

	DW16-806 Approved Step Revenue Requirements (11)	Requested QCPAC For 2017 Capital Additions pro formas	Requested QCPAC Surcharge for 2017 Capital Additions	Projected QCPAC For 2018 Capital Additions pro formas (7,8,14)	Projected QCPAC Surcharge for 2018 Capital Additions	QCPAC For 2019 Capital Additions pro formas (7,8)	QCPAC Surcharge for 2019 Capital Additions	QCPAC For 2020 Capital Additions pro formas (7,8)	QCPAC Surcharge for 2020 Capital Additions	QCPAC For 2021 Capital Additions pro formas (7,8)	QCPAC Surcharge for 2021 Capital Additions
City Bond Fixed Revenue Requirement (CBFRR)	\$7,729,032		\$ 7,729,032	\$ -	\$ 7,729,032	\$ -	\$ 7,729,032	\$ -	\$ 7,729,032	\$ -	\$ 7,729,032
Operating Expense Revenue Requirement	\$16,442,012 (1)(11)	\$ 122,079 (4)	\$ 16,564,090	\$ 198,464	\$ 16,762,554	\$ 476,146	\$ 17,238,700	\$ 262,509	\$ 17,501,208	\$ 267,440	\$ 17,768,648
Annual Principal and Interest Payments	\$6,218,648 (2)	\$365,418 (5)(10)	\$ 6,584,066	\$490,843	\$ 7,074,908	\$1,035,217	\$ 8,110,125	\$700,422	\$ 8,810,547	\$785,941	\$ 9,596,488
Principal and Interest Coverage Requirement	1.10 (3)		1.10		1.10		1.10		1.10		1.10
Principal and Interest Revenue Requirement	\$ 6,840,513		\$ 7,242,472		\$ 7,782,399		\$ 8,921,138		\$ 9,691,602		\$ 10,556,137
Proposed Revenue Requirement	\$ 31,011,556		\$ 31,535,594		\$ 32,273,985		\$ 33,888,870		\$ 34,921,842		\$ 36,053,817
Current Water Revenues excluding CBFRR	\$20,694,038		\$ 23,282,524		\$ 23,806,562		\$ 24,544,953		\$ 26,159,838		\$ 27,192,810
Add: City Bond Fixed Revenue Requirement	\$7,729,032		\$ 7,729,032		\$ 7,729,032		\$ 7,729,032		\$ 7,729,032		\$ 7,729,032
Current Water Revenues with CBFRR	\$ 28,423,070		\$ 31,011,556		\$ 31,535,594		\$ 32,273,985		\$ 33,888,870		\$ 34,921,842
Percent QCPAC Surcharge (9)			1.69%		2.38%		5.21%		3.33%		3.65%
Cumulative QCPAC Surcharge (13)					4.07%		9.28%		12.61%		16.26%
Cumulative QCPAC monthly increase in average single family residential bill			\$ 0.91		\$ 2.20		\$ 5.01		\$ 6.81		\$ 8.78
Average monthly single family residential bill with QCPAC			\$ 54.90		\$ 56.18		\$ 58.99		\$ 60.79		\$ 62.76

Notes:

- Operating Expense Revenue requirement is the sum of the Total Operating Expenses, Property Tax Expense, Amortization Expense and Payroll Tax Expenses approved in DW16-806
- Annual Principal and interest payments for PWW debt associated with all plant in service as approved in DW16-806
- Principal and interest coverage of 1.10 is as approved in DW16-806
- Reflects the net increase in property taxes associated with the plant placed in service between 1/1/2017 and 12/31/2017 that was not included in DW16-806.
- Portion of Annual Principal and interest payments for debt associated with plant placed in service between 1/1/2017 and 12/31/2017 based on a 30 year bond with an actual total all in interest rate of 4.898453% that was not recovered in DW16-806
- QCPAC operating expenses are based on the property taxes for plant added during the year
- QCPAC Principal and Interest expenses are based on 30 year bond with interest rate of 5.5% for 2019 through 2021 Capital Expenditures unless funding is via an SRF/DWGTFF financing.
- QCPAC percent revenue surcharges based on increase in revenues from the step revenues granted in DW16-806
- Portion of QCPAC Principal and Interest associated with SRF loan of \$ 767,357 for 2017 work completed on Amherst Street project based on the fact that \$ 27,746.00 of P&I was recovered in DW16-806 leaving \$ 25,178.00 of remaining P&I on this SRF loan to be collected via the QCPAC surcharge. The remaining P&I is based on the amortization schedule for this loan provided by the NHDES and is the P&I payment due the State in 2018 after principal forgiveness.
- Reduction in revenues associated with fixed contracts as follows:
Hudson Annual Fixed Chg \$ 32,800 Milford Annual Fixed Chg \$ 81,000.00 A-B Annual Fixed Chg \$ 371,430.48
- QCPAC Principal and Interest expenses for DWGTFF financing are based on a 30 year bond with interest rate of 3.38%
- Cumulative surcharge percentage is based on total surcharge revenues collected divided by the step revenues granted in DW16-806
- Portion of Annual Principal and interest payments for debt associated with plant placed in service between 1/1/2018 and 12/31/2018 based on a 30 year bond with an actual total all in interest rate of 4.222191% Average Coupon rate as the all-in TIC (Total Interest Cost) for the \$ 8,250,000.00 which includes the 2018 capital project costs of \$ 8,229,376.70 plus Cost of Issuance and net Premium/Discount on the issued bonds.

Impact on Single Family Residential Home:

Monthly meter charge granted in DW16-806, inclusive of Step increase -	\$ 22.58
Average Single Family Consumption (CCF) -	8.58 at time of DW16-806 filing
Consumption Charge granted in DW16.806, inclusive of Step increase -	\$ 3.66
Ave. Single Family monthly bill with rates granted in DW16-806, inclusive of step -	\$ 53.98

Project Name/Description	Project Description	Work Order #	Financing Docket No.	Approved Budgeted Amount	Estimated Project Cost as of 6/30/2018	Estimated Project Cost as of 9/30/2018	Estimated Project Cost as of 11/30/2018	Final Project cost as of 12/31/2018	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 1/30/2018
Unitrends RC823S	Backup and Disaster Recovery Device	1617283	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 27,998	Merrimack	No	\$ 28.92	\$ -	
W. Allds St. Water Main Replacement - Main Street Nashua Intersections	W. Allds St. Water Main Replacement - Main Street Nashua Intersections	1700632	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 27,969	Nashua	Yes	\$ 27.81	\$ 778	
W Allds Street Phase II (Main to end) Int with Main Street Nashua Inters	W Allds Street Phase II (Main to end) Int with Main Street Nashua Inters	1700676	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 6,531	Nashua	Yes	\$ 27.81	\$ 182	
TIG Welder	TIG Welder	1900419	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 2,955	Merrimack	No	\$ 28.92	\$ -	
Utility Truck Replacement	Replacement of #47 with Truck #315	1900418	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 62,215	Merrimack	No	\$ 28.92	\$ -	
Additional Trench Boxes	Additional Trench Boxes	1826437	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 22,241	Merrimack	No	\$ 28.92	\$ -	
Overhead Crane and Door	WTP Process Area Installation	1807303	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 19,761	Nashua	Yes	\$ 27.81	\$ 550	
Sweet Hill Well #3	Sweet Hill Well #3 (2018 Carryover)	1813054	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 2,408	Plastow	Yes	\$ 28.93	\$ 70	
SCADA System Upgrade	WTP - 2018 replace all SCADA computers and upgrade system	1813303	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 20,642	Nashua	Yes	\$ 27.81	\$ 574	
Amherst Water System Expansion	Meters and Radios	1806832	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 16,646	Amherst	Yes	\$ 31.59	\$ 526	Meters and Radios for PFOA customers in Amherst
#353-Service Truck Replacement (#47)	#353-Service Truck Replacement (#47)	1813945	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 1,103	Merrimack	No	\$ 27.81	\$ -	
Retainage	Retainage		2019 Docket					\$ (197,247)	Nashua	Yes	\$ 27.81	\$ (5,485)	Please see the "Retainage Support" tab for breakdown of amount. This is retainage on projects completed above. The \$\$ held in retainage will need to be recovered in 2020 QCPAC.
				\$ 10,008,000	\$ 9,102,095	\$ 6,807,006	\$ 8,600,675	\$ 8,263,302	Projected Property Tax Expense associated with 2018 QCPAC projects -		\$ 198,464		

1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000

Total PWW Capex for 2018 - \$ 8,263,302

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 2/9/2019
New Services (10)	Single Family, Owner Build, New Homes		DW17-183	26,101	2/2/2018	\$ 46,000	Yes	Various	Yes	\$ 28.85	\$ 1,327	
Renewed Services (20)	Replacement of failed services		DW17-183	26,101	2/2/2018	\$ 92,000	Yes	Various	Yes	\$ 28.85	\$ 2,654	
Hydrants (10)	Replacement of non functional hydrants		DW17-183	26,101	2/2/2018	\$ 50,000	Yes	Various	Yes	\$ 28.85	\$ 1,443	
Gates (10)	Replacement of Failed Gate Valves		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Various	Yes	\$ 28.85	\$ 1,154	
Radios (300)	Replace out of warrantee failed radio meter readers		DW17-183	26,101	2/2/2018	\$ 30,000	Yes	Various	Yes	\$ 28.85	\$ 866	
Meters (Growth) 5/8"-2" - Core & CWS (480)	Meters (Growth) 5/8"-2" - Core & CWS (480)		DW17-183	26,101	2/2/2018	\$ 48,000	Yes	Various	Yes	\$ 28.85	\$ 1,385	
Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)	Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)		DW17-183	26,101	2/2/2018	\$ 300,000	Yes	Various	Yes	\$ 28.85	\$ 8,655	
Entrance Security Gate & Perimeter Fence	Entrance Security Gate & Perimeter Fence		DW17-183	26,101	2/2/2018	\$ 75,000	Yes	Merrimack	Yes	\$ 28.92	\$ 2,169	
Replace 13 yr Vac Trailer - Safety & Maint issue	Replace 13 yr Vac Trailer - Safety & Maint issue		DW17-183	26,101	2/2/2018	\$ 100,000	Yes	Merrimack	Yes	\$ 28.92	\$ 2,892	
Protectus Meter Upgrade	Spitbrook Rd Protectus Meter Upgrade		DW17-183	26,101	2/2/2018	\$ 21,000	Yes	Nashua	Yes	\$ 27.81	\$ 584	
Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 550,000	Yes	Nashua	Yes	\$ 27.81	\$ 15,296	
Elm Street	Replace 875 LF of 6 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 559,350	Yes	Nashua	Yes	\$ 27.81	\$ 15,556	
Monroe Street	Replace 310 LF of 4 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 122,270	Yes	Nashua	Yes	\$ 27.81	\$ 3,400	
W.Pearl Street	Replace 260 LF of 8 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 138,050	Yes	Nashua	Yes	\$ 27.81	\$ 3,839	
Harvard Street	Replace 800 LF of 8 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 247,500	Yes	Nashua	Yes	\$ 27.81	\$ 6,883	
West Hollis Street Check Valve Pit	Install at the int of W. Hollis St and Panther Dr.		DW17-183	26,101	2/2/2018	\$ -	Yes	Nashua	Yes	\$ 27.81	\$ -	
NWS Improvements - Manchester Street	Add 2700 LF of 24 inch DIPCL on Manchester St.					\$ 660,000	Yes	Nashua	Yes	\$ 27.81	\$ 18,355	
NWS Improvements -Route 101A and Route 121 (Amherst)	Add 2200 LF of 12 inch DIPCL to close loop					\$ 550,000	Yes	Nashua	Yes	\$ 27.81	\$ 15,296	
NWS Improvements - Tinker Road	Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL					\$ 522,500	Yes	Nashua	Yes	\$ 27.81	\$ 14,531	
NWS Improvements - Deerwood Drive & Amherst St. Intersection	Replace 1300 LF of 12 inch AC with 1300 LF of 24 inch DIPCL					\$ 467,500	Yes	Nashua	Yes	\$ 27.81	\$ 13,001	
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking					\$ 635,800	Yes	Nashua	Yes	\$ 27.81	\$ 17,682	
NWS Improvements Ponemah Rd/Route 101A Loop	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends					\$ 484,000	Yes	Nashua	Yes	\$ 27.81	\$ 13,460	
City of Nashua Sewer - Chase Street	Replace 470 LF of 6 inch CIP with 470 LF of 6 inch DIPCL		DW17-183	26,101	2/2/2018		Yes	Nashua	Yes	\$ 27.81	\$ 75,087	
City of Nashua Sewer - Ash Street	Replace 710 LF of 6 inch CIP with 710 LF of 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 2,700,000	Yes	Nashua	Yes	\$ 27.81	\$ -	
City of Nashua Sewer - Lake Street	Replace 2950 LF of 6 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018		Yes	Nashua	Yes	\$ 27.81	\$ -	
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River		DWGTF Financing			\$ 5,500,000	Yes	Merrimack	Yes	\$ 28.92	\$ 159,060	
Asset Management Outside GIS Consulting Services	Outside GIS Consulting Services		DW17-183	26,101	2/2/2018	\$ 60,000	Yes	Various	No		\$ -	
Asset Management Water Modeling Consulting	Water Modeling Consulting		DW17-183	26,101	2/2/2018	\$ 36,000	Yes	Various	No		\$ -	
Asset Management Trimble R2 Units	Trimble R2 Units		DW17-183	26,101	2/2/2018	\$ 14,000	Yes	Various	Yes	\$ 28.85	\$ 404	
Investment in developer installed services at 1x annual revenue	Per tariff		DW17-183	26,101	2/2/2018	\$ 60,000	Yes	Various	Yes	\$ 28.85	\$ 1,731	
Bower Dam reconstruction and engineering	Bower Dam reconstruction and engineering		DW17-183	26,101	2/2/2018	\$ 25,000	No	Merrimack	No		\$ -	Design Engineering Work for 2020 Dam rehabilitation
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Various	Yes	\$ 28.85	\$ 1,154	
Well Pump replacements	Well Pump replacements		DW17-183	26,101	2/2/2018	\$ 15,000	Yes	Various	Yes	\$ 28.85	\$ 433	
Chemical Feed pump replacements	Chemical Feed pump replacements		DW17-183	26,101	2/2/2018	\$ 10,000	Yes	Various	Yes	\$ 28.85	\$ 289	
Upgrade SCADA historian software, new hardware	upgrade SCADA historian software, new hardware		DW17-183	26,101	2/2/2018	\$ 150,000	Yes	Various	Yes	\$ 28.85	\$ 4,328	
Twin Ridge rebuild softener system, install radon treatment	Twin Ridge rebuild softener system, install radon treatment		DW17-183	26,101	2/2/2018	\$ 50,000	Yes	Plaistow	Yes	\$ 28.85	\$ 1,443	
Misc. Structural Improvements	Misc. Structural Improvements		DW17-183	26,101	2/2/2018	\$ 20,000	Yes	Various	Yes	\$ 28.85	\$ 577	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW17-183	26,101	2/2/2018	\$ 17,500	Yes	Various	Yes	\$ 28.85	\$ 505	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW17-183	26,101	2/2/2018	\$ 30,000	Yes	Various	Yes	\$ 28.85	\$ 866	
WTP Structural/HVAC	WTP Structural/HVAC		DW17-183	26,101	2/2/2018	\$ 10,000	Yes	Nashua	Yes	\$ 28.85	\$ 289	
Purchase new lab equipment	Purchase new lab equipment		DW17-183	26,101	2/2/2018	\$ 20,000	Yes	Nashua	Yes	\$ 28.85	\$ 577	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW17-183	26,101	2/2/2018	\$ 10,000	Yes	Various	Yes	\$ 28.85	\$ 289	
Replace Ferric Chloride Feed pump	Replace Ferric Chloride Feed pump		DW17-183	26,101	2/2/2018	\$ 10,000	Yes	Nashua	Yes	\$ 28.85	\$ 289	
Carbon media changeout-filters 1 & 2	Carbon media changeout-filters 1 & 2		DW17-183	26,101	2/2/2018	\$ 525,000	Yes	Nashua	Yes	\$ 28.85	\$ 15,146	
Add 3rd pump at Main Dunstable Booster, replace 1 existing	Add 3rd pump at Main Dunstable Booster, replace 1 existing		DW17-183	26,101	2/2/2018	\$ 120,000	Yes	Nashua	Yes	\$ 28.85	\$ 3,462	
Replace Kessler Farm booster pump package	Replace 20 year old package booster station pumps and piping. Piping is steel which is beginning to pit		DW17-183	26,101	2/2/2018	\$ 75,000	Yes	Nashua	Yes	\$ 28.85	\$ 2,164	
Stump Pond Subwatershed assessment	Stump Pond Subwatershed assessment		DW17-183	26,101	2/2/2018	\$ 25,000	No	Merrimack	No		\$ -	Study - Amortized expense
Stump Pond Stormwater BMP	Stump Pond Stormwater BMP		DW17-183	26,101	2/2/2018	\$ 20,000	No	Merrimack	No		\$ -	BMP Engineering and Design
Public Education -Watershed signage	Public Education -Watershed signage		DW17-183	26,101	2/2/2018	\$ 20,000	Yes	Merrimack	Yes	\$ 28.85	\$ 577	
Replace 2 Hach Turbidimeters and associated control module	Replace 2 Hach Turbidimeters and associated control module		DW17-183	26,101	2/2/2018	\$ 10,000	Yes	Nashua	Yes	\$ 28.85	\$ 289	
Fiber Conduit between WTP and Dist	Install Fiber Conduit between Water Treatment Plant and Distribution to eliminate ongoing Comcast Ethernet line to one of the buildings		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Nashua	No		\$ -	
Munis FER Enhancements	Munis FER Enhancements		DW17-183	26,101	2/2/2018	\$ 35,000	Yes	Merrimack	No		\$ -	
Wireless Access Points for Main Office	Wireless Access Points for Main Office		DW17-183	26,101	2/2/2018	\$ 14,000	Yes	Merrimack	No		\$ -	
KVM for Data Center	personal video terminal for data center so that multiple servers can be accessed by one console without having to move from server to server (to be replaced by remote access solution)		DW17-183	26,101	2/2/2018	\$ 2,500	Yes	Merrimack	No		\$ -	
IOS Charging Station	Charging Station for multiple iPads to allow for upgrades across multiple devices concurrently.		DW17-183	26,101	2/2/2018	\$ 1,200	Yes	Merrimack	No		\$ -	
Digital Signage for Distribution	Digital Signage for Distribution allowing notices and schedules to be more prominently displayed		DW17-183	26,101	2/2/2018	\$ 2,000	Yes	Merrimack	No		\$ -	
VDI Pilot	A pilot to determine whether a Virtual Desktop Infrastructure would be feasible for our environment		DW17-183	26,101	2/2/2018	\$ 12,000	Yes	Merrimack	No		\$ -	
Misc Hardware	Misc Hardware		DW17-183	26,101	2/2/2018	\$ 20,000	Yes	Merrimack	No		\$ -	
Misc Software	Misc Software		DW17-183	26,101	2/2/2018	\$ 12,000	Yes	Merrimack	No		\$ -	
Website upgrades	Website upgrades		DW17-183	26,101	2/2/2018	\$ 8,000	Yes	Merrimack	No		\$ -	
Implement Customer Balances over the phone	Implement Customer Balances over the phone		DW17-183	26,101	2/2/2018	\$ 4,000	No	Merrimack	No		\$ -	
Pennichuck Water Works Projected 2019 Total Capital Expenditure Budget -						\$ 15,462,170		Projected Property Tax Expense associated with		\$ 429,380		

1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000

Total Projected PWW QCPAC Capex for 2019 - \$ 15,392,170
Amount funded by SRF/DWGTF - \$ 8,819,800
Amount to be funded by 2020 Bond Issue - \$ 6,572,370

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 2/9/2019
New Services (10)	Single Family, Owner Build, New Homes		DW17-183	26,101	2/2/2018	\$ 46,000	Yes	Various	Yes	\$ 28.85	\$ 1,327	
Renewed Services (20)	Replacement of failed services		DW17-183	26,101	2/2/2018	\$ 92,000	Yes	Various	Yes	\$ 28.85	\$ 2,654	
Hydrants (10)	Replacement of non functional hydrants (Run rate) (8 YTD)		DW17-183	26,101	2/2/2018	\$ 50,000	Yes	Various	Yes	\$ 28.85	\$ 1,443	
Gates (10)	Replacement of Failed Gate Valves		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Various	Yes	\$ 28.85	\$ 1,154	
Radios (300)	Replace out of warrantee failed radio meter readers		DW17-183	26,101	2/2/2018	\$ 30,000	Yes	Various	Yes	\$ 28.85	\$ 866	
Meters (Growth) 5/8"-2" - Core & CWS (480)	Meters (Growth) 5/8"-2" - Core & CWS (480)		DW17-183	26,101	2/2/2018	\$ 48,000	Yes	Various	Yes	\$ 28.85	\$ 1,385	
Meters 5/8"-6" Lead Meter Exchange - Core & CWS (1000)	Meters 5/8"-6" Lead Meter Exchange - Core & CWS (1000)		DW17-183	26,101	2/2/2018	\$ 100,000	Yes	Various	Yes	\$ 28.85	\$ 2,885	
New Utility Vehicle (2)	New Utility Vehicles to replace existing high mileage/maintenance vehicles		DW17-183	26,101	2/2/2018	\$ 130,000	Yes	Merrimack	No	\$ 28.92	\$ -	
New Utility Van (2)	New Utility Vans to replace existing high mileage/maintenance vans		DW17-183	26,101	2/2/2018	\$ 70,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade -		DW17-183	26,101	2/2/2018	\$ 22,000	Yes	Nashua	Yes	\$ 27.81	\$ 612	
Trimble Units for Meter Reading (2)	Replacement of CE Meter Reading Equipment (2)		DW17-183	26,101	2/2/2018	\$ 16,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Residual paving from 2019 main replacement	Residual paving from prior year main replacement		DW17-183	26,101	2/2/2018	\$ -	Yes	Nashua	Yes	\$ 27.81	\$ -	Pavement for 2019 projects moved back to 2019 Capex
Brook Street	Replace 225 LF of 4 inch and 915 LF of 6 inch CI with 1140 LF of 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 422,730	Yes	Nashua	Yes	\$ 27.81	\$ 11,756	
Hamilton Street	Replace 410 LF of 6 inch CI with 4 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 97,130	Yes	Nashua	Yes	\$ 27.81	\$ 2,701	
Ash Street	Replace 510 LF of 6 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 191,510	Yes	Nashua	Yes	\$ 27.81	\$ 5,326	
Burritt Street	Replace 425 LF of 4 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 157,080	Yes	Nashua	Yes	\$ 27.81	\$ 4,368	
Burritt Street	Replace 125 LF of 4 inch CI with 4 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 43,010	Yes	Nashua	Yes	\$ 27.81	\$ 1,196	
Verona Street	Replace 675 LF of 6 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 251,130	Yes	Nashua	Yes	\$ 27.81	\$ 6,984	
Sarasota Ave	Replace 250 LF of 6 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 92,620	Yes	Nashua	Yes	\$ 27.81	\$ 2,576	
Alld Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 966,570	Yes	Nashua	Yes	\$ 27.81	\$ 26,880	
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 546,920	Yes	Nashua	Yes	\$ 27.81	\$ 15,210	
Taylor Road (Lynn St to Fifield St)	Replace 725 LF of 8 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 365,750	Yes	Nashua	Yes	\$ 27.81	\$ 10,172	
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 457,160	Yes	Nashua	Yes	\$ 27.81	\$ 12,714	
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 151,140	Yes	Nashua	Yes	\$ 27.81	\$ 4,203	
Water Main Replacement - City Sewer Projects	Replacement of various sections of CI pipe		DW17-183	26,101	2/2/2018	\$ -	Yes	Nashua	Yes	\$ 27.81	\$ -	
Kessler Farm Tank Replacement	Kessler Farm Tank Replacement		DW17-183	26,101	2/2/2018	\$ 3,388,000	Yes	Nashua	Yes	\$ 27.81	\$ 94,220	
Replace Engineering Pickup	Replace Pickup with > 150,000 miles		DW17-183	26,101	2/2/2018	\$ 35,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Replace Engineering SUV	Replace SUV with > 150,000 miles		DW17-183	26,101	2/2/2018	\$ 30,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Investment in developer installed services at 1xannual revenue	Per tariff		DW17-183	26,101	2/2/2018	\$ 60,000	Yes	Various	Yes	\$ 28.85	\$ 1,731	
Bowers Dam reconstruction	Bowers Dam reconstruction		DW17-183	26,101	2/2/2018	\$ 900,000	Yes	Merrimack	Yes	\$ 28.92	\$ 26,028	
WTP Perimeter fence	WTP Perimeter fence		DW17-183	26,101	2/2/2018	\$ 80,000	Yes	Merrimack	Yes	\$ 28.92	\$ 2,314	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW17-183	26,101	2/2/2018	\$ 55,000	Yes	Various	Yes	\$ 28.85	\$ 1,587	
Well Pump replacements	Well Pump replacements		DW17-183	26,101	2/2/2018	\$ 18,750	Yes	Various	Yes	\$ 28.85	\$ 541	
Chemical Feed pump replacements	Chemical Feed pump replacements		DW17-183	26,101	2/2/2018	\$ 15,000	Yes	Various	Yes	\$ 28.85	\$ 433	
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS		DW17-183	26,101	2/2/2018	\$ 18,750	Yes	Various	Yes	\$ 28.85	\$ 541	
Misc. Structural Improvements	Misc. Structural Improvements		DW17-183	26,101	2/2/2018	\$ 27,500	Yes	Various	Yes	\$ 28.85	\$ 793	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW17-183	26,101	2/2/2018	\$ 17,500	Yes	Various	Yes	\$ 28.85	\$ 505	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW17-183	26,101	2/2/2018	\$ 27,500	Yes	Various	Yes	\$ 28.85	\$ 793	
Well Rehabilitation	Well Rehabilitation		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Various	Yes	\$ 28.85	\$ 1,154	
WTP Structural/HVAC	WTP Structural/HVAC		DW17-183	26,101	2/2/2018	\$ 7,500	Yes	Nashua	Yes	\$ 27.81	\$ 209	
Purchase new lab equipment	Purchase new lab equipment		DW17-183	26,101	2/2/2018	\$ 15,000	Yes	Nashua	No	\$ 27.81	\$ -	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW17-183	26,101	2/2/2018	\$ 7,500	Yes	Various	Yes	\$ 28.85	\$ 216	
Replace Vehicle	Replace Vehicle		DW17-183	26,101	2/2/2018	\$ 65,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle		DW17-183	26,101	2/2/2018	\$ 65,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle		DW17-183	26,101	2/2/2018	\$ 40,000	Yes	Nashua	No	\$ 27.81	\$ -	
Carbon Media changeout - filters 3 & 4	Carbon Media changeout - filters 3 & 4		DW17-183	26,101	2/2/2018	\$ 525,000	Yes	Nashua	Yes	\$ 27.81	\$ 14,600	
Arsenic treatment to respond to new MCL	Arsenic treatment to respond to new MCL		DW17-183	26,101	2/2/2018	\$ 15,000	Yes	Various	Yes	\$ 28.85	\$ 433	
Various IT Projects	Maintain and replace aging software and hardware		DW17-183	26,101	2/2/2018	\$ 300,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Pennichuck Water Works Projected 2020 Total Capital Expenditure Budget -						\$ 10,179,750		Projected Property Tax Expense associated with		\$ 262,509		

Total Projected PWW QCPAC Capex for 2020 - \$ 10,179,750

1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 2/9/2019
New Services (10)	Single Family, Owner Build, New Homes				Future Financing Petition	\$ 46,000	Yes	Various	Yes	\$ 28.85	\$ 1,327	
Renewed Services (20)	Replacement of failed services				Future Financing Petition	\$ 92,000	Yes	Various	Yes	\$ 28.85	\$ 2,654	
Hydrants (10)	Replacement of non functional hydrants (Run rate) (8 YTD)				Future Financing Petition	\$ 50,000	Yes	Various	Yes	\$ 28.85	\$ 1,443	
Gates (10)	Replacement of Failed Gate Valves				Future Financing Petition	\$ 40,000	Yes	Various	Yes	\$ 28.85	\$ 1,154	
Radios (2750)	Replace out of warrantee failed radio meter readers				Future Financing Petition	\$ 275,000	Yes	Various	Yes	\$ 28.85	\$ 7,934	
Meters (Growth) 5/8"-2" - Core & CWS (480)	Meters (Growth) 5/8"-2" - Core & CWS (480)				Future Financing Petition	\$ 48,000	Yes	Various	Yes	\$ 28.85	\$ 1,385	
Meters 5/8"-6" Meter Exchange - Core & CWS (1000)	Meters 5/8"-6" Lead Meter Exchange - Core & CWS (1000)				Future Financing Petition	\$ 100,000	Yes	Various	Yes	\$ 28.85	\$ 2,885	
New Utility Vehicle (2)	New Utility Vehicles to replace existing high mileage/maintenance vehicles				Future Financing Petition	\$ 130,000	Yes	Merrimack	No	\$ 28.92	\$ -	
New Utility Van (2)	New Utility Vans to replace existing high mileage/maintenance vans				Future Financing Petition	\$ 70,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade				Future Financing Petition	\$ 22,000	Yes	Nashua	Yes	\$ 27.81	\$ 612	
New Vac/Valve Trailer	Replacement of 10yr old Vac for safety & Maintenance Reasons				Future Financing Petition	\$ 70,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Residual paving from prior year main replacement	Residual paving from prior year main replacement				Future Financing Petition	\$ 653,350	Yes	Nashua	Yes	\$ 27.81	\$ 18,170	
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL				Future Financing Petition	\$ 210,650	Yes	Nashua	Yes	\$ 27.81	\$ 5,858	
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL				Future Financing Petition	\$ 362,450	Yes	Nashua	Yes	\$ 27.81	\$ 10,080	
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL				Future Financing Petition	\$ 80,300	Yes	Nashua	Yes	\$ 27.81	\$ 2,233	
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL				Future Financing Petition	\$ 104,720	Yes	Nashua	Yes	\$ 27.81	\$ 2,912	
St Lazare Street	Replace 415 LF of 2 inch CI with 4 inch DIPCL				Future Financing Petition	\$ 100,980	Yes	Nashua	Yes	\$ 27.81	\$ 2,808	
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL				Future Financing Petition	\$ 48,730	Yes	Nashua	Yes	\$ 27.81	\$ 1,355	
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL				Future Financing Petition	\$ 96,140	Yes	Nashua	Yes	\$ 27.81	\$ 2,674	
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL				Future Financing Petition	\$ 136,620	Yes	Nashua	Yes	\$ 27.81	\$ 3,799	
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL				Future Financing Petition	\$ 112,530	Yes	Nashua	Yes	\$ 27.81	\$ 3,129	
Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL				Future Financing Petition	\$ 1,320,000	Yes	Nashua	Yes	\$ 27.81	\$ 36,709	
City Sewer Projects	Replace CI with DICLP				Future Financing Petition	\$ 550,000	Yes	Nashua	Yes	\$ 27.81	\$ 15,296	
Sawyer Street	Replace 1600 LF of 6 inch CI with 12 inch DIPCL				Future Financing Petition	\$ 528,000	Yes	Nashua	Yes	\$ 27.81	\$ 14,684	
Woodward Street	Replace 360 LF 8 inch CI with 470 LF 8 inch DIPCL				Future Financing Petition	\$ 155,100	Yes	Nashua	Yes	\$ 27.81	\$ 4,313	
Blosson Street	Replace 2400 LF of 6 inch CI and 8 inch CI with 2400 LF of 8 inch DIPCL				Future Financing Petition	\$ 792,000	Yes	Nashua	Yes	\$ 27.81	\$ 22,026	
Linwood Street	Replace 960 LF of 6 inch CI with 8 inch DIPCL				Future Financing Petition	\$ 316,800	Yes	Nashua	Yes	\$ 27.81	\$ 8,810	
Balcom Street	Replace 1240 LF 6 inch CI with 1240 LF 8 inch DIPCL				Future Financing Petition	\$ 409,200	Yes	Nashua	Yes	\$ 27.81	\$ 11,380	
Euclid Avenue	Replace 425 LF 6 inch CI with 425LF 8 inch DIPCL				Future Financing Petition	\$ 140,250	Yes	Nashua	Yes	\$ 27.81	\$ 3,900	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL				Future Financing Petition	\$ 264,000	Yes	Nashua	Yes	\$ 27.81	\$ 7,342	
Sargent Street	Replace 1900 LF 6 inch CI with 1900 LF 16 inch DIPCL				Future Financing Petition	\$ 627,000	Yes	Nashua	Yes	\$ 27.81	\$ 17,437	
Courtland Street	Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL				Future Financing Petition	\$ 386,100	Yes	Nashua	Yes	\$ 27.81	\$ 10,737	
Replace Engineering Pickup	Replace Engineering Pickup with > 150,000 Miles				Future Financing Petition	\$ 36,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Replace Engineering SUV	Replace Engineering SUV with > 150,000 Miles				Future Financing Petition	\$ 30,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Milford Booster Station	Replace/Relocate/Upgrade the Milford Booster Station (>2MGD)				Future Financing Petition	\$ 660,000	Yes	Amherst	Yes	\$ 28.85	\$ 19,041	
Investment in developer installed services at 1xannual revenue	Per tariff				Future Financing Petition	\$ 60,000	Yes	Various	Yes	\$ 28.85	\$ 1,731	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild				Future Financing Petition	\$ 55,000	Yes	Various	Yes	\$ 28.85	\$ 1,587	
Well Pump replacements	Well Pump replacements				Future Financing Petition	\$ 18,750	Yes	Various	Yes	\$ 28.85	\$ 541	
Chemical Feed pump replacements	Chemical Feed pump replacements				Future Financing Petition	\$ 15,000	Yes	Various	Yes	\$ 28.85	\$ 433	
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS				Future Financing Petition	\$ 15,000	Yes	Various	Yes	\$ 28.85	\$ 433	
Misc. Structural Improvements	Misc. Structural Improvements				Future Financing Petition	\$ 20,000	Yes	Various	Yes	\$ 28.85	\$ 577	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased				Future Financing Petition	\$ 20,000	Yes	Various	Yes	\$ 28.85	\$ 577	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical				Future Financing Petition	\$ 30,000	Yes	Various	Yes	\$ 28.85	\$ 866	
Well Rehabilitation	Well Rehabilitation				Future Financing Petition	\$ 50,000	Yes	Various	Yes	\$ 28.85	\$ 1,443	
WTP Structural/HVAC	WTP Structural/HVAC				Future Financing Petition	\$ 10,000	Yes	Nashua	Yes	\$ 27.81	\$ 278	
Purchase new lab equipment	Purchase new lab equipment				Future Financing Petition	\$ 20,000	Yes	Nashua	No	\$ 27.81	\$ -	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects				Future Financing Petition	\$ 10,000	Yes	Various	Yes	\$ 28.85	\$ 289	
Replace Vehicle	Replace Vehicle				Future Financing Petition	\$ 65,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle				Future Financing Petition	\$ 65,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle				Future Financing Petition	\$ 40,000	Yes	Nashua	No	\$ 27.81	\$ -	
Replace Vehicle	Replace Vehicle				Future Financing Petition	\$ 40,000	Yes	Nashua	No	\$ 27.81	\$ -	
Carbon Media changeout - filters 5 & 5	Carbon Media changeout - filters 5 & 5				Future Financing Petition	\$ 525,000	Yes	Nashua	Yes	\$ 27.81	\$ 14,600	
Various projects	Various projects				Future Financing Petition	\$ 300,000	Yes	Merrimack	No	\$ 28.85	\$ -	
Replacement of CMMS System (Synergen)	Replacement of CMMS System (Synergen)				Future Financing Petition	\$ 1,000,000	Yes	Merrimack	No	\$ 28.85	\$ -	
Pennichuck Water Works Projected 2021 Total Capital Expenditure Budget -						\$ 11,422,670		Projected Property Tax Expense associated		\$ 267,440		

Total Projected PWW QCPAC Capex for 2021 - \$ 11,422,670

1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000

Pennichuck Water Works
Accrued Liabilities - Retainage
 Account # 241350-2000-001

<u>Accrued Liabilities - Retainage</u>	<u>Balance</u>	<u>January-18</u>	<u>February-18</u>	<u>March-18</u>	<u>April-18</u>	<u>May-18</u>	<u>June-18</u>	<u>July-18</u>	<u>August-18</u>	<u>September-18</u>	<u>October-18</u>	<u>November-18</u>	<u>December-18</u>	<u>Balance</u>
2018 Main St Area Improvement #s 1806801/1806802/1806803/1806804/1806435/ 1806794/1806795/1806796/1806797/1806798/ 1806799/1606835	-	-	-	-	-	-	-	(20,420.50)	(25,173.63)	-	(7,475.46)	(18,821.11)	40,329.97	(31,560.73)
2018 Misc Water Main Improvement #s 1806433/1806828/1806829/180630/180631/ 1806836/1813532	-	-	-	-	-	-	-	-	(17,779.21)	(25,885.53)	-	(19,591.54)	(10,501.99)	(73,758.27)
N. Granese & Sons Bedford Water Expansion PWW #1800734	-	-	-	-	-	-	-	-	-	(13,038.50)	(9,790.00)	-	-	(22,828.50)
NE Earth Mechanics Shakespeare HP System Expansion #1813926	-	-	-	-	-	-	-	-	-	-	(19,289.07)	-	(402.00)	(19,691.07)
RWC Enterprises Ferryalls Ct #1825319	-	-	-	-	-	-	-	-	-	-	(3,018.00)	-	(6,149.45)	(9,167.45)
Kinsley St #1825911	-	-	-	-	-	-	-	-	-	-	(6,625.00)	-	-	(6,625.00)
W. F. Grace Marshall St. Water Main #1813935	-	-	-	-	-	-	-	(2,839.05)	-	(17,664.10)	-	(13,112.55)	-	(33,615.70)
TOTAL	-	-	-	-	-	-	-	(23,259.55)	(42,952.84)	(56,588.13)	(46,197.53)	(51,525.20)	23,276.53	(197,246.72)