space booster station w/above ground station Increase pumping capacity to meet existing demands and contractual obligations Aging infrastructure replacement in coordination with sewer replacement Replaced 262 LF/72 If of 4" unlined CI/ 6 in unlined cast iron with 8" DIPCL on Warren Street Replaced 350 LF of 6" CI with 6" DIPCL on Lowell Street Replaced 350 LF of 8" CI with 6" DIPCL on Beard Street Replaced 330 LF of 8" CI with 6" DIPCL on Beard Street Replaced 239 LF/29 LF of 4" CI /1.25" steel with 4" PVC on Lemon Street Replaced 351 LF/81 LF of 2" steel/1.25" with 4" PVC on Proctor Street Replaced 371 LF of " CI with 8" DIPCL on Temple Street	DW DW DW 2018 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W16-236 W16-236 W16-236 W16-236 W16-236 B Bond Deferred. No Deferred. No Deferred. No Deferred. No B Bond	25,888 25,887 27,807 27	4/26/2016 4/26/2016 4/26/2016 No No QCPAC sought. No No No No No	\$ 75,000 \$ 80,000 \$ 38,000 \$ 425,000 \$ 300,000 \$ 550,000 \$ 125,000	residual of \$89K to be funded with 2018 Bond \$	\$ - \$ - \$ 5	Nashua Nashua Nashua Nashua Plaistow Nashua Amherst Amherst Amherst Nashua Nashua Nashua Nashua Nashua Nashua	Yes Yes Yes Yes No Yes	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	81.67 S 81.67 S	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SRF funded carry over project fron 2020 Deferred Deferred Deferred until 2018 Deferred until future date in coordination with Town Storm Drain project Project deferred indefinitely. 422 Analysis showed that rebuilding existing pumps would provide the initial capacity re 1,900 \$20,000 for final paving in 2018 1,900 \$38,500 for final paving in 2018 855 Including final paving 958 \$17,000 for final paving in 2018 1,615 Excludes final paving
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No Deferred. No Deferred. No I8 Bond	25,888 25,887 25,887 25,887 25,887 25,887 25,887 25,887 25,887 25,887 25,887 25,887 25,887 26,887 27 28,887 27 28,887 28,	A/26/2016 A/26/2016 A/26/2016 A/26/2016 No No QCPAC sought. No QCPAC sought. No QCPAC sought. No	\$ 75,000 \$ 80,000 \$ 38,000 \$ 425,000 \$ 550,000 \$ 125,000 \$ 400,000 \$ 300,000 \$ 300,000 \$ 300,000 \$ 400,000	residual of \$89K to be funded with 2018 Bond \$	\$ - \$ 5 - \$	Nashua Nashua Nashua Nashua Plaistow Nashua Nashua Amherst Amherst Nashua	Yes Yes Yes Yes No Yes	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	81.67 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SRF funded carry over project fron 2020 Deferred Deferred until 2018 Deferred until future date in coordination with Town Storm Drain project Project deferred indefinitely. 422 Analysis showed that rebuilding existing pumps would provide the initial capacity re 1,900 \$20,000 for final paving in 2018 1,900 \$38,500 for final paving in 2018 855 Including final paving 2,375 Includes paving 958 \$17,000 for final paving in 2018 1,615 Excludes final paving 4,785 3,367 Excludes final paving Deferred until 2018, Part of improvements to Northwest High Pressure System Indivitual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indivitual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indivitual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indivitual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indivitual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indivitual Streets Part of 2017 Main Street Areaa Water Main Replacement Project
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Amherst Street Project - Berkshire Street water main replacement Amherst Street Project - Terrace Ave. water main replacement Amherst Street Project - Bruce Street water main replacement Sweet Hil Pennichuck Bog - Educational Program Accessway Gilman Street Amherst Mack Hill & Dodge Milford Booster Station Replacement Snow Station Upgrade - Add 3rd pump Sewer Projects - TBD Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project Water main replacement in conjunction with City Sewer Project 24" watermain from Manchester Street to Tinker Road Water main replacement in conjunction with City Sewer Project 24" watermain from Manchester Street to Tinker Road Water main replacement - Phase I 2017 Main Street Area Water Main Replacement - Phase I 2017 Main Street Area Water Main Replacement - Phase I 2017 Main Street Area Water Main Replacement - Phase II 2017 Main Street Area Water Main Replacement - Phase II	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street Replace 570 LF of 6" CI Water main on Berkshire Street Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Tercace Ave Replace 260 LF of 6" Unlined CI Water main on Tercace Ave Replace 260 LF of 6" Unlined CI Water main on Tercace Ave New Supplemental Wel Construct Nature Walk around Pennichuck Bog Replace 8 & 6 in CI with 1225 lf of 8 inch CLDI Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd Replace 25 Yr old below ground confined space booster station w/above ground station Increase pumping capacity to meet existing demands and contractual obligations Aging infrastructure replacement in coordination with sewer replacement Replaced 262 LF/72 lf of 4" unlined C1/ 6 in unlined cast iron with 8" DIPCL on Warren Street Replaced 435 LF of 6" CI with 6" DIPCL on Lowell Street Replaced 125 LF of 6" CI with 6" DIPCL on Beard Street Replaced 330 LF of 8" CI with 6" DIPCL on Beard Street Replaced 239 LF/29 LF of 4" CI /1.25" steel with 4" PVC on Lemon Street Replaced 351 LF/81 LF of 2" steel/1.25" with 4" PVC on Proctor Street Replaced 371 LF of "CI with 8" DIPCL on Temple Street Replaced 371 LF of "CI with 8" DIPCL on Mulvanity Street Add 1800 If of 24 inch CLDI on Manchester Street Easement to Tinker Road Close loop on 101A end of main to beyond Truell and loop onto Truell 1200 If Fowell - Zellwood - Pratt replace 1720 If of 6" CI with 8" DIPCL Replaced 544 LF of 6" CI with 8" DIPCL on Buchanan Avenue Replaced 360 LF of 6" CI with 4" PVC on Fowell Street Replaced 360 LF of 6" CI with 8" DIPCL on Pratt Street Replaced 715 LF of 6" CI with 4" DIPCL on Pratt Street Replaced 715 LF of 6" CI with 8" DIPCL on Dratt Street Replaced 715 LF of 6" CI with 8" DIPCL on Dratt Street Replaced 715 LF of 6" CI with 8" DIPCL on Lincoln Street Replaced 715 LF of 4" CI/ 50 LF of 1.25" steel/40 LF of 1" CI with 8" DIPCL/4" PVC on Nutt Street Replaced 715 LF of 4" CI/ 50 LF of 1.25" steel/40 LF of 1" CI with 8" DIPCL/4" PVC on Nut	DW DW DW 2018 2018	V16-236 V16-236 V16-236 V16-236 V16-236 I8 Bond Deferred. No Deferred. No Deferred. No I8 Bond	25,888 25,887 25,887 25,887 25,887 25,887 25,887 25,887 25,887 25,887 25,887 25,887 25,887 25,887 26,887 27 28,887 28,887 29,887 20,887	A/26/2016 A/26/2016 A/26/2016 A/26/2016 No No QCPAC sought. No QCPAC sought. No QCPAC sought. No QCPAC sought. No	\$ 75,000 \$ 80,000 \$ 38,000 \$ 425,000 \$ 550,000 \$ 125,000 \$ 400,000 \$ 500,000 \$ 300,000 \$ 300,000 \$ 300,000	residual of \$89K to be funded with 2018 Bond \$ \$ 196,000 \$ 196,000 \$ 75,000 \$ 80,000 \$ \$ \$ 13,323 \$ 60,000 \$ 27,000 \$ 75,000 \$ 75,000 \$ 151,003 \$ 15	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Nashua Nashua Nashua Nashua Plaistow Nashua Nashua Amherst Amherst Nashua	Yes Yes Yes Yes No Yes	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	81.67 \$ 8.1.67	16,152 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 6,207 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,375 P&I and property taxes to be recovered in Interim 2017 QCPAC filing 2,150 SRF funded carry over project fron 2020 Deferred Deferred until 2018 Deferred until future date in coordination with Town Storm Drain project Project deferred indefinitely. 422 Analysis showed that rebuilding existing pumps would provide the initial capacity rec 1,900 \$20,000 for final paving in 2018 1,900 \$38,500 for final paving in 2018 855 Includes paving 958 \$17,000 for final paving 2,375 Includes paving 958 \$17,000 for final paving in 2018 1,615 Excludes final paving 4,785 3,367 Excludes final paving Deferred until 2018, Part of improvements to Northwest High Pressure System Deferred until 2018, Part of improvements to Northwest High Pressure System Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets Part of 2017 Main Street Areaa Water Main Replacement Project - Indiviual Streets P

						Estimated Project Cost as of	Estimated Cost to be						QCPAC
		T2' '	MIDUC	Date of	Funded in	1/18/2017 per	unded by 2018 QCPAC	Capital \$\$					Bigible nual Tax
Project Name/Description	Project Description	Financing Work Order #3 Docket No	NHPUC Order No.		DW16-806 Step	DW16-806, Staff 2-21	surcharge as of 11/17/2017	Funded in DW16-806 step	Community	Taxable	Tax		
Route 101 Widening, Bedford	Relcated water main along Nashua Road	2018 Bono	1	TBD ¹	No		43,100	12	Bedford	Yes	\$	28,97 \$	1,249 NHDOT project that was added in Spring of 2017
Route 101 Widening, Bedford	Relocate water main on Bell Hill Road	2018 Bono		TBD ^t	No		15,400		Bedford	Yes	\$	28,97 \$	446 NHDOT project that was added in Spring of 2017
Route 101 Widening, Bedford	Relocate Service to 3 Nashua Road	2018 Bond		TBD'	No		67,400		Bedford	Yes	S	28.97 \$	- The state of the
Route 122 @ Nathan Lord Lane Water Main Relocation	Water Main Relocation to accommodate Town of Amherst Storm Drain installation	2018 Bond		LBD ₁	No	\$			Amherst	Yes	\$	29.47 \$	1,610 Town of Amherst Storm Drain project added in Fall of 2017
Trimble Devices - Used for field locating Assets via GIS program	Upgrade to Ipad device driven units	2018 Bond		LBD,	No	S 72,000			Merrimack	Yes	\$	27.48 \$	· ·
Engineering Replacement Vehicles (2)	Replace 2 Vehicles Distribution Model Phase 2	DW14-130	,	11/7/2014 ought: No QCPA	Yes C sought	\$ 64,000 \$ 25,000	Funded with 2014 Bond	54,689	Merrimack Merrimack				P&I and property taxes recovered in DW16-806 Step Increase Project underway, will not be used and useful in 2017
Complete PWW Core System Hydraulic Model PWW-PEU Interconnection - DW Highway to River	DW Highway to Merrimack River Booster station			ought. No QCPA		\$ 311,500	, S - 5		Merrimack				Deferred to 2018 due to timing of final NHDES permitting
WTP - Conversion to LED Lighting	WTP - Conversion to LED Lighting			ought. No QCPA		\$ 80,000	S - S		Nashua				Deferred, staff time not available to complete in 2017
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements	DW14-131	-				Funded with 2014 Bond	18,383	Derry	Yes			P&I and property taxes recovered in DW16-806 Step Increase
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements	2018 Bond		TBD'	No	\$ 60,000	38,000		Derry	Yes	s		1,194 Projected through year end
Booster/Well/Chem Feed pump replacements	Replace VFD on Twin Ridge Well	2018 Bond		TBD ¹ ought: No QCPA	No C sought	\$ 15,000	2,089		Plaistow Derry	Yes	S	26.88 \$	56 Budgetted under Booster/Well/Chem Feed pump replacement Budget place holder. No treatment system installs/replacement YTD
Install/replace treatment systems in small CWS Misc, Structural Improvements	Install/replace treatment systems in small CWS Misc, Structural Improvements			ought. No QCPA		\$ 20,000			Nashua				Budget place holder. No structural improvements YTD
Replace Vehicle #61	Replace 7 year old truck with 110,691 miles	2018 Bond		IBD'	No	\$ 60,000	45,000	- 2	Nashua	No			
Replace Vehicle #62	Replace 7 year old truck with 132,954 miles	2018 Bond	1	TBD ¹	No	\$ 60,000	45,000	-	Nashua	No			
Replace Vehicle #49	Replace 7 year old truck with 106,100 miles	2018 Bono	1	TBD ¹	No	\$ 35,000	35,000	: :	Nashua	No			
Replace vehicle #204	Replace 6 year old truck with 178,290 miles	2018 Bono		TBD¹	No	\$ 60,000	45,000	ın.	Nashua	No			Change from beginning of budget year as to type of vehicle being replaced
Replace Vehicle #63	Replace 7 year old truck with 111,923 miles	2018 Bono		TBD ¹	No	\$ 35,000	35,000		Nashua	No			
Replace Vehicle #44	Replace 9 year old truck with 191,355 miles	2018 Bond		TBD ¹	No	S -			Nashua	No			
Install overhead crane and door-WTP process area	install overhead crane and door-WTP process area	2018 Bono		TBD ¹	No	\$ 75,000	75,000		Nashua	Yes	\$	31.67 \$ 27.48 \$	Transport of the second of the
Merrimack River Station pump/motor rebuild	Merrimack River Station pump/motor rebuild WTP misc. equipment purchases	2018 Bono	1	TBD¹	No	S 75,000 S 25,000		,	Merrimack	108	3:	21.40	087 Motor rebuild less expensive man anocipated
	Purchase New Electric Muilti-Meter	2018 Bono		TBDi	No	S -			Nashua	No	s	31.67 \$	48 Budgetted under WTP Misc equipmnet purchased
Misc, equipment purchases Misc, equipment purchases	Install mixer in Bon Terrain Tank	2018 Bond		IBD¹	No	s =	2,600		Amherst	Yes	S	29.47 S	77 Budgetted under WTP Misc equipmnet purchased
Misc, equipment purchases	Replace VFD on Sludge Chopper Pump at WTP	2018 Bono		LBD ₁	No	s -	3,503		Nashua	Yes	s	31,67 \$	111 Budgetted under WTP Misc equipmnet purchased
Misc. equipment purchases	WTP - Replace 30" IP Discharge Meter	2018 Bono		TBD ¹	No	S -	5 17,177 5		Nashua	Yes	5	31.67 \$	544 Budgetted under WTP Misc equipmnet purchased
Purchase new lab equipment	Purchase new lab equipment					\$ 15,000	5 - 5	:-	Nashua				
Purchase new lab equipment	Hanna Titrator	2018 Bond		TBD	No	S -	5,900		Nashua	No			Budgetted under Purchase new lab equipment
WTP structural/HVAC	Replaced Compressor on A/C Unit FWPS	2018 Bond	-	TBD ¹	No	\$ 10,000	5,568		Nashua	Yes			Pudant alica haldan Na Man Fancias/Sequestry Projects VTD
Misc Security upgrades for remote facilities	Misc. Fencing/Security Projects Replace Clarifier (2)Vacuum Blowers and Actuators			ought. No QCPA		\$ 25,000 \$ 25,000			Nashua Nashua	Yes			Budget place holder. No Misc. Fencing/Security Projects YTD Deferred
Replace Clarifier (2) Vacuum Blowers and Actuators Misc. SCADA Electrical upgrades		Deterr						ř					
	Misc. SCADA Electrical			ought the gents		\$ 30,000	S - 5		Nashua	Yes			
H	Misc. SCADA Electrical Valleyfield - Install Cellular Communication	2018 Bono		IBD'	No	\$ 30,000 \$	5,000		Nashua Plaistow	Yes	s	26.88 \$	134 Budgetted under Misc, SCADA Electrical upgrades
Misc. SCADA Electrical upgrades Misc. SCADA Electrical upgrades		2018 Bonc 2018 Bonc	1				5,000				s s	26.88 \$ 31.67 \$	134 Budgetted under Misc. SCADA Electrical upgrades744 Budgetted under Misc. SCADA Electrical upgrades
Misc. SCADA Electrical upgrades Misc. SCADA Electrical upgrades Misc. SCADA Electrical upgrades	Valleyfield - Install Cellular Communication Armory VFD replacements for high flow pumps will use this budgeted amount Replace all SCADA Computers and Upgrade System	2018 Bond 2018 Bond	i ,	IBD ^I IBD ^I	No No	s - s -	5,000	-	Plaistow Nashua Nashua	Yes Yes Yes	s s	31.67 \$ 31.67 \$	744 Budgetted under Misc, SCADA Electrical upgrades 1,362 Unbudgetted. Security upgrades required hardward replacement
Misc. SCADA Electrical upgrades Misc. SCADA Electrical upgrades Misc. SCADA Electrical upgrades Well Rehabilitations (3)	Valleyfield - Install Cellular Communication Armory VFD replacements for high flow pumps will use this budgeted amount Replace all SCADA Computers and Upgrade System Well Rehabilitations	2018 Bond 2018 Bond Defend	l l d. No Bond se	TBD ¹ TBD ¹ TBD ¹ TBD ¹ Ought. No QCPA	No No No C sought.	\$ - \$ 5 - \$ 60,000	5,000 5 5 23,500 5 5 43,000 5	-	Plaistow Nashua Nashua Derry	Yes Yes	\$ \$ \$	31.67 \$	744 Budgetted under Misc, SCADA Electrical upgrades 1,362 Unbudgetted. Security upgrades required hardward replacement - Budget place holder. No Well Rehabilitation Projects YTD
Misc. SCADA Electrical upgrades Misc. SCADA Electrical upgrades Misc. SCADA Electrical upgrades Well Rehabilitations (3) WTP Closed Circuit Camera replacement/improvements	Valleyfield - Install Cellular Communication Armory VFD replacements for high flow pumps will use this budgeted amount Replace all SCADA Computers and Upgrade System Well Rehabilitations Closed Circuit Camera replacement/improvements	2018 Bond 2018 Bond Deferre Deferre	i I I Id. No Bond se	TBD ¹ TBD ¹ TBD ¹ TBD ¹ ought. No QCPA ought. No QCPA	No No No .C sought.	s - s -	5,000 5 5 23,500 5 5 43,000 5	-	Plaistow Nashua Nashua	Yes Yes Yes	\$ \$ \$	31.67 \$ 31.67 \$	744 Budgetted under Misc, SCADA Electrical upgrades 1,362 Unbudgetted. Security upgrades required hardward replacement
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Misc. SCADA Electrical upgrades Misc. SCADA Electrical upgrades Misc. SCADA Electrical upgrades Well Rehabilitations (3) WTP Closed Circuit Camera replacement/improvements WTP - Replace storefront glass, rennovate WTP reception Complete Feneing around WTP for Security Office renovation-conference room Water Supply - Watershed Public Education Stormwater BMP Notifications and Community Education Secure reception area Adjustable Desk Tops Asset Management - Phase 3 Conversion to R.A.M. Fixed Assets carry-over Firewall Asset Management - Phase 4 Click Mobile Upgrade Click Mobile Upgrade Linfoview upgrade Exchange Upgrade Retention Archive Solution Munis Enhancements Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Hardware LIMS upgrade Badge Swipe for IT Area DigsSafe into Click Website Upgrades & Updates IT Security Project Physical Server for Autodesk Revit Physical Server for Pead Investment in Developer Installed Services	Valleyfield - Install Cellular Communication Armory VFD replacements for high flow pumps will use this budgeted amount Replace all SCADA Computers and Upgrade System Well Rehabilitations Closed Circuit Camera replacement/improvements Replace storefront glass, rennovate WTP reception Perimiter fencing at WTP Office renovation-conference room Fertilization / Pesticide - Phase 1 Stormwater BMP Notifications and Community Education Office Security for Front Reception Desk Accommodate back issues Asset Management 2016 Carry over Conversion to R.A.M. Fixed Assets carry-over Firewall replacement Continue progress on Asset Management implementation Upgrade ClickMobile to work on iPaton Upgrade ClickMobile Platform Upgrade Infoview to the latest version Upgrade Exchange to the latest version Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central Upgrade Synergyn/WAM Backflow Data Collection software Allow for tracking of traffic after hours into IT area - Security Track Dig safe work order time electronically Update Website. Enhance customer uscability ISO 27001 Equivalency Project	2018 Bone 2018 Bone Deferre Deferre 2018 Bone 2018 Bone Deferre 2018 Bone Deferre De	ded. No Bond seed. No Bond see	TBD¹ TBD¹ TBD¹ TBD¹ TBD¹ TBD¹ TBD¹ TBD¹	No No No No C sought C sought C sought No C sought No	\$ 60,000 \$ 60,000 \$ 50,000 \$ 50,000 \$ 50,000 \$ 20,000 \$ 12,000 \$ 11,000 \$ 50,000 \$ 50,000 \$ 150,000 \$ 31,000 \$ 31,000 \$ 31,000 \$ 180,000 \$ 180,000 \$ 180,000 \$ 12,000 \$ 11,000 \$ 12,000 \$ 12,000 \$ 12,000 \$ 12,000 \$ 12,000	5 5,000 5 23,500 5 43,000 5	1-1,109	Plaistow Nashua Nashua Derry Nashua Nashua Nashua Nashua Nashua Nashua Mashua Mashua Merrimack M	Yes Yes Yes Yes Yes Yes Yes Yes Yes No No Yes Yes No	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	31.67 \$ 31.67 \$ 31.67 \$ 31.67 \$ 27.48 \$ 27.48 \$ 27.48 \$ 27.48 \$ 27.48 \$ 27.48 \$ 27.48 \$ 27.48 \$ 31.32 \$ 31.32 \$	7-44 Budgetted under Mise. SCADA Electrical upgrades 1,362 Unbudgetted. Security upgrades required hardward replacement Budget place holder. No Well Rehabilitation Projects YTD Deferred Deferred Deferred into 2019 177 Main Gate opening mechanism replaced. Fencing deferred to 2018 Deferred indefinitely Will not be completed until 2018 Will not be completed until 2018 Original estimate did not include bullet proof glass and other security features 5,496 302 1,001 11,816 Reduced level of work than budgetted due to staff time diverted to PFOA response 148 2016 Work completed. 2017 work deferred until 2018 149 Budgetted for under Upgrade ClickMobile to work on iPADs 87 561 Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgetted for under Mise. Software Budgetted for 2017 Project cancelled for 2017

Remaing portion of Amherst Water Area water main improvements to be be funded with remaining SRF Debt - \$

767,357

TBD - To Be Deterimined. Financing Petition for PWW March 2018 Bond issuance for 2017 QCPAC not docketed yet
 Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000
 Work Order Number will be added to this spreadsheet in Feb 2018 QCPAC petition filling.

BEFORE THE

NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

DW 17-___

Pennichuck Water Works, Inc.

DLW-1 2018 STEP ADDITIONS

Pennichuck Water Works, Inc. DW16-806 Staff DR 2-21 - Projected 2018 Capital Additions 1/18/2017

Project Name/Description	Project Description	Estimated Project Cost	Acct#	303 304	305	306	307	309 310	311	320	330	331	333	334	225	140	2/2	100.00		200	-	Tactic agencies		Rate
Replace Aging Services	25 Renewed Services	5 82,500	333	303 304	305	300	307	309 310	311	320	330		333	334	335	340 341	343	344	345	347		nity Taxabl		
Repalce Aging Hydrants	10 Hydrants Replacements	43,000	335									23	81,500		12.000						Nash			31.13 \$
Replace Aging Valves	10 Valve Replacements	\$ 31,000	331									\$ 31,000		>	43,000						Nash			31.13 \$
place Leaded Brass Meters with Lead free brass meters	2,478 New Meters for Lead Meter exchanges (PWW-CORE) 5/8"-6"		334									\$ 31,000		\$ 555,000							Nash			31.13 \$
Metal Detectors (6)	Metal Detectors (6)	\$ 6,000	343											\$ 555,000			\$ 6.00	10			Nash Merrin		\$ 3	31,13 \$
Ferromagnetic Pipe locators (3)	Ferromagnetic Pipe locators (3)	11,000	343														\$ 11,00				Mernir			3
Manager Truck Replacement (#13)	Manager Truck Replacement (#13)	30,000	341													\$ 30,0		10			Mernin			3
Supervisor Truck Replacement (#14)	Supervisor Truck Replacement (#14)	35,000	341													\$ 35.0					Mernin			3
Service Truck replacement (truck TBD)	Service Truck replacement (truck TBD)	60,000	341													\$ 60,0					Merrin			3
Meter service van replacement (van #TBD)	Meter service van replacement (van #TBD)	35,000	341													\$ 35,0					Merrin			3
Small Dump Truck New Addition	Small Dump Truck New Addition	s 60,000	345													35,0	000		\$ 60,000					3
Road Sander	Road Sander - new addition	8,000	345																\$ 8,000		Mercim Mercim			3
Replacement CE Units (4)	Replacement CE Units (4)		347																\$ 8,000	\$ 13.0				3
Replace Valve/vac trailer with truck mounted unit	Replace Valve/vac trailer with truck mounted unit		345																6 100 000	S 13,0				- 3
Mud Pump Replacements (3)	Mud Pump Replacements (3)		343														\$ 6,000	ın.	\$ 100,000		Merrim			3
Tapping Machine replacements (2)	Tapping Machine replacements (2)		343														\$ 3,000				Merrim			3
Replacement Radio Meter Reading Equipment (4)	Replace 10 year old radio meter reading handheld units		347														\$ 3,000	IU		S 05				3
Project Paving	Carry over from 2017 water main replacement projects		331									\$ 530,000								\$ 25,0				ુ
Mercimack Intake	Design and Permit in 2017, Construct in 2018		306		\$	5,200,000						3 330,000									Nash		Ce v	
Arnherst Water Main	Location thd, project in conjuntion with Amherst Stormwater Replacment program		331		~	5,200,000						\$ 500,000									Merrim			31 32 5
Lake St.	Pine to Lewis replace 3200 If of 6 in CI with 12 in CLDI (City Paving & Gas)		331									5 700,000									Amhe			30.67
Nashua water Main	Replace 3250 If of 4 & 6 in CI with 16 in CLDI	450,000	331									\$ 450,000									Nashi			31 13 \$
City Paving	Replacement of unlined CI and/or steel water main in conjunction with City Paving		331									\$ 325,000									Nashi			31,13 \$
City Sewer Projects - TBD	Aging infrastructure replacement in coordination with sewer replacement		331									\$ 275,000									Nashi			31.13 \$
Trimble GPS Units	Used for field locating Assets via GIS program		347									2/5,000								Se	Nashi			31,13 \$
Engineering Vehicles	Two Vehicles		341													1000 610	.00			\$ 15,0			\$ 3	31.32 \$
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements		311						\$ 60,00	20						\$ 64,0	00				Merrim		52	
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS		320						\$ 00,00	\$ 15,000											Derr	Yes		33.22 \$
Misc. Structural Improvements	Misc Structural Improvements		304	S 20,000						\$ 15,000	,										Derr	Yes		33,22 \$
Replace Vehicle #45	Replace Vehicle #45		341	3. 20,000												10.0	00				Nashı		§ 3	31.13 \$
Replace Vehicle #66	Replace Vehicle #66		341													\$ 40,0 \$ 45,0					Nashu			8
Replace Vehicle #101	Replace Vehicle #101		341																		Nashi			
Large pump/motor rebuild	Large pump/motor rebuild		311						\$ 30,00	10						\$ 30,0	OU				Nashu			5
PWW CWS well rehabilitations (4 locations)	PWW CWS well rehabilitations (4 locations)		307			e e	80,000		3 30,00	0											Nashi			31.13
Purchase new lab equipment	Purchase new lab equipment	10,000	344			2	80,000														Derr	Yes	5 3	33.22 \$
WIP structural/HVAC	WTP structural/HVAC		304	\$ 15,000														\$ 10,000			Nashı			
Misc Security upgrades for remote facilities	Misc Fencing/Security Projects		304	\$ 25,000																	Nashu	Yes Yes		31.13 \$
Misc SCADA/Electrical	Misc SCADA/Electrical		347	23,000																	Nashu			31.13 \$
Replace roof - WTP structure- Boat House	Replace roof - WTP structure- Boat House		304	\$ 50,000																\$ 30,0				31.13 \$
Water Supply - Watershed Public Education	Fertilization / Pesticide - Phase 2	20,000	305		\$ 20,000																Nashu			31.13 \$
Manhattan Drive Storm Water BMP, Amherst	Manhattan Drive Storm Water BMP, Amherst	375,000	305		\$ 375,000																Nashu			31-13 \$
Asset Management - Phase 5	Asset Management		347		\$ 375,000															g	Amhei			30.67 \$
Asset Management - Phase 5	Miscellaneous Software	12,000	347																	\$ 300,0			\$ 31	31.32 5
Miscellaneous Marie	Miscellaneous Flandware	12,000	347																	\$ 12,0				\$
Musiculaneous Frantware			347																	\$ 15,0				5
	Various Projects	400,000	347																	\$ 400,0				S
Website Upgrades	THE RESIDENCE OF THE PROPERTY	The state of the s	341	0.440																5 20,0	111111111			
	Total Projected 2018 PWW Capital Expenditures -	10,754,500	8	- \$ 110,000	\$ 395,000 \$5	5.200.000 \$ 1	80.000 S	- S -	 \$ 90,00 	0 \$ 15,000	9 -	\$2,811,000 \$	82.500 S	555,000 S	43 000 S	- \$ 339.00	00 \$ 26,000	\$ 10,000	\$ 168,000	S 830 C	00 Projected	roperty Tax	Evnense	PR - 9

BEFORE THE

NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

DW 17-___

Pennichuck Water Works, Inc.

DLW-1 2019 STEP ADDITIONS

Pennichuck Water Works, Inc. DW16-806 Staff DR 2-21 - Projected 2019 Capital Additions 1/18/2017

		Estimated																				т		Annual Tax
Project Name/Description	Project Description		Acct #	303 304	305	306	307 309	310	311	320	330 3	31 3	334	335	340	341	343 3	44 345	,	347	Community T			Expense
Replace Aging Services	25 Renewed Services	\$ 86,000	333									\$ 8	6,000								Nashua	Yes \$	31.13 \$	2,677
Repalce Aging Hydrants	10 Hydrants Replacements	44,000	335											\$ 44,000							Nashua	Yes 5	31.13 \$	
Replace Aging Valves	10 Valve Replacements	32,000	331								\$	32,000									Nashua	Yes \$		996
Replace Leaded Brass Meters with Lead free brass meters	2,579 New Meters for Lead Meter exchanges (PWW-CORE) 5/8"-6"	737,500	334										\$ 737,	500							Nashua	Yes S	31,13 \$	22,958
Metal Detectors (6)	Metal Detectors (6)	6,000	343														6,000				Merrimack	No	5	á ne
Ferromagnetic Pipe locators (3)	Ferromagnetic Pipe locators (3)	11,000	343														11,000				Merrimack	No	5	d e
Service Truck replacement (truck TBD)	Service Truck replacement (truck TBD)	62,500	341													62,500					Merrimack	No	S	4
Meter service van replacement (van #TBD)	Meter service van replacement (van #TBD)	\$ 35,000	341												5	35,000					Merrimack	No	5	£
Replacement CE Units (4)	Replacement CE Units (4)	13,000	347																\$	13,000	Merrimack	No	. 5	A PO
Pressure recorders	Pressure recorders	5,000	343													\$	5,000				Merrimack	No	\$	4
Trench compaction equipment	Trench compaction equipment	\$ 8,000	343													S	8,000				Merrimack	No	S	4
Backhoe replacement	Backhoe replacement	125,000	345															\$ 125,			Merrimack	No	5	j 180
Large Dump Truck Replacement (#TBD)	Large Dump Truck Replacement (#TBD)	130,000	345															\$ 130,	,000		Merrimack	No	5	130
Project Paving	Carry over from 2018 water main replacement projects	345,000	331								\$ 3	15,000									Nashua	No	5	
Kessler Farm Lank	Reconstruction	3 2,800,000	330							\$ 2	,800,000										Nashua	Yes \$	31,13 \$	87,164
Tinker Road Water Main Replacement	Replace 16 nch A/C main on Tinker Road with 825 lf 24 inch CLDI	225,000	331																					
Water main looping	Loop 101A to Boston Post Road near Bon Terrain Tank	350,000	331								\$ 3:										Amheist	Yes \$	30.67 \$	
Amherst Water Main	Location tbd, project in conjuntion with Amherst Stormwater Replacment program	325,000	331								\$ 3										Amherst	Yes \$	30.67 \$	
Nashua water Main	Replace CI or A/C	\$ 1,350,000	331								\$ 1,3										Nashua	Yes 5	31.13 \$	
City Paving	Replacement of unlined CI and/or steel water main in conjunction with City Paving	500,000	331								\$ 5										Nashua	Yes 5	31.13 \$	
City Sewer Projects - TBD	Aging infrastructure replacement in coordination with sewer replacement	425,000	331								\$ 4:	25,000									Nashua		31.13 \$	13,230
Trimble GPS Units	Used for field locating Assets via GIS program	15,000	347																\$	15,000	Merrimack	Yes \$	- 8	3 - 3 - 3
Engineering Vehicles		64,000	341												\$	64,000					Merrimack	No	3	3 . 355
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements	60,000	311						\$ 60,000												Derry	Yes \$	33.22 \$	
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS	15,000	320						\$	15,000											Derry	Yes 5	33.22 \$	
Misc. Structural Improvements	Misc. Structural Improvements	20,000	304	\$ 20,0	00																Nashua	Yes \$	31.13 \$	
Large pump/motor rebuild	Large pump/motor rebuild	30,000	311						\$ 30,000												Nashua	Yes 5	30.67 \$	
Misc. Structural Improvements	Misc. Structural Improvements	20,000	304	\$ 20,0	00																Nashua	Yes \$	31.13 \$	
PWW CWS well rehabilitations (4 locations)	PWW CWS well rehabilitations (4 locations)	80,000	307			\$	80,000														Derry	Yes \$	- 3	á T
Purchase new lab equipment	Purchase new lab equipment	10,000	344														\$ 1	0,000			Nashua	No	5	i
WIP structural/FIVAC	WTP structural/HVAC	15,000	304	\$ 15,0																	Nashua	Yes 5	31.13 \$	
Misc Security upgrades for remote facilities		25,000	304	\$ 25,0	00														_		Nashua	Yes 3		778
Misc_SCADA/Electrical	Misc SCADA/Electrical	30,000	347																5	30,000	Nashua	Yes 5	31.13 \$	934
Replace Flashboard Bowers Dam	Replace Flashboard Bowers Dam	600,000	305																			2.1	192	
WTP Replacement Vehicles		200,000	341												\$ 2	00,000					Nashua	No	3	
Craftsman Lane Storm Water BMP, Amherst	Craftsman Lane Storm Water BMP, Amherst	210,000	305		\$ 210,000															200.000	Amherst	Yes \$	31,13 \$ 31,13 \$	
Asset Management - Phase 6	Asset Management	300,000	347																5	300,000	Merrimack	Yes \$	21:12	9,539
Miscellaneous Software	Miscellaneous Software	12,000	347																2	12,000 15,000		No No	2	2
Miscellaneous Hardware	Miscellaneous Hardware	15,000	347																5	400,000	Merrimack Merrimack	No No	3	
Informatin Technology Projects/Replacements/updrades	Various Projects	400,000	347																				3	****
	Total Projected 2018 PWW Capital Expenditures -			- \$ 80,00										00 S 44,000				0,000 \$ 255,			Projected Proper	y Inx Expe	enses - S	229,401
		Rate by Chart of A		0.00% 2.46%			1.50%		ASSESSMENT OF THE PERSON NAMED IN	The second second	Contract of the last of the la	PORTOR OF THE PROPERTY OF THE	** 4.78*	THE R. P. LEWIS CO., LANSING, MICH.			STATE OF THE PERSON NAMED IN	0% 6.00%		.29%				
	Projected Full Year Depreciation Exp	ense by Chart of A	Account -	- 5 1,9	58 \$ 3,759	5 . 5	2,664 \$ -	S =	\$ 3,762 \$	710 5	61,040 5	9,905 \$	2,012 \$ 35,2	53 \$ 986	5 - 5	34,126 5	2,001 \$	500 \$ 15,	300 \$	112,177				

BEFORE THE

NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

DW 17-___

Pennichuck Water Works, Inc.

DLW-2 2017 INTERIM QPAC TIMELINE

Exhibit DLW-2
PWW Interim QCPAC filing **Proposed** 2017 QCPAC Initial Filing Timeline (Based on 11/7/2017 NHPUC Order)
11/17/2017

Task Description		Date	Responsible Staff
PWW Board Approved Capex plan submitted to NHPUC		01/26/17	
PWW submits Interim QCPAC petition to NHPUC	-	11/22/17	COO & Regulatory
October 2017 Capex report completed, QCPAC workbook updated	-	11/30/17	Accounting
Customer Notification of 2018 QCPAC Filing via bills/Website	40	Dec 1st - Dec 31st	COO & RCO Mgr.
Contractor's billable work for December 2017 closed out		12/21/17	Capex Proj Mgrs.
Last date for Contractor's to submit bills for work completed in December 2017	100	01/12/18	Capex Proj Mgrs.
2017 year Capex spending summary by WO finalized, QCPAC workbook updated		01/26/18	Accounting
Board approves 2018 through 2020 Capital Budgets for all Utilities	-	4th Week of January	CEO
All used and useful projects completed on or before 12/31/2017 must be booked	-	Before Dec 2017 close	Accounting
2017 QCPAC increase, proposed 2018 QCPAC increased finalized	-	01/31/18	COO/Regulatory
2018 QCPAC Petition filed with NHPUC - Seeks approval of QCPAC increase for		Before end of First week	COO/Regulatory
2017 used and useful capex and presents 2018-2020 Board approved capex	-	in February 2018	COO/Regulatory
Bonds to finance 2017 used and useful Capex issued	1	03/01/18	CEO
QCPAC Petition prosecuted through NHPUC	-	2/8/2018 - 7/1/2018	PWW/NHPUC
Staff QCPAC Recommendation		07/01/18	NHPUC
Commission Hearing on 2018 QCPAC filing	140	07/15/18	NHPUC
Commission Order		August 2017 ¹	NHPUC
NISI order Perfected	1,-1	09/01/18	COO & Regulatory
File Compliance Tariff reflecting approved Step rates for 2017 Capex inclusive of		00/14/18	COO, Regulatory &
recoupment calculation on service rendered after 3/1/2018	_	09/14/18	RCO Mgr.
QCPAC Rates appear on bills rendered after	-	10/01/18	RCO Manager
Recoupment recovered over 1 month beginning with bills rendered after	-	10/01/18	RCO Manager

^{1.} Although the Settlement in DW 16-806 anticipates a Commission order in September, that is based on a March 15 filing. PWW anticipates filing during the 1st week in February instead of March 15.