

**STATE OF NEW HAMPSHIRE**  
**BEFORE THE**  
**NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION**

**DW 17-\_\_**

**Pennichuck Water Works, Inc.**

**DLW-1**  
**SCHEDULE A PERM - MODIFIED**

**PWW0020**

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

	Step Rate Revenue requirement 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 Profmas (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 -		1.10												

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 30 year bond with interest rate of 5.0%  
(3) QCPAC Principal and Interest expenses are based on 30 year SRF bond with a projected interest rate of 2.46%  
(4) QCPAC percent revenue increases based on increase in revenues from the previous year.

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**BEFORE THE**  
**NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION**

**DW 17-\_\_**

**Pennichuck Water Works, Inc.**

**DLW-1**  
**2017 STEP ADDITIONS**

**PWW0021- PWW0022**

Project Name/Description	Project Description	Work Order # <sup>3</sup>	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Funded in DW16-806 Step	Estimated	Estimated	Capital \$\$ Funded in DW16-806 step	Community	Taxable	Tax Rate (2)	QCPAC	Explanation for Change/Addition/Deletion since 1/18/2017
							Project Cost as of 1/18/2017 per DW16-806, Staff 2-21	Cost to be funded by 2018 QCPAC surcharge as of 11/17/2017					Eligible Annual Tax Expense	
Heavy Dump Truck Replacement (#12)	Repalce 15 year old Heavy Dump Truck (#12)		DW14-130	25,734	11/7/2014	Yes	\$ 130,000	Funded with 2014 Bond	\$ 84,760	Merrimack	No	\$ -	\$ -	P&I and property taxes recovered in DW16-806 Step Increase
Add Aluminium Dump Body to Truck 312	Retrofit existing truck and add sander and plow					No	\$ -	\$ 15,740		Merrimack	No	\$ -	\$ -	Project added in lieu of purchasing new small dump truck in 2018 for sanding and plowing
Replace Aging Services	25 Renewed Services		DW14-131	25,735	11/7/2014	Partial	\$ 80,000	Funded with 2014 Bond	\$ 31,716	Nashua	Yes	\$ 31.67	\$ -	P&I and property taxes recovered in DW16-806 Step Increase
Replace Aging Services	25 Renewed Services		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 40,000	\$ -	Nashua	Yes	\$ 31.67	\$ 1,267	P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Replace Aging Hydrants	10 Hydrants Replacements		DW14-131	25,735	11/7/2014	Partial	\$ 42,000	Funded with 2014 Bond	\$ 17,197	Nashua	Yes	\$ 31.67	\$ -	P&I and property taxes recovered in DW16-806 Step Increase
Replace Aging Hydrants	10 Hydrants Replacements		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 11,000	\$ -	Nashua	Yes	\$ 31.67	\$ 348	P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Replace Aging Valves	10 Valve Replacements		2018 Bond	TBD <sup>1</sup>		No	\$ 30,000	\$ 50,000	\$ -	Nashua	Yes	\$ 31.67	\$ 1,584	P&I and property taxes to be recovered in Interim 2017 QCPAC filing
New Services	New Services for Single Family Residential, owner build, per Tariff		DW14-131	25,735	11/7/2014	Partial	\$ -	Funded with 2014 Bond	\$ 15,804	Nashua	Yes	\$ 31.67	\$ -	P&I and property taxes recovered in DW16-806 Step Increase
New Services	New Services for Single Family Residential, owner build, per Tariff		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 34,537	\$ -	Nashua	Yes	\$ 31.67	\$ 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'		DW14-131	25,735	11/7/2014	Partial	\$ 832,000	Funded with 2014 Bond	\$ 90,063	Nashua	Yes	\$ 31.67	\$ -	P&I 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'		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 247,266	\$ -	Nashua	Yes	\$ 31.67	\$ 7,831	P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Replace Aging meter reading Radios	Replace 280 failed radios		DW14-131	25,735	11/7/2014	Parial	\$ -	Funded with 2014 Bond	\$ 12,893	Nashua	Yes	\$ 31.67	\$ -	P&I and property taxes recovered in DW16-806 Step Increase
Replace Aging meter reading Radios	Replace 280 failed radios		2018 Bond	TBD <sup>1</sup>		Remainder	\$ -	\$ 22,729	\$ -	Nashua	Yes	\$ 31.67	\$ 720	P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Ferromagnetic Pipe locators (3)	Ferromagnetic Pipe leak detectors (3)		2018 Bond	TBD <sup>1</sup>		No	\$ 10,500	\$ 10,500	\$ -	Merrimack	No	\$ -	\$ -	
Heavy Dump Truck Replacement (#86)	Repalce 10 year old Heavy Dump Truck (#87)		2018 Bond	TBD <sup>1</sup>		No	\$ 100,000	\$ 100,000	\$ -	Merrimack	No	\$ -	\$ -	
Service Truck replacement (#47)	Service Truck replacement (#47)		2018 Bond	TBD <sup>1</sup>		No	\$ 60,000	\$ 38,950	\$ -	Merrimack	No	\$ -	\$ -	This vehicle was not retired. New Vehicle was purchased to accommodate new staff
Replacement of Foreman truck	Replacement of Foreman truck (#48)		Deferred.	No Bond sought.	No QCPAC sought.		\$ 90,000	\$ -	\$ -	Merrimack	No	\$ -	\$ -	Delayed delivery until April 2018
Medium Duty Dump Truck Replacement (#71)	Replace 10 year old Medium Duty Dump Truck (#71)		2018 Bond	TBD <sup>1</sup>		No	\$ 70,000	\$ 70,000	\$ -	Merrimack	No	\$ -	\$ -	
20 Ton Tag Trailer replacement	20 Ton Tag Trailer replacement		Deferred.	No Bond sought.	No QCPAC sought.		\$ 20,000	\$ -	\$ -	Merrimack	No	\$ -	\$ -	Deferred
Variable Message Signs - 2	Customer Notification		DW14-130	25,734	11/7/2014	Yes	\$ 30,000	Funded with 2014 Bond	\$ 27,000	Merrimack	No	\$ -	\$ -	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		DW14-130	25,734	11/7/2014	Yes	\$ 25,000	Funded with 2014 Bond	\$ 24,355	Merrimack	No	\$ -	\$ -	P&I and property taxes recovered in DW16-806 Step Increase
Pipe Saws (5)	Pipe Saws (5)		2018 Bond	TBD <sup>1</sup>		No	\$ 6,000	\$ 11,000	\$ -	Merrimack	No	\$ -	\$ -	Increase in cost due to purchase of "chain" pipe cutters vs. conventional cut off saw.
Metal Detectors (6)	Metal Detectors (6)		2018 Bond	TBD <sup>1</sup>		No	\$ 7,000	\$ 6,360	\$ -	Merrimack	No	\$ -	\$ -	
Replacement Excavator	Replace 11 Year old Excavator (#87)		2018 Bond	TBD <sup>1</sup>		No	\$ 75,000	\$ 69,554	\$ -	Merrimack	No	\$ -	\$ -	
Complete construction of 16 DW Highway	Final billing for the completion of work by contractor at 16 DW Highway		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 67,050	\$ -	Merrimack	Yes	\$ 27.48	\$ 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		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 32,034	\$ -	Merrimack	No	\$ -	\$ -	
MRX meter reading device	Replace failed CE meter reading device		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 8,190	\$ -	Various	No	\$ -	\$ -	Existing 8 year old meter reading device failed
Nashua & Amherst Paving	Final paving associated with watermain projects					No	\$ 1,100,000			Nashua	Yes	\$ -	\$ -	Budget Placeholder
Nashua & Amherst Paving	Park Street Water Main Replacement project paving		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 4,908	\$ -	Nashua	Yes	\$ 31.67	\$ 155	Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Mulberry Street Water Main Replacement project paving		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 6,840	\$ -	Nashua	Yes	\$ 31.67	\$ 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 Bond	TBD <sup>1</sup>		No	\$ -	\$ 120,000	\$ -	Nashua	Yes	\$ 31.67	\$ 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		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 65,000	\$ -	Nashua	Yes	\$ 31.67	\$ 2,059	Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Chestnut Street Phase II Water Main Replacement project paving		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 65,780	\$ -	Nashua	Yes	\$ 31.67	\$ 2,083	Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Scripture Street Water Main Replacement project paving		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 11,200	\$ -	Nashua	Yes	\$ 31.67	\$ 355	Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Water Street Water Main Replacement project paving						\$ -	\$ 44,561	\$ -	Nashua	Yes	\$ 31.67	\$ 1,411	Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Bridle Path Water Main Replacement project paving		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 49,000	\$ -	Nashua	Yes	\$ 31.67	\$ 1,552	Budgetted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Tolles Street Water Main Replacement project paving		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 45,500	\$ -	Nashua	Yes	\$ 31.67	\$ 1,441	Budgetted under Final Paving associated with water main replacement projects
Amherst Street Project	Amherst Street Area Water Main Replacement Project													
Amherst Street Project - Amherst Street water main replacement	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street		DW16-236	25,887	4/26/2016	Partial		\$1.4M Funded with SRF, residual of \$89K to be funded with 2018 Bond	\$ 632,643				\$ -	
	Replace 3,150 LF of 6" Unlined CI Water main on Amherst Street		DW16-236	25,888	4/26/2016		\$ -	\$ 510,000	\$ -	Nashua	Yes	\$ 31.67	\$ 16,152	P&I and property taxes recovered in DW16-806 Step Increase
Amherst Street Project - Berkshire Street water main replacement	Replace 570 LF of 6" CI Water main on Berkshire Street		DW16-236	25,887	4/26/2016		\$ -	\$ 196,000	\$ -	Nashua	Yes	\$ 31.67	\$ 6,207	P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Amherst Street Project - Terrace Ave. water main replacement	Replace 180 LF / 207 LF of 2" Steel /4" Unlined CI Water main on Terrace Ave.		DW16-236	25,887	4/26/2016		\$ 75,000	\$ 75,000	\$ -	Nashua	Yes	\$ 31.67	\$ 2,375	P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Amherst Street Project - Bruce Street water main replacement	Replace 260 LF of 6" Unlined CI Water main on Bruce Street		DW16-236	25,887	4/26/2016		\$ 75,000	\$ 75,000	\$ -	Nashua	Yes	\$ 31.67	\$ 2,375	P&I and property taxes to be recovered in Interim 2017 QCPAC filing
Sweet Hill	New Supplemental Well		2018 Bond	TBD <sup>1</sup>		No	\$ 80,000	\$ 80,000	\$ -	Plaistow	Yes	\$ 26.88	\$ 2,150	SRF funded carry over project from 2020
Pennichuck Bog - Educational Program Accessway	Construct Nature Walk around Pennichuck Bog		Deferred.	No Bond sought.	No QCPAC sought.		\$ 38,000	\$ -	\$ -	Nashua	No	\$ -	\$ -	Deferred
Gilman Street	Replace 8 & 6 in CI with 1225 lf of 8 inch CLDI		Deferred.	No Bond sought.	No QCPAC sought.		\$ 425,000	\$ -	\$ -	Nashua	Yes	\$ -	\$ -	Deferred until 2018
Amherst Mack Hill & Dodge	Replace 1525 feet of 8 A/C with CLDI Transfer services from A/C to D/I Dodge Rd.		Deferred.	No Bond sought.	No QCPAC sought.		\$ 300,000	\$ -	\$ -	Amherst	Yes	\$ -	\$ -	Deferred until future date in coordination with Town Storm Drain project
Milford Booster Station Replacement	Replace 25 Yr old below ground confined space booster station w/above ground station		Deferred.	No Bond sought.	No QCPAC sought.		\$ 550,000	\$ -	\$ -	Amherst	Yes	\$ -	\$ -	Project deferred indefinitely.
Snow Station Upgrade - Add 3rd pump	Increase pumping capacity to meet existing demands and contractual obligations.		2018 Bond	TBD <sup>1</sup>		No	\$ 125,000	\$ 13,323	\$ -	Nashua	Yes	\$ 31.67	\$ 422	Analysis showed that rebuilding existing pumps would provide the initial capacity required.
City Sewer Projects - TBD	Aging infrastructure replacement in coordination with sewer replacement						\$ 400,000			Nashua				
Water main replacement in conjunction with City Sewer Project	Replaced 262 LF/72 lf of 4" unlined CI/ 6 in unlined cast iron with 8" DIPCL on Warren Street		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 60,000	\$ -	Nashua	Yes	\$ 31.67	\$ 1,900	\$20,000 for final paving in 2018
Water main replacement in conjunction with City Sewer Project	Replaced 435 LF of 6" CI with 6" DIPCL on Lowell Street		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 60,000	\$ -	Nashua	Yes	\$ 31.67	\$ 1,900	\$38,500 for final paving in 2018
Water main replacement in conjunction with City Sewer Project	Replaced 125 LF of 6" CI with 6" DIPCL on Green Street		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 27,000	\$ -	Nashua	Yes	\$ 31.67	\$ 855	Including final paving
Water main replacement in conjunction with City Sewer Project	Replaced 380 LF of 8" CI with 6" DIPCL on Beard Street		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 75,000	\$ -	Nashua	Yes	\$ 31.67	\$ 2,375	Includes paving
Water main replacement in conjunction with City Sewer Project	Replaced 239 LF/29 LF of 4" CI /1.25" steel with 4" PVC on Lemon Street		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 30,250	\$ -	Nashua	Yes	\$ 31.67	\$ 958	\$17,000 for final paving in 2018
Water main replacement in conjunction with City Sewer Project	Replaced 55 LF/81 LF of 2" steel/1.25" with 4" PVC on Proctor Street		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 51,000	\$ -	Nashua	Yes	\$ 31.67	\$ 1,615	Excludes final paving
Water main replacement in conjunction with City Sewer Project	Replaced 371 LF of " CI with 8" DIPCL on Temple Street		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 151,093	\$ -	Nashua	Yes	\$ 31.67	\$ 4,785	
Water main replacement in conjunction with City Sewer Project	Replaced 285 LF of 2" steel with 4" PVC on Mulvanity Street		2018 Bond	TBD <sup>1</sup>		No	\$ -	\$ 106,300	\$ -	Nashua	Yes	\$ 31.67	\$ 3,367	Excludes final paving
24" watermain from Manchester Street to Tinker Road	Add 1800 lf of 24 inch CLDI on Manchester Street Easement to Tinker Road		Deferred.	No Bond sought.	No QCPAC sought.		\$ 500,000	\$ -	\$ -	Nashua				Deferred until 2018, Part of improvements to Northwest High Pressure System
Water main looping	Close loop on 101A end of main to beyond Truell and loop onto Truell 1200 lf		Deferred.	No Bond sought.	No QCPAC sought.		\$ 300,000	\$ -	\$ -	Nashua				Deferred until 2018, Part of improvements to Northwest

Project Name/Description	Project Description	Work Order # <sup>3</sup>	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Funded in DW16-806 Step	Estimated	Estimated Cost to be	Capital \$\$ Funded in DW16-806 step	Community	Taxable	Tax Rate (2)	QCPAC	Explanation for Change/Addition/Deletion since 1/18/2017
							Project Cost as of 1/18/2017 per DW16-806, Staff 2-21	funded by 2018 QCPAC surcharge as of 11/17/2017					Eligible Annual Tax Expense	
Route 101 Widening, Bedford	Relocate water main along Nashua Road		2018 Bond	TBD <sup>1</sup>		No	\$	43,100	\$	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 Bond	TBD <sup>1</sup>		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 <sup>1</sup>		No	\$	67,400	\$	Bedford	Yes	\$ 28.97	\$ 1,953	NHDOT project that was added in Spring of 2017
Route 122 @ Nathan Lord Lane Water Main Relocation	Water Main Relocation to accommodate Town of Amherst Storm Drain installation		2018 Bond	TBD <sup>1</sup>		No	\$	54,630	\$	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	TBD <sup>1</sup>		No	\$	72,000	\$	Merrimack	Yes	\$ 27.48	\$ 1,886	
Engineering Replacement Vehicles (2)	Replace 2 Vehicles		DW14-130	25,734	11/7/2014	Yes	\$	Funded with 2014 Bond	\$	54,689				P&I and property taxes recovered in DW16-806 Step Increase
Complete PWW Core System Hydraulic Model	Distribution Model Phase 2		Deferred.	No Bond sought.	No QCPAC sought.		\$	25,000	\$	Merrimack				Project underway, will not be used and useful in 2017
PWW-PEU Interconnection - DW Highway to River	DW Highway to Merrimack River Booster station		Deferred.	No Bond sought.	No QCPAC sought.		\$	311,500	\$	Merrimack				Deferred to 2018 due to timing of final NHDES permitting
WTP - Conversion to LED Lighting	WTP - Conversion to LED Lighting		Deferred.	No Bond sought.	No QCPAC sought.		\$	80,000	\$	Nashua				Deferred, staff time not available to complete in 2017
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements		DW14-131	25,735	11/7/2014	Partial		Funded with 2014 Bond	\$	18,383	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 <sup>1</sup>		No	\$	60,000	\$	Derry	Yes	\$ 31.43	\$ 1,194	Projected through year end
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements		2018 Bond	TBD <sup>1</sup>		No	\$	2,089	\$	Plaistow	Yes	\$ 26.88	\$ 56	Budgetted under Booster/Well/Chem Feed pump replacement
Booster/Well/Chem Feed pump replacements	Replace VFD on Twin Ridge Well		Deferred.	No Bond sought.	No QCPAC sought.		\$	15,000	\$	Derry				Budget place holder. No treatment system installs/replacement YTD
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS		Deferred.	No Bond sought.	No QCPAC sought.		\$	20,000	\$	Nashua				Budget place holder. No structural improvements YTD
Misc. Structural Improvements	Misc. Structural Improvements		2018 Bond	TBD <sup>1</sup>		No	\$	60,000	\$	Nashua	No			
Replace Vehicle #61	Replace 7 year old truck with 110,691 miles		2018 Bond	TBD <sup>1</sup>		No	\$	60,000	\$	Nashua	No			
Replace Vehicle #62	Replace 7 year old truck with 132,954 miles		2018 Bond	TBD <sup>1</sup>		No	\$	60,000	\$	Nashua	No			
Replace Vehicle #49	Replace 7 year old truck with 106,100 miles		2018 Bond	TBD <sup>1</sup>		No	\$	35,000	\$	Nashua	No			
Replace vehicle #204	Replace 6 year old truck with 178,290 miles		2018 Bond	TBD <sup>1</sup>		No	\$	60,000	\$	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 Bond	TBD <sup>1</sup>		No	\$	35,000	\$	Nashua	No			
Replace Vehicle #44	Replace 9 year old truck with 191,355 miles		2018 Bond	TBD <sup>1</sup>		No	\$	63,038	\$	Nashua	No			
Install overhead crane and door-WTP process area	install overhead crane and door-WTP process area		2018 Bond	TBD <sup>1</sup>		No	\$	75,000	\$	Nashua	Yes	\$ 31.67	\$ 2,375	
Merrimack River Station pump/motor rebuild	Merrimack River Station pump/motor rebuild		2018 Bond	TBD <sup>1</sup>		No	\$	75,000	\$	Merrimack	Yes	\$ 27.48	\$ 687	Motor rebuild less expensive than anticipated
Misc. equipment purchases	WTP misc. equipment purchases						\$	25,000	\$					
Misc. equipment purchases	Purchase New Electric Multi-Meter		2018 Bond	TBD <sup>1</sup>		No	\$	1,500	\$	Nashua	No	\$ 31.67	\$ 48	Budgetted under WTP Misc equipmnet purchased
Misc. equipment purchases	Install mixer in Bon Terrain Tank		2018 Bond	TBD <sup>1</sup>		No	\$	2,600	\$	Amherst	Yes	\$ 29.47	\$ 77	Budgetted under WTP Misc equipmnet purchased
Misc. equipment purchases	Replace VFD on Sludge Chopper Pump at WTP		2018 Bond	TBD <sup>1</sup>		No	\$	3,503	\$	Nashua	Yes	\$ 31.67	\$ 111	Budgetted under WTP Misc equipmnet purchased
Misc. equipment purchases	WTP - Replace 30" IP Discharge Meter		2018 Bond	TBD <sup>1</sup>		No	\$	17,177	\$	Nashua	Yes	\$ 31.67	\$ 544	Budgetted under WTP Misc equipmnet purchased
Purchase new lab equipment	Purchase new lab equipment						\$	15,000	\$	Nashua				
Purchase new lab equipment	Hanna Titration		2018 Bond	TBD <sup>1</sup>		No	\$	3,900	\$	Nashua	No			Budgetted under Purchase new lab equipment
WTP structural/HVAC	Replaced Compressor on A/C Unit FWPS		2018 Bond	TBD <sup>1</sup>		No	\$	10,000	\$	Nashua	Yes			
Misc Security upgrades for remote facilities	Misc. Fencing/Security Projects		Deferred.	No Bond sought.	No QCPAC sought.		\$	25,000	\$	Nashua	Yes			Budget place holder. No Misc. Fencing/Security Projects YTD
Replace Clarifier (2)Vacuum Blowers and Actuators	Replace Clarifier (2)Vacuum Blowers and Actuators		Deferred.	No Bond sought.	No QCPAC sought.		\$	25,000	\$	Nashua	Yes			Deferred
Misc. SCADA Electrical upgrades	Misc. SCADA Electrical						\$	30,000	\$	Nashua	Yes			
Misc. SCADA Electrical upgrades	Valleyfield - Install Cellular Communication		2018 Bond	TBD <sup>1</sup>		No	\$	5,000	\$	Plaistow	Yes	\$ 26.88	\$ 134	Budgetted under Misc. SCADA Electrical upgrades
Misc. SCADA Electrical upgrades	Armory VFD replacements for high flow pumps will use this budgeted amount		2018 Bond	TBD <sup>1</sup>		No	\$	23,500	\$	Nashua	Yes	\$ 31.67	\$ 744	Budgetted under Misc. SCADA Electrical upgrades
Misc. SCADA Electrical upgrades	Replace all SCADA Computers and Upgrade System		2018 Bond	TBD <sup>1</sup>		No	\$	43,000	\$	Nashua	Yes	\$ 31.67	\$ 1,362	Unbudgetted. Security upgrades required hardware replacement
Well Rehabilitations (3)	Well Rehabilitations		Deferred.	No Bond sought.	No QCPAC sought.		\$	60,000	\$	Derry	Yes	\$ 31.43	\$ -	Budget place holder. No Well Rehabilitation Projects YTD
WTP Closed Circuit Camera replacement/improvements	Closed Circuit Camera replacement/improvements		Deferred.	No Bond sought.	No QCPAC sought.		\$	60,000	\$	Nashua				Deferred
WTP - Replace storefront glass, renovate WTP reception	Replace storefront glass, renovate WTP reception		Deferred.	No Bond sought.	No QCPAC sought.		\$	50,000	\$	Nashua				Deferred until 2019
Complete Fencing around WTP for Security	Perimeter fencing at WTP		2018 Bond	TBD <sup>1</sup>		No	\$	80,000	\$	Nashua	Yes	\$ 31.67	\$ 177	Main Gate opening mechanism replaced. Fencing deferred to 2018
Office renovation-conference room	Office renovation-conference room		Deferred.	No Bond sought.	No QCPAC sought.		\$	50,000	\$	Nashua	Yes			Deferred indefinitely
Water Supply - Watershed Public Education	Fertilization / Pesticide - Phase 1		Deferred.	No Bond sought.	No QCPAC sought.		\$	20,000	\$	Nashua	Yes			Will not be completed until 2018
Stormwater BMP Notifications and Community Education	Stormwater BMP Notifications and Community Education		Deferred.	No Bond sought.	No QCPAC sought.		\$	12,000	\$	Nashua	Yes			Will not be completed until 2018
Secure reception area	Office Security for Front Reception Desk		2018 Bond	TBD <sup>0</sup>		No	\$	10,000	\$	Merrimack	No			Original estimate did not include bullet proof glass and other security features
Adjustable Desk Tops	Accommodate back issues		2018 Bond	TBD <sup>1</sup>		No	\$	6,088	\$	Merrimack	No			
Asset Management - Phase 3	Asset Management 2016 Carry over		2018 Bond	TBD <sup>1</sup>		No	\$	200,000	\$	Merrimack	Yes	\$ 27.48	\$ 5,496	
Conversion to R.A.M. Fixed Assets carry-over	Conversion to R.A.M. Fixed Assets carry-over		2018 Bond	TBD <sup>1</sup>		No	\$	11,000	\$	Merrimack	Yes	\$ 27.48	\$ 302	
Firewall	Firewall replacement		2018 Bond	TBD <sup>1</sup>		No	\$	50,000	\$	Merrimack	No	\$ 27.48	\$ 1,001	
Asset Management - Phase 4	Continue progress on Asset Management implementation		2018 Bond	TBD <sup>1</sup>		No	\$	736,000	\$	Merrimack	Yes	\$ 27.48	\$ 11,816	Reduced level of work than budgetted due to staff time diverted to PFOA response
Click Mobile Upgrade	Upgrade ClickMobile to work on iPads		2018 Bond	TBD <sup>1</sup>		No	\$	150,000	\$	Merrimack	Yes	\$ 27.48	\$ 148	2016 Work completed. 2017 work deferred until 2018
Click Mobile Upgrade	Purchase iPADS for ClickMobile Platform		2018 Bond	TBD <sup>1</sup>		No	\$	5,160	\$	Merrimack	Yes	\$ 27.48	\$ 142	Budgetted for under Upgrade ClickMobile to work on iPADS
Infoview upgrade	Upgrade Infoview to the latest version		2018 Bond	TBD <sup>1</sup>		No	\$	3,150	\$	Merrimack	Yes	\$ 27.48	\$ 87	
Exchange Upgrade	Upgrade Exchange to the latest version		2018 Bond	TBD <sup>1</sup>		No	\$	31,000	\$	Merrimack	Yes	\$ 27.48	\$ 561	
Retention Archive Solution	Infrastructure to Archive older stagnant files		Deferred.	No Bond sought.	No QCPAC sought.		\$	80,000	\$	Merrimack	No			Deferred until 2018
Munis Enhancements	Bill prints/ forms, Forms import, Click-Munis import, CSS and Dashboard/Central		Deferred.	No Bond sought.	No QCPAC sought.		\$	180,000	\$	Merrimack	No			Waiting for vender acceptance of software enhancements
Miscellaneous Software			Deferred.	No Bond sought.	No QCPAC sought.		\$	15,000	\$	Merrimack	No			Budget place holder.
Miscellaneous Software	Upgrade Synergyn/WAM		2018 Bond	TBD <sup>1</sup>		No	\$	10,386	\$	Merrimack	No			Budgetted for under Misc. Software
Miscellaneous Software	Backflow Data Collection software		2018 Bond	TBD <sup>1</sup>		No	\$	6,700	\$	Merrimack	No			Budgetted for under Misc. Software
Miscellaneous Hardware			Deferred.	No Bond sought.	No QCPAC sought.		\$	18,000	\$	Merrimack	No			Budget place holder. No Misc. Hardware purchased YTD
LIMS upgrade	Upgrade to Laboratory Information Systems software		Deferred.	No Bond sought.	No QCPAC sought.		\$	11,000	\$	Merrimack	No			Release of new version delayed until 2018
Badge Swipe for IT Area	Allow for tracking of traffic after hours into IT area - Security		Deferred.	No Bond sought.	No QCPAC sought.		\$	2,000	\$	Merrimack	No			Project cancelled for 2017
Digsafe into Click	Track Dig safe work order time electronically		Deferred.	No Bond sought.	No QCPAC sought.		\$	2,000	\$	Merrimack	No			Project cancelled for 2017
Website Upgrades & Updates	Update Website. Enhance customer usability		2018 Bond	TBD <sup>1</sup>		No	\$	36,000	\$	Merrimack	No			
IT Security Project	ISO 27001 Equivalency Project		2018 Bond	TBD <sup>1</sup>		No	\$	40,500	\$	Merrimack	No			Evaluation of IT infrastructure for security
Physical Server for Autodesk Revit			Deferred.	No Bond sought.	No QCPAC sought.		\$	8,000	\$	Merrimack	No		\$ -	Deferred
Physical Server for Pearl			Deferred.	No Bond sought.	No QCPAC sought.		\$	12,000	\$	Merrimack	No		\$ -	Deferred
Investment in Developer Installed Services	One times revenue tariffed amount		DW14-131	25,735	11/7/2014	Partial	\$	Funded with 2014 Bond	\$	14,109	Varies	Yes		P&I and property taxes recovered in DW16-806 Step Increase
Investment in Developer Installed Services	One times revenue tariffed amount		2018 Bond	TBD <sup>1</sup>		No	\$	36,000	\$	Varies	Yes	\$ 31.32	\$ 1,128	Tariffed investment amount not in original capital budget
Total Projected 2017 PWW Capital Expenditures -							\$ 9,787,000	\$ 5,266,000	\$ 1,023,612	Projected Property Tax Expenses -				\$ 111,868
Total Projected 2017 PWW Capital Expenditures to be funded with 2018 Bond -								\$ 4,498,643						
Remaining portion of Amherst Water Area water main improvements to be funded with remaining SRF Debt -								\$ 767,357						

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

**STATE OF NEW HAMPSHIRE**  
**BEFORE THE**  
**NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION**

**DW 17-\_\_**

**Pennichuck Water Works, Inc.**

**DLW-1**  
**2018 STEP ADDITIONS**

**PWW0023**

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

Project Name/Description		Project Description	Estimated																		Tax Rate		Annual							
			Project Cost	Acct #	303	304	305	306	307	309	310	311	320	330	331	333	334	335	340	341	343	344	345	347	Community	Taxable	(1)	Tax Expense		
Replace Aging Services		25 Renewed Services	\$ 82,500	333											\$ 82,500										Nashua	Yes	\$ 31.13	\$ 2,368		
Repalce Aging Hydrants		10 Hydrants Replacements	\$ 43,000	335													\$ 43,000								Nashua	Yes	\$ 31.13	\$ 1,339		
Replace Aging Valves		10 Valve Replacements	\$ 31,000	331											\$ 31,000										Nashua	Yes	\$ 31.13	\$ 965		
Replace Leaded Brass Meters with Lead free brass meters	2,478 New Meters for Lead Meter exchanges (PWW-CORE) 5/8"-6"		\$ 555,000	334												\$ 555,000									Nashua	Yes	\$ 31.13	\$ 17,277		
Metal Detectors (6)		Metal Detectors (6)	\$ 6,000	343																\$ 6,000					Merimack	No	\$	\$ -		
Ferromagnetic Pipe locators (3)		Ferromagnetic Pipe locators (3)	\$ 11,000	343																\$ 11,000					Merimack	No	\$	\$ -		
Manager Truck Replacement (#13)		Manager Truck Replacement (#13)	\$ 30,000	341																\$ 30,000					Merimack	No	\$	\$ -		
Supervisor Truck Replacement (#14)		Supervisor Truck Replacement (#14)	\$ 35,000	341																\$ 35,000					Merimack	No	\$	\$ -		
Service Truck replacement (truck TBD)		Service Truck replacement (truck TBD)	\$ 60,000	341																\$ 60,000					Merimack	No	\$	\$ -		
Meter service van replacement (van #TBD)		Meter service van replacement (van #TBD)	\$ 35,000	341																\$ 35,000					Merimack	No	\$	\$ -		
Small Dump Truck New Addition		Small Dump Truck New Addition	\$ 60,000	345																					Merimack	No	\$	\$ -		
Road Sander		Road Sander - new addition	\$ 8,000	345																		\$ 60,000			Merimack	No	\$	\$ -		
Replacement CE Units (4)		Replacement CE Units (4)	\$ 13,000	347																		\$ 8,000			Merimack	No	\$	\$ -		
Replace Valve/vac trailer with truck mounted unit		Replace Valve/vac trailer with truck mounted unit	\$ 100,000	345																			\$ 13,000			Merimack	No	\$	\$ -	
Mud Pump Replacements (3)		Mud Pump Replacements (3)	\$ 6,000	343																		\$ 100,000			Merimack	No	\$	\$ -		
Tapping Machine replacements (2)		Tapping Machine replacements (2)	\$ 3,000	343																		\$ 6,000			Merimack	No	\$	\$ -		
Replacement Radio Meter Reading Equipment (4)		Replace 10 year old radio meter reading handheld units	\$ 25,000	347																		\$ 3,000			Merimack	No	\$	\$ -		
Project Paving		Carry over from 2017 water main replacement projects	\$ 530,000	331																				\$ 25,000			Merimack	No	\$	\$ -
Merimack Intake		Design and Permit in 2017, Construct in 2018	\$ 5,200,000	306				\$ 5,200,000																		Nashua	No	\$	\$ -	
Amherst Water Main	Location tbd, project in conjunction with Amherst Stormwater Replacement program		\$ 500,000	331											\$ 500,000										Merimack	Yes	\$ 31.32	\$ 162,864		
Lake St	Pine to Lewis replace 3200 lf of 6 in CI with 12 in CLDI (City Paving & Gas)		\$ 700,000	331											\$ 700,000										Nashua	Yes	\$ 31.13	\$ 21,791		
Nashua water Main		Replace 3250 lf of 4 & 6 in CI with 16 in CLDI	\$ 450,000	331											\$ 450,000										Nashua	Yes	\$ 31.13	\$ 14,009		
City Paving	Replacement of unlined CI and/or steel water main in conjunction with City Paving		\$ 325,000	331											\$ 325,000										Nashua	Yes	\$ 31.13	\$ 10,117		
City Sewer Projects - TBD	Aging infrastructure replacement in coordination with sewer replacement		\$ 275,000	331											\$ 275,000										Nashua	Yes	\$ 31.13	\$ 8,561		
Trimble GPS Units		Used for field locating Assets via GIS program	\$ 15,000	347																						Nashua	Yes	\$ 31.32	\$ 470	
Engineering Vehicles		Two Vehicles	\$ 64,000	341																						Merimack	Yes	\$ 31.32	\$ -	
Booster/Well/Chem Feed pump replacements		Booster/Well/Chem Feed pump replacements	\$ 60,000	311							\$ 60,000															Merimack	No	\$	\$ -	
Install/replace treatment systems in small CWS		Install/replace treatment systems in small CWS	\$ 15,000	320								\$ 15,000														Derry	Yes	\$ 33.22	\$ 1,993	
Misc. Structural Improvements		Misc. Structural Improvements	\$ 20,000	304		\$ 20,000																				Derry	Yes	\$ 33.22	\$ 498	
Replace Vehicle #45		Replace Vehicle #45	\$ 40,000	341																						Nashua	Yes	\$ 31.13	\$ 623	
Replace Vehicle #66		Replace Vehicle #66	\$ 45,000	341																						Nashua	No	\$	\$ -	
Replace Vehicle #101		Replace Vehicle #101	\$ 30,000	341																						Nashua	No	\$	\$ -	
Large pump/motor rebuild		Large pump/motor rebuild	\$ 30,000	311							\$ 30,000															Nashua	No	\$	\$ -	
PWW CWS well rehabilitations (4 locations)		PWW CWS well rehabilitations (4 locations)	\$ 80,000	307				\$ 80,000																		Nashua	Yes	\$ 31.13	\$ 934	
Purchase new lab equipment		Purchase new lab equipment	\$ 10,000	344																						Derry	Yes	\$ 33.22	\$ 2,658	
WTP structural/HVAC		WTP structural/HVAC	\$ 15,000	304		\$ 15,000																\$ 10,000				Nashua	No	\$	\$ -	
Misc Security upgrades for remote facilities		Misc. Fencing/Security Projects	\$ 25,000	304		\$ 25,000																				Nashua	Yes	\$ 31.13	\$ 467	
Misc. SCADA/Electrical		Misc. SCADA/Electrical	\$ 30,000	347																						Nashua	Yes	\$ 31.13	\$ 778	
Replace roof - WTP structure- Boat House		Replace roof - WTP structure- Boat House	\$ 50,000	304		\$ 50,000																				Nashua	Yes	\$ 31.13	\$ 934	
Water Supply - Watershed Public Education		Fertilization / Pesticide - Phase 2	\$ 20,000	305			\$ 20,000																			Nashua	Yes	\$ 31.13	\$ 1,557	
Manhattan Drive Storm Water BMP, Amherst		Manhattan Drive Storm Water BMP, Amherst	\$ 375,000	305			\$ 375,000																			Nashua	Yes	\$ 31.13	\$ 623	
Asset Management - Phase 5		Asset Management	\$ 300,000	347																						Amherst	Yes	\$ 30.67	\$ 11,501	
Miscellaneous Software		Miscellaneous Software	\$ 12,000	347																						Merimack	Yes	\$ 31.32	\$ 9,396	
Miscellaneous Hardware		Miscellaneous Hardware	\$ 15,000	347																						Merimack	No	\$	\$ -	
Information Technology Projects/Replacements/upgrades		Various Projects	\$ 400,000	347																						Merimack	No	\$	\$ -	
Website Upgrades			\$ 20,000	347																						Merimack	No	\$	\$ -	
Total Projected 2018 PWW Capital Expenditures -			\$ 10,754,500		\$ -	\$ 110,000	\$ 395,000	\$ 5,200,000	\$ 80,000	\$ -	\$ -	\$ 90,000	\$ 15,000	\$ -	\$ 2,811,000	\$ 82,500	\$ 555,000	\$ 43,000	\$ -	\$ 339,000	\$ 26,000	\$ 10,000	\$ 168,000	\$ 830,000	Projected Property Tax Expenses -			\$ 287,256		
Depreciation Rate by Chart of Account -					0.00%	2.46%	1.79%	2.00%	3.33%	1.50%	4.55%	4.18%	4.73%	2.18%	1.50%	2.34%	4.78%	2.24%	8.08%	9.44%	6.67%	5.00%	6.00%	14.29%						
Projected Full Year Depreciation Expense by Chart of Account -					\$ -	\$ 2,706	\$ 7,071	\$ 104,000	\$ 2,664	\$ -	\$ -	\$ 3,762	\$ 710	\$ -	\$ 42,163	\$ 1,931	\$ 26,529	\$ 963	\$ -	\$ 32,002	\$ 1,734	\$ 500	\$ 10,080	\$ 118,607						

PWW0023

**STATE OF NEW HAMPSHIRE**  
**BEFORE THE**  
**NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION**  
**DW 17-\_\_\_\_**  
**Pennichuck Water Works, Inc.**

**DLW-1**  
**2019 STEP ADDITIONS**

**PWW0024**



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

Project Name/Description		Estimated																				Tax Rate		Annual					
		Project Cost	Acct #	303	304	305	306	307	309	310	311	320	330	331	333	334	335	340	341	343	344	345	347	Community	Taxable	(I)	Tax Expense		
Replace Aging Services	Replace Aging Services	25 Renewed Services	\$ 86,000	333											\$ 86,000										Nashua	Yes	\$ 31.13	\$ 2,677	
	Repalce Aging Hydrants	10 Hydrants Replacements	\$ 44,000	335													\$ 44,000								Nashua	Yes	\$ 31.13	\$ 1,370	
	Replace Aging Valves	10 Valve Replacements	\$ 32,000	331											\$ 32,000										Nashua	Yes	\$ 31.13	\$ 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	\$ 31.13	\$ 22,958	
	Metal Detectors (6)	Metal Detectors (6)	\$ 6,000	343																	\$ 6,000				Merrimack	No	\$	\$	
	Ferromagnetic Pipe locators (3)	Ferromagnetic Pipe locators (3)	\$ 11,000	343																	\$ 11,000				Merrimack	No	\$	\$	
	Service Truck replacement (truck TBD)	Service Truck replacement (truck TBD)	\$ 62,500	341																	\$ 62,500				Merrimack	No	\$	\$	
	Meter service van replacement (van #TBD)	Meter service van replacement (van #TBD)	\$ 35,000	341																	\$ 35,000				Merrimack	No	\$	\$	
	Replacement CE Units (4)	Replacement CE Units (4)	\$ 13,000	347																			\$ 13,000			Merrimack	No	\$	\$
	Pressure recorders	Pressure recorders	\$ 5,000	343																	\$ 5,000				Merrimack	No	\$	\$	
Trench compaction equipment	Trench compaction equipment	\$ 8,000	343																	\$ 8,000				Merrimack	No	\$	\$		
Backhoe replacement	Backhoe replacement	\$ 125,000	345																			\$ 125,000			Merrimack	No	\$	\$	
Large Dump Truck Replacement (#TBD)	Large Dump Truck Replacement (#TBD)	\$ 130,000	345																			\$ 130,000			Merrimack	No	\$	\$	
Project Paving	Carry over from 2018 water main replacement projects	\$ 345,000	331												\$ 345,000										Nashua	No	\$	\$	
Kessler Farm Tank	Reconstruction	\$ 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												\$ 350,000										Amherst	Yes	\$ 30.67	\$ 10,735	
Amherst Water Main	Location tbd, project in conjunction with Amherst Stormwater Replacement program	\$ 325,000	331												\$ 325,000										Amherst	Yes	\$ 30.67	\$ 9,968	
Nashua water Main	Replace CI or A/C	\$ 1,350,000	331												\$ 1,350,000										Nashua	Yes	\$ 31.13	\$ 42,026	
City Paving	Replacement of unlined CI and/or steel water main in conjunction with City Paving	\$ 500,000	331												\$ 500,000										Nashua	Yes	\$ 31.13	\$ 15,565	
City Sewer Projects - TBD	Aging infrastructure replacement in coordination with sewer replacement	\$ 425,000	331												\$ 425,000										Nashua	Yes	\$ 31.13	\$ 13,230	
Trimble GPS Units	Used for field locating Assets via GIS program	\$ 15,000	347																			\$ 15,000			Merrimack	Yes	\$ -	\$ -	
Engineering Vehicles	Two Vehicles	\$ 64,000	341																						Merrimack	No	\$	\$ -	
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements	\$ 60,000	311								\$ 60,000														Derry	Yes	\$ 33.22	\$ 1,993	
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS	\$ 15,000	320									\$ 15,000													Derry	Yes	\$ 33.22	\$ 498	
Misc. Structural Improvements	Misc. Structural Improvements	\$ 20,000	304		\$ 20,000																				Nashua	Yes	\$ 31.13	\$ 623	
Large pump/motor rebuild	Large pump/motor rebuild	\$ 30,000	311								\$ 30,000														Nashua	Yes	\$ 30.67	\$ 920	
Misc. Structural Improvements	Misc. Structural Improvements	\$ 20,000	304		\$ 20,000																				Nashua	Yes	\$ 31.13	\$ 623	
PWW CWS well rehabilitations (4 locations)	PWW CWS well rehabilitations (4 locations)	\$ 80,000	307					\$ 80,000																	Derry	Yes	\$ -	\$ -	
Purchase new lab equipment	Purchase new lab equipment	\$ 10,000	344																			\$ 10,000			Nashua	No	\$	\$ -	
WTP structural/HVAC	WTP structural/HVAC	\$ 15,000	304		\$ 15,000																				Nashua	Yes	\$ 31.13	\$ 467	
Misc Security upgrades for remote facilities	Misc. Fencing/Security Projects	\$ 25,000	304		\$ 25,000																				Nashua	Yes	\$ 31.13	\$ 778	
Misc. SCADA/Electrical	Misc. SCADA/Electrical	\$ 30,000	347																				\$ 30,000			Nashua	Yes	\$ 31.13	\$ 934
Replace Flashboard Bowers Dam	Replace Flashboard Bowers Dam	\$ 600,000	305																										
WTP Replacement Vehicles	Replace 4 vehicles	\$ 200,000	341																							Nashua	No	\$	\$ -
Craftsman Lane Storm Water BMP, Amherst	Craftsman Lane Storm Water BMP, Amherst	\$ 210,000	305		\$ 210,000																					Amherst	Yes	\$ 31.13	\$ 6,537
Asset Management - Phase 6	Asset Management	\$ 300,000	347																				\$ 300,000			Merrimack	Yes	\$ 31.13	\$ 9,339
Miscellaneous Software	Miscellaneous Software	\$ 12,000	347																						Merrimack	No	\$	\$ -	
Miscellaneous Hardware	Miscellaneous Hardware	\$ 15,000	347																						Merrimack	No	\$	\$ -	
Informatin Technology Projects/Replacements/upgrades	Various Projects	\$ 400,000	347																						Merrimack	No	\$	\$ -	
Total Projected 2018 PWW Capital Expenditures -		\$ 9,736,000		\$ -	\$ 80,000	\$ 210,000	\$ -	\$ 80,000	\$ -	\$ -	\$ 90,000	\$ 15,000	\$ 2,800,000	\$ 3,327,000	\$ 86,000	\$ 737,500	\$ 44,000	\$ -	\$ 361,500	\$ 30,000	\$ 10,000	\$ 255,000	\$ 785,000	Projected Property Tax Expenses -			\$ 229,401		
Depreciation Rate by Chart of Account -				0.00%	2.46%	1.79%	2.00%	3.33%	1.50%	4.55%	4.18%	4.73%	2.18%	1.50%	2.34%	4.78%	2.24%	8.08%	9.44%	6.67%	5.00%	6.00%	14.29%						
Projected Full Year Depreciation Expense by Chart of Account -				\$ -	\$ 1,968	\$ 3,759	\$ -	\$ 2,664	\$ -	\$ -	\$ 3,762	\$ 710	\$ 61,040	\$ 49,905	\$ 2,012	\$ 35,253	\$ 986	\$ -	\$ 34,126	\$ 2,001	\$ 500	\$ 15,300	\$ 112,177						

**STATE OF NEW HAMPSHIRE**  
**BEFORE THE**  
**NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION**

**DW 17-\_\_\_\_**

**Pennichuck Water Works, Inc.**

**DLW-2**  
**2017 INTERIM QPAC TIMELINE**

**PWW0025**

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	-	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	-	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 2017 used and useful capex and presents 2018-2020 Board approved capex	-	Before end of First week in February 2018	COO/Regulatory
Bonds to finance 2017 used and useful Capex issued	-	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	-	07/15/18	NHPUC
Commission Order	-	August 2017 <sup>1</sup>	NHPUC
NISI order Perfected	-	09/01/18	COO & Regulatory
File Compliance Tariff reflecting approved Step rates for 2017 Capex inclusive of recoupment calculation on service rendered after 3/1/2018	-	09/14/18	COO, Regulatory & 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.