

Pennichuck Water Works, Inc.  
DW 18-022  
Schedule A - Modified Revenue Requirement per DW-16-806  
Computation of QCPAC Surcharge  
1/30/2018  
Updated on 3/28/2018 based on actual cost of Bonds sold to refund 2017 Capex.  
Updated 7/13/2018 to reflect corrections associated with Staff Data Requests  
Updated 11/10/2018 to reflect 3rd Quarter update for projected 2018 Capex Expenditures

Exhibit 1

Schedule A-Modified

	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)	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
City Bond Fixed Revenue Requirement (CBFRR)	\$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	\$ 178,909	\$ 16,742,999	\$ 301,601	\$ 17,044,601	\$ 235,407	\$ 17,280,008
Annual Principal and Interest Payments	\$6,218,648 (2)	\$365,418 (5)(10)	\$ 6,584,066	\$474,035	\$ 7,058,101	\$798,432	\$ 7,856,532	\$600,774	\$ 8,457,306
Principal and Interest Coverage Requirement	1.10 (3)		1.10		1.10		1.10		1.10
Principal and Interest Revenue Requirement	\$ 6,840,513		\$ 7,242,472		\$ 7,763,911		\$ 8,642,185		\$ 9,303,037
Proposed Revenue Requirement	\$ 31,011,556		\$ 31,535,594		\$ 32,235,942		\$ 33,415,818		\$ 34,312,077
Current Water Revenues excluding CBFRR	\$20,694,038		\$ 23,282,524		\$ 23,806,562		\$ 24,506,910		\$ 25,686,786
Add: City Bond Fixed Revenue Requirement	\$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		\$ 32,235,942		\$ 33,415,818
Percent QCPAC Surcharge (9)			1.69%		2.22%		3.66%		2.68%
					3.95%		7.75%		10.64%

- Notes:
- (1) 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
- (2) Annual Principal and interest payments for PWW debt associated with all plant in service as approved in DW16-806
- (3) Principal and interest coverage of 1.10 is as approved in DW16-806
- (4) 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.
- (5) 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
- (7) QCPAC operating expenses are based on the property taxes for plant added during the year
- (8) QCPAC Principal and Interest expenses are based on 30 year bond with interest rate of 5.5% (Bond rate updated 11/10/2018)
- (9) QCPAC percent revenue surcharges based on increase in revenues from the previous year, inclusive of QCPAC surcharges.
- (10) 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.
- (11) 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 |
|-------------------------|-----------|--------------------------|--------------|----------------------|---------------|

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Funded in DW16-806 Step	Estimated Project Cost as of 1/18/2017	Estimated Project Cost as of 11/15/2017	Final Unaudited Project Costs at of 1/19/2018	Community	Taxable	Tax Rate (1)	QCPAC Eligible Annual Tax Expense	Explanation for Change/Addition/Deletion since 1/18/2017
Heavy Dump Truck Replacement (#12)	Heavy Dump Truck Replacement (#12)	1702309	DW14-130	25,734	11/7/2014	Yes	\$ 130,000	Paid 2014 Bond		Merrimack			\$ -	P&I and property taxes recovered in DW16-806 Step Increase
Replace Aging Services	9 Renewed Services with 2014 Bond Funds	Monthly 21, 22, 23	DW14-130	25,735	11/7/2014	Partial	\$ 80,000	Paid 2014 Bond		Nashua			\$ -	P&I and property taxes recovered in DW16-806 Step Increase
	23 Renewed Services with 2018 Bond Funds		DW17-183	26,101	2/2/2018	No		\$ 40,000	\$ 100,454	Nashua	Yes	\$ 29.82	\$ 2,996	P&I and property taxes to be recovered in 2018 QCPAC
Replace Aging Hydrants	3 Hydrants replaced with 2014 Bond Funds	Monthly 31	DW14-130	25,735	11/7/2014	Partial	\$ 42,000	Paid 2014 Bond		Nashua			\$ -	P&I and property taxes recovered in DW16-806 Step Increase
	5 Hydrants replaced with 2018 Bond Funds		DW17-183	26,101	2/2/2018	No		\$ 11,000	\$ 18,643	Nashua	Yes	\$ 29.82	\$ 556	P&I and property taxes to be recovered in 2018 QCPAC
Replace Aging Valves	3 Valve Replacements	Monthly 12, 13	DW17-183	26,101	2/2/2018	No		\$ 50,000	\$ 53,122	Nashua	Yes	\$ 29.82	\$ 1,584	Based on final valve replacement expenditures in 2017.
New Services	2 New Services for Single Family Residential, owner build, per Tariff	Monthly 20	DW14-130	25,735	11/7/2014	Partial	\$ -	Paid 2014 Bond		Nashua			\$ -	P&I and property taxes recovered in DW16-806 Step Increase
	5 New Services for Single Family Residential, owner build, per Tariff		DW17-183	26,101	2/2/2018	No		\$ 34,537	\$ 29,648	Nashua	Yes	\$ 29.82	\$ 884	P&I and property taxes to be recovered in 2018 QCPAC
Replace Leaded Brass Meters with Lead free brass meters	410 New Meters for Lead Meter exchanges - 5/8"-6"	Monthly 50	DW14-130	25,735	11/7/2014	Partial	\$ 832,000	Paid 2014 Bond		Nashua			\$ -	P&I and property taxes recovered in DW16-806 Step Increase
	1,410 New Meters for Lead Meter exchanges - 5/8"-6" (NEED ACTUAL 332		DW17-183	26,101	2/2/2018	No		\$ 247,266	\$ 267,950	Nashua	Yes	\$ 29.82	\$ 7,990	P&I and property taxes to be recovered in 2018 QCPAC
Replace Aging meter reading Radios	Replace 99 failed radios	Monthly 54	DW14-130	25,735	11/7/2014	Partial	\$ 28,000	Paid 2014 Bond		Nashua			\$ -	P&I and property taxes recovered in DW16-806 Step Increase
	Replace 238 failed radios		DW17-183	26,101	2/2/2018	Remainder		\$ 22,729	\$ 22,802	Nashua	Yes	\$ 29.82	\$ 680	P&I and property taxes to be recovered in 2018 QCPAC
Ferromagnetic Pipe locators (3)	Ferromagnetic Pipe locators (3)		DW17-183	26,101	2/2/2018	No	\$ 10,500	\$ 10,500		Merrimack			\$ -	None acquired
Heavy Dump Truck Replacement (#86)	Heavy Dump Truck Replacement (#86)	1708349	DW17-183	26,101	2/2/2018	No	\$ 100,000	\$ 100,000	\$ 102,176	Merrimack	No		\$ -	
Service Truck replacement (#47)	Service Truck replacement (#47)	1715542	DW17-183	26,101	2/2/2018	No	\$ 60,000	\$ 38,950	\$ 47,889	Merrimack	No		\$ -	
Replacement of Foreman truck	Replacement of Foreman truck						\$ 90,000	\$ 75,000	\$ -	Merrimack			\$ -	
Replace Dump Truck Body	#312 - Replace Dump Truck Body	1720997				Deferred. No Bond sought. No QCPAC sought.								Deferred until 2018
Medium Duty Dump Truck Replacement (#71)	Medium Duty Dump Truck Replacement (#71)	1708350	DW17-183	26,101	2/2/2018	No	\$ 70,000	\$ 70,000	\$ 90,160	Merrimack	No		\$ -	Project added at end of year using existing truck chassis for new dump body.
Replace Truck #70	Replace Truck #70	1707209	DW17-183	26,101	2/2/2018	No	\$ -	\$ 32,034	\$ 32,034	Merrimack	No			Truck replaced when transmission failed rather than repair transmission on a 10 year old truck
Replace Truck #58	Replace 2006 Truck with 104,000 miles	1702097						\$ 6,242		Merrimack	No			
20 Ton Tag Trailer replacement	20 Ton Tag Trailer replacement					Deferred. No Bond sought. No QCPAC sought.	\$ 20,000	\$ -						Deferred
Variable Message Signs - 2	Customer Notification	1702307	DW14-130	25,734	11/7/2014	Yes	\$ 30,000	Paid 2014 Bond						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	Paid 2014 Bond						P&I and property taxes recovered in DW16-806 Step Increase
Pipe Saws (5)	Pipe Saws (5)	1800440	DW17-183	26,101	2/2/2018	No	\$ 20,000	\$ -	\$ 9,384	Merrimack	No			
Metal Detectors (6)	Metal Detectors (6)	1708348	DW17-183	26,101	2/2/2018	No	\$ 7,000	\$ 6,360	\$ 6,360	Merrimack	No			
Replacement Excavator	Replacement Excavator	1702312	DW17-183	26,101	2/2/2018	No	\$ 75,000	\$ 69,554	\$ 69,554	Merrimack	No			
Complete construction of 16 DW Highway	Final billing for the completion of work by contractor at 16 DW Highway	1701990	DW17-183	26,101	2/2/2018	No	\$ -	\$ 67,050	\$ 65,140	Merrimack	Yes	\$ 28.17	\$ 1,835	Billing from final work on 16 DW not carried over in original budget
MRX meter reading device	MRX meter reading device	1708487	DW17-183	26,101	2/2/2018	No	\$ -	\$ 8,190	\$ 8,190	Various	No			Existing 8 year old meter reading device failed
GPS Units	Trimble Devices	1713734						\$ 21,287		Merrimack	No			Devices purchased early to support field deployment of GIS.
Raw Water Transmission Main project	Finalization of 2016 project	1601365, 1701991	DW15-046	25,774	4/13/2015	Yes	\$ -	Paid for by SRF	\$ 176,829	Merrimack	Yes	\$ 28.17	\$ 4,981	Charges are for Internal engineering, OH, Union Labor, truck and AFDUC. These expenses are not eligible for SRF funding.
Nashua & Amherst Paving	Final paving associated with watermain projects					No	\$ 1,100,000						\$ -	Budget Placeholder
Nashua & Amherst Paving	Park Street Water Main Replacement project paving	1701989	DW17-183	26,101	2/2/2018	No		\$ 4,908	\$ 4,908	Nashua	Yes	\$ 29.82	\$ 146	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Mulberry Street Water Main Replacement project paving	1701988	DW17-183	26,101	2/2/2018	No		\$ 6,840	\$ 6,840	Nashua	Yes	\$ 29.82	\$ 204	Budgeted 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	1718685, 1718684	DW17-183	26,101	2/2/2018	No		\$ 120,000	\$ 20,040	Nashua	Yes	\$ 29.82	\$ 598	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Chestnut Street Phase I Water Main Replacement project paving	1703643	DW17-183	26,101	2/2/2018	No		\$ 65,780	\$ 131,689	Nashua	Yes	\$ 29.82	\$ 3,927	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Scripture Street Water Main Replacement project paving	1703642	DW17-183	26,101	2/2/2018	No		\$ 11,200	\$ 2,466	Nashua	Yes	\$ 29.82	\$ 74	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Gorman Street Water Main Replacement project paving	1718679	DW17-183	26,101	2/2/2018	No		\$ 400		Nashua	Yes	\$ 29.82	\$ 12	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Water Street Water Main Replacement project paving							\$ 44,561						Paving deferred at City request
Nashua & Amherst Paving	Brook Street Water Main Replacement project paving	1700310	DW17-183	26,101	2/2/2018	No		\$ 9,844		Nashua	Yes	\$ 29.82	\$ 294	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Ash Street Water Main Replacement project paving	1700315	DW17-183	26,101	2/2/2018	No		\$ 22,678		Nashua	Yes	\$ 29.82	\$ 676	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Worcester Street Area Water Main Replacement project paving	1718680	DW17-183	26,101	2/2/2018	No		\$ 3,020		Nashua	Yes	\$ 29.82	\$ 90	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Lovell Street Water Main Replacement project paving	1703644	DW17-183	26,101	2/2/2018	No		\$ 82,060		Nashua	Yes	\$ 29.82	\$ 2,447	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Towells Street Water Main Replacement project paving	1703639	DW17-183	26,101	2/2/2018	No		\$ 17,233		Nashua	Yes	\$ 29.82	\$ 514	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Howard Street Water Main Replacement project paving	1718682	DW17-183	26,101	2/2/2018	No		\$ 2,800		Nashua	Yes	\$ 29.82	\$ 83	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Hoits Water Main Replacement project paving	1718683	DW17-183	26,101	2/2/2018	No		\$ 1,000		Nashua	Yes	\$ 29.82	\$ 30	Budgeted under Final Paving associated with water main replacement projects
Nashua & Amherst Paving	Shedds Ave. Water Main Replacement project paving	1718681	DW17-183	26,101	2/2/2018	No		\$ 2,000		Nashua	Yes	\$ 29.82	\$ 60	Budgeted 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	1601318, 1702928	DW16-236	25,887	42486	Partial		Paid for by SRF	\$ 923,785	Nashua				Charges are for Internal engineering, OH, Union Labor, truck and AFDUC. These expenses are not eligible for SRF funding. \$767,357 in 2017 construction costs were financed with SRF loan funds. The principal and interest associated with this loan amount must be recovered as part of the 2018 QCPAC surcharge.
Amherst Street Project - Berkshire Street water main replacement	Replace xxx LF of s"/s" Steel/Unlined CI Water main on Berkshire Street	1601320, 1702931	DW16-236	25,887	42486	Yes		Paid for by SRF	\$ 6,058	Nashua	No			
Amherst Street Project - Terrace Ave. water main replacement	Replace 280 LF of 2"/4" Steel/Unlined CI Water main on Terrace Ave.	1601321, 1702932	DW16-236	25,887	42486	Yes	\$ 75,000	\$ 1,763		Nashua				
Amherst Street Project - Bruce Street water main replacement	Replace 260 LF of 6" Unlined CI Water main on Bruce Street	1601319, 1702930	DW16-236	25,887	42486	Yes	\$ 75,000	\$ 4,183		Nashua				
Sweet Hill	New Supplemental Well required by NHDES	1503914, 1602428, 1701490	DW17-183	26,101	2/2/2018	No	\$ 70,000	\$ 70,000	\$ 163,831	Plaistow	Yes	\$ 28.39	\$ 4,651	Project began in 2015. Project required by NHDES to address shortage of supply.
Pennichuck Bog - Educational Program Accessway	Construct Nature Walk around Pennichuck Bog					Deferred. No Bond sought. No QCPAC sought.	\$ 38,000	\$ -						Deferred
Gilman Street	Replace 8 & 6 in CI with 1225 LF of 8 inch CLDI					Deferred. No Bond sought. No QCPAC sought.	\$ 425,000	\$ -						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	\$ -						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	\$ -						Project deferred indefinitely.
Snow Station Upgrade - Add 3rd pump	Increase pumping capacity to meet existing demands and contractual obligations	1702918	DW17-183	26,101	2/2/2018	No	\$ 125,000	\$ 13,323	\$ 13,323	Nashua	Yes	\$ 29.82	\$ 397	Analysis showed that rebuilding one pump would provide initial capacity required.
City Sewer Projects - TBD	Aging infrastructure replacement in coordination with sewer replacement						\$ 400,000							
Warren Street	Replaced 300 LF of 4 inch CI with 8 in DIPCL	1702870	DW17-183	26,101	2/2/2018	No		\$ 60,000	\$ 121,151	Nashua	Yes	\$ 29.82	\$ 3,613	\$20,000 for final paving in 2018
Lowell Street	Replaced 425 LF of 6 inch CI with 6 in DIPCL	1702874	DW17-183	26,101	2/2/2018	No		\$ 60,000	\$ 99,065	Nashua	Yes	\$ 29.82	\$ 2,954	\$38,500 for final paving in slate for 2018 was completed in 2017.
Green Street	Replaced 330 LF of 4 inch CI with 8 in DIPCL	1702872	DW17-183	26,101	2/2/2018	No		\$ 27,000	\$ 27,720	Nashua	Yes	\$ 29.82	\$ 827	Including final paving
Beard Street	Replaced 350 LF of 8 inch CI with 8 inch DIPCL	1702873	DW17-183	26,101	2/2/2018	No		\$ 75,000	\$ 78,412	Nashua	Yes	\$ 29.82	\$ 2,338	Including paving
Lemon Street	Replaced 320 LF of 2 inch CI with 4 in PVC	1702875	DW17-183	26,101	2/2/2018	No		\$ 30,250	\$ 73,389	Nashua	Yes	\$ 29.82	\$ 2,188	\$17,000 for final paving in 2018
Proctor Street	Replaced 130 LF of 2 & 1.5 inch CI with 4 inch PVC	1707322	DW17-183	26,101	2/2/2018	No		\$ 51,000	\$ 63,829	Nashua	Yes	\$ 29.82	\$ 1,903	Excludes final paving
Gillis Street	Replaced 1,290 LF of 4 inch CI with 8 inch DIPCL	1617684, 1703641	DW17-183	26,101	2/2/2018	No		\$ 71,987		Nashua	Yes	\$ 29.82	\$ 2,147	Project missed in Nov 2017 filing
Temple Street	Replaced 375 LF of 8 inch CI with 6 inch HDPE and 8 inch DIPCL	1600381, 1703640	DW17-183	26,101	2/2/2018	No		\$ 151,093	\$ 148,873	Nashua	Yes	\$ 29.82	\$ 4,439	Including final paving
Mulvaney Street	Replaced 280 LF of 2 inch CI with 4 inch PVC	1707323	DW17-183	26,101	2/2/2018	No		\$ 106,300	\$ 88,957	Nashua	Yes	\$ 29.82	\$ 2,653	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	\$ -						Deferred until 2018
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	\$ -						Deferred until 2018
Water main looping	Old Nashua Rd. RR Crossing @ Route 101A	1703646	DW17-183	26,101	2/2/2018	No			\$ 8,334	Amherst	Yes	\$ 30.30	\$ 253	
2017 Main Street Area Water Main Replacement - Phase I	Fowell - Zellwood - Pratt replace 1720 lf of 6 in CI with 8 in CLDI					Deferred. No Bond sought. No QCPAC sought.	\$ 400,000	\$ -						Part of Project deferred until 2018
Buchanan Avenue	Replaced 540 LF of 6 inch CI with 8 inch DIPCL	1702843	DW17-183	26,101	2/2/2018	No		\$ 84,752	\$ 96,013	Nashua	Yes	\$ 29.82	\$ 2,863	Individual Streets Part of 2017 Main Street Area Water Main Replacement Project
Circle Ave. - Main Replacement	Replaced 400 LF of 2 inch Steel with 4 inch PVC	1715613	DW17-183	26,101	2/2/2018	No			\$ 21,195	Nashua	Yes	\$ 29.82	\$ 632	
Fowell Street	Replaced 900 LF of 6 inch CI with 175 LF of 4 inch and 725 LF of 8 inch DIPCL	1702844	DW17-183	26,101	2/2/2018	No			\$ 192,179	Nashua	Yes	\$ 29.82	\$ 5,731	Individual Streets Part of 2017 Main Street Area Water Main Replacement Project
Zellwood Avenue	Replaced 375 LF of 6 inch CI with 4 in PVC	1702845	DW17-183	26,101	2/2/2018	No		\$ 51,142		Nashua	Yes	\$ 29.82	\$ 1,525	Individual Streets Part of 2017 Main Street Area Water Main Replacement Project
Pratt Street	Replaced 710 LF of 6 inch CI with 12 inch DIPCL	1702846	DW17-183	26,101	2/2/2018	No		\$ 146,106		Nashua	Yes	\$ 29.82	\$ 4,357	Individual Streets Part of 2017 Main Street Area Water Main Replacement Project
2017 Main Street Area Water Main Replacement - Phase II	Aging infrastructure replacement						\$ 320,000							
Lincoln Street	Replaced 790 LF of 6 inch CI with 8 in DIPCL	1702841	DW17-183	26,101	2/2/2018			\$ 152,407	\$ 168,144	Nashua	Yes	\$ 29.82	\$ 5,014	Individual Streets Part of 2017 Main Street Area Water Main Replacement Project
Nutt Street	Replaced 100 LF of 1 inch and 500 LF of 4 inch CI with 100 LF of 4 inch and 500 LF of 8 inch DIPCL	1702842	DW17-183	26,101	2/2/2018			\$ 120,440	\$ 109,004	Nashua	Yes	\$ 29.82	\$ 3,251	Individual Streets Part of 2017 Main Street Area Water Main Replacement Project
Kinsley Street	Replace unlined cast iron leads to side streets ahead of City paving					Deferred. No Bond sought. No QCPAC sought.	\$ 175,000	\$ -						Project deferred to 2017
Factory Street	Replace 12 & 8 in CI with 640 lf of 16 in CLDI 640 lf					Deferred. No Bond sought. No QCPAC sought.	\$ 250,00							

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Funded in DW16-806 Step	Estimated Project Cost as of 1/18/2017	Estimated Project Cost as of 11/15/2017	Final Unaudited Project Costs at of 1/19/2018	Community	Taxable	Tax Rate (1)	QCPAC Eligible Annual Tax Expense	Explanation for Change/Addition/Dcletion since 1/18/2017
Route 101 Widening, Bedford	Relocate Service to 3 Nashua Road	1702840	DW17-183	26,101	2/2/2018	No		\$ 67,400	\$ 116,205	Bedford	Yes	\$ 23.19	\$ 2,695	NHDOT project that was added in Spring of 2017. Partial reimbursement from NHDOT of \$26,010.89
Route 122 @ Nathan Lord Lane Water Main Relocation	Water Main Relocation to accommodate Town of Amherst Storm Drain installation	1715666	DW17-183	26,101	2/2/2018	No	\$ -	\$ 54,630	\$ 59,558	Amherst	Yes	\$ 30.30	\$ 1,805	Town of Amherst Storm Drain project added in Fall of 2017
Howard St. Emergency Main Replacement -	Howard St. Emergency Main Replacement -	1600371, 1601379							\$ 106,838	Nashua	Yes	\$ 29.82	\$ 3,186	Emergency project to replace failed 2" steel water main late in 2017.
Trimble Devices - Used for field locating Assets via GIS program	Upgrade to Ipad device driven units	1703027	DW17-183	26,101	2/2/2018	No	\$ 72,000	\$ 68,623	\$ 47,336	Merrimack	No			
Engineering Replacement Vehicles (2)	Replace 2 Vehicles	1702831, 1702832	DW14-130	25,734	11/7/2014	Yes	\$ 64,000	Pd 2014 Bonds	\$ -	Merrimack	No			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	\$ -						Project underway, will not be used and useful in 2017
PWW-PEU Interconnection - DW Highway to River	DW Highway to Merrimack River Booster station¹					Deferred. No Bond sought. No QCPAC sought.	\$ 311,500	\$ -						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	\$ -						Deferred, staff time not available to complete in 2017
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements		DW14-130	25,735	11/7/2014	Partial		Pd 2014 Bonds		Derry	Yes	\$ 33.23	\$ -	P&I and property taxes recovered in DW16-806 Step Increase
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements	Monthly 60, 61, 62, 63	DW17-183	26,101	2/2/2018	No	\$ 60,000	\$ 38,000	\$ 41,386	Derry	Yes	\$ 33.23	\$ 1,375	
Booster/Well/Chem Feed pump replacements	Replace VFD on Twin Ridge Well	1701888	DW17-183	26,101	2/2/2018	No		\$ 2,089	\$ 2,089	Plaistow	Yes	\$ 28.39	\$ 59	Budgetted under Booster/Well/Chem Feed pump replacement
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS					Deferred. No Bond sought. No QCPAC sought.	\$ 15,000	\$ -						Budget place holder. No treatment system installs/replacement YTD
Misc. Structural Improvements	Misc. Structural Improvements					Deferred. No Bond sought. No QCPAC sought.	\$ 20,000	\$ -						Budget place holder. No structural improvements YTD
Harris Dam Spillway Reconstruction	Complete Harris Dam Spillway Reconstruction	1701987							\$ 6,018	Nashua	Yes	\$ 29.82	\$ 179	
Replace Vehicle #62	Replace 11 year old truck with 107,863 miles		DW17-183	26,101	2/2/2018	No	\$ 60,000	\$ 45,000						A new vehicle was purchased and this vehicle was retained and kept in service. #99 was retired.
Replace Vehicle #49	Replace 7 year old truck with 104,875 miles	1800462	DW17-183	26,101	2/2/2018	No	\$ 35,000	\$ 35,000	\$ 27,323	Nashua	No			Retired #49
Replace vehicle #204	Replace 6 year old truck with 175,260 miles	1800481	DW17-183	26,101	2/2/2018	No	\$ 60,000	\$ 45,000	\$ 42,678	Nashua	No			Change from beginning of budget year as to type of vehicle being replaced. #204 retired.
Replace Vehicle #63	Replace 7 year old truck with 110,249 miles		DW17-183	26,101	2/2/2018	No	\$ 35,000	\$ 35,000						Retired #63
Replace Vehicle #44	Replace 8 year old truck with over 130,000 miles	1800479						\$ 42,678		Nashua	No			Retired #44
New Vehicle #119	New Water Supply Vehicle, no replacement	1704173	DW17-183	26,101	2/2/2018	No	\$ -	\$ 63,038	\$ 62,282	Nashua	No			No vehicle retired.
Replace Vehicle #99	Replace 11 year old truck with over 140,000 miles	1800480	DW17-183	26,101	2/2/2018	No			\$ 27,323	Nashua	No			Retired #99
Replace Vehicle #46	Add utility body to vehicle #46	1703002	DW17-183	26,101	2/2/2018	No			\$ 2,071	Nashua	No			No vehicle retired.
Install overhead crane and door-WTP process area	Install overhead crane and door-WTP process area	1701887, 1719861	DW17-183	26,101	2/2/2018	No	\$ 75,000	\$ 75,000	\$ 45,731	Nashua	Yes	\$ 29.82	\$ 1,364	Design cost for WTP crane and door. Door is used and useful.
Merrimack River Station pump/motor rebuild	Merrimack River Station pump/motor rebuild		DW17-183	26,101	2/2/2018	No	\$ 75,000	\$ 25,000					\$ -	Project deferred until 2018
Misc. equipment purchases	WTP misc. equipment purchases						\$ 25,000	\$ -						
Misc. equipment purchases	Purchase New Electric Multi-Meter	1715547	DW17-183	26,101	2/2/2018	No		\$ 1,500	\$ 1,500	Nashua	No		\$ -	Budgetted under WTP Misc equipmnet purchased
THM precursor control at Bon Terrain Tank	Install mixer in Bon Terrain Tank	1703024	DW17-183	26,101	2/2/2018	No		\$ 2,600	\$ 2,600	Amherst	Yes	\$ 30.30	\$ 79	Budgetted under WTP Misc equipmnet purchased
Replace VFD on Sludge Chopper Pump at WTP	Replace VFD on Sludge Chopper Pump at WTP	1707190	DW17-183	26,101	2/2/2018	No		\$ 3,503	\$ 3,503	Nashua	Yes	\$ 29.82	\$ 104	Budgetted under WTP Misc equipmnet purchased
WTP - Replace 30" IP Discharge Meter	WTP - Replace 30" IP Discharge Meter	1701885	DW17-183	26,101	2/2/2018	No		\$ 17,177	\$ 17,177	Nashua	Yes	\$ 29.82	\$ 512	Budgetted under WTP Misc equipmnet purchased
Purchase new lab equipment	Purchase new lab equipment					Deferred. No Bond sought. No QCPAC sought.	\$ 15,000	\$ -						
Purchase new lab equipment	Hanna Tirator	1707187	DW17-183	26,101	2/2/2018	No		\$ 5,900	\$ 5,900	Nashua	No			Budgetted under Purchase new lab equipment
WTP structural/HVAC	Replaced Compressor on A/C Unit FWPS	1708347	DW17-183	26,101	2/2/2018	No	\$ 10,000	\$ 5,568	\$ 5,568	Nashua	Yes	\$ 29.82	\$ 166	
Misc Security upgrades for remote facilities	Misc. Fencing/Security Projects					Deferred. No Bond sought. No QCPAC sought.	\$ 25,000	\$ -						Budget place holder. No Misc. Fencing/Security Projects YTD
Complete Fencing around WTP for Security	Perimeter fencing at WTP	1706963	DW17-183	26,101	2/2/2018	No	\$ 80,000	\$ 5,588	\$ 5,588	Nashua	Yes	\$ 29.82	\$ 167	Main Gate opening mechanism replaced. Fencing deferred
Replace Clarifier (2)Vacuum Blowers and Actuators	Replace Clarifier (2)Vacuum Blowers and Actuators					Deferred. No Bond sought. No QCPAC sought.	\$ 25,000	\$ -						Deferred
Misc. SCADA Electrical upgrades	Misc. SCADA Electrical					Deferred. No Bond sought. No QCPAC sought.	\$ 30,000	\$ -						Budget Place Holder. See below for actual projects
Misc. SCADA Electrical upgrades	Valleyfield - Install Cellular Communication	1701886	DW17-183	26,101	2/2/2018	No	\$ -	\$ 5,000	\$ 3,249	Plaistow	Yes	\$ 28.39	\$ 92	Budgetted under Misc. SCADA Electrical upgrades
Misc. SCADA Electrical upgrades	Install Cellular Communication, Cabot Preserve	1716549	DW17-183	26,101	2/2/2018	No			\$ 2,642	Bedford	Yes	\$ 23.19	\$ 61	Project added to allow remote monitoring of water system
Hi-Lo Generator	Hi-Lo Generator	1701899	DW17-183	26,101	2/2/2018	No			\$ 47,332	Derry	Yes	\$ 33.23	\$ 1,573	Permanent standby generator added on site at this Community Water System.
Armory Street Booster Pump VFD replacements	Replace failed VFD's on Armory Street Booster Pumps	1719862	DW17-183	26,101	2/2/2018	No	\$ -	\$ 23,500	\$ -	Nashua	Yes	\$ 29.82	\$ -	Budgetted under Misc. SCADA Electrical upgrades
Misc. SCADA Electrical upgrades	Replace all SCADA Computers and Upgrade System	1701889	DW17-183	26,101	2/2/2018	No	\$ -	\$ 43,000	\$ 19,990	Nashua	Yes	\$ 29.82	\$ 596	Unbudgetted. Security upgrades required hardware replacement
Well Rehabilitations (3)	Well Rehabilitations					Deferred. No Bond sought. No QCPAC sought.	\$ 60,000	\$ -					\$ -	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	\$ -						Deferred
WTP - Replace storefront glass, renovate WTP reception	Replace storefront glass, renovate WTP reception					Deferred. No Bond sought. No QCPAC sought.	\$ 50,000	\$ -						Deferred
Office renovation-conference room	Office renovation-conference room					Deferred. No Bond sought. No QCPAC sought.	\$ 50,000	\$ -						Deferred
Water Supply - Watershed Public Education	Fertilization / Pesticide - Phase 1					Deferred. No Bond sought. No QCPAC sought.	\$ 20,000	\$ -						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	\$ -						Will not be completed until 2018
St. Joseph's Land Purchase	Watershed protection	1503675	DW17-183	26,101	2/2/2018	No			\$ 69,790	Nashua	Yes	\$ 29.82	\$ 2,081	Project started in 2015. Land purchased from local hospital. Land adjacent to Supply Pond.
Secure reception area	Office Security for Front Reception Desk	1708425	DW17-183	26,101	2/2/2018	No	\$ 10,000	\$ 20,990	\$ 18,824	Merrimack	No			Original estimate did not include bullet proof glass and other security features
Adjustable Desk Tops	Accommodate back issues	1713759	DW17-183	26,101	2/2/2018	No	\$ -	\$ 6,088	\$ 6,088	Merrimack	No			
Asset Management - Phase 3	Asset Management 2016 Carry over	1600061	DW17-183	26,101	2/2/2018	No	\$ 200,000	\$ 200,000	\$ 161,590	Merrimack	Yes	\$ 28.17	\$ 4,552	
Conversion to R.A.M. Fixed Assets carry-over	Conversion to R.A.M. Fixed Assets carry-over	1707349	DW17-183	26,101	2/2/2018	No	\$ 11,000	\$ 11,000	\$ 6,929	Merrimack	No	\$ -	\$ -	
Firewall	Firewall replacement	1702081	DW17-183	26,101	2/2/2018	No	\$ 50,000	\$ 36,426	\$ 28,228	Merrimack	No			
Asset Management - Phase 4	Continue progress on Asset Management implementation	1700300	DW17-183	26,101	2/2/2018	No	\$ 736,000	\$ 350,000	\$ 492,133	Various	Yes	\$ 28.85	\$ 14,198	Reduced level of work than budgetted due to staff time diverted to PFOA response
Click Mobile Upgrade	Upgrade ClickMobile to work on iPads	1707189	DW17-183	26,101	2/2/2018	No	\$ 150,000	\$ 5,400					\$ -	2016 Work completed. 2017 work deferred until 2018
Click Mobile Upgrade	Purchase iPADs for ClickMobile Platform	1702223	DW17-183	26,101	2/2/2018	No	\$ -	\$ 5,160	\$ 5,160	Various	Yes	\$ 28.85	\$ 149	Budgetted for under Upgrade ClickMobile to work on iPADs
Infoview upgrade	Upgrade Infoview to the latest version	1702224	DW17-183	26,101	2/2/2018	No	\$ 5,000	\$ 3,150	\$ 3,150	Various	Yes	\$ 28.85	\$ 91	
Exchange Upgrade	Upgrade Exchange to the latest version		DW17-183	26,101	2/2/2018	No	\$ 31,000	\$ 20,420					\$ -	Deferred
Retention Archive Solution	Infrastructure to Archive older stagnant files					Deferred. No Bond sought. No QCPAC sought.	\$ 80,000	\$ -						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	\$ -						Waiting for vender acceptance of software enhancements
Miscellaneous Software						Deferred. No Bond sought. No QCPAC sought.	\$ 15,000	\$ -						Budget place holder.
Miscellaneous Software	Upgrade Synergyn/WAM		DW17-183	26,101	2/2/2018	No	\$ -	\$ 10,386						Budgetted for under Misc. Software
Miscellaneous Software	Backflow Data Collection software	1707208	DW17-183	26,101	2/2/2018	No	\$ -	\$ 6,700	\$ 5,400	Merrimack	No			Budgetted for under Misc. Software
Miscellaneous Software	Munis - Enhancements - SDS Replacement	1502439	DW17-183	26,101	2/2/2018	No			\$ 18,700	Merrimack	No			Budgetted for under Misc. Software
Miscellaneous Software	PDF Converter Software	1614048	DW17-183	26,101	2/2/2018	No			\$ 3,994	Merrimack	No			Required to make website ADA compliant
Miscellaneous Hardware						Deferred. No Bond sought. No QCPAC sought.	\$ 18,000	\$ -						Budget place holder. No Misc. Hardware purchased YTD
Miscellaneous Hardware	LTO6 Tape Drive #2	1617689	DW17-183	26,101	2/2/2018	No			\$ 19,395	Merrimack	No			
Network Infrastructure	Replacement of virtual servers and network switch stack. Existing hardware no longer supported.	1716547	DW17-183	26,101	2/2/2018	No			\$ 113,424	Merrimack	No			
LIMS upgrade	Upgrade to Laboratory Information Systems software					Deferred. No Bond sought. No QCPAC sought.	\$ 11,000	\$ -						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	\$ -						Project cancelled for 2017
DigsSafe into Click	Track Dig safe work order time electronically					Deferred. No Bond sought. No QCPAC sought.	\$ 2,000	\$ -						Project cancelled for 2017
Website Upgrades & Updates	Update Website. Enhance customer useability	1704175	DW17-183	26,101	2/2/2018	No	\$ 36,000	\$ 21,700	\$ 13,250	Merrimack	No			
IT Security Project	ISO 27001 Equivalency Project	1707186	DW17-183	26,101	2/2/2018	No	\$ -	\$ 40,500	\$ 31,555	Merrimack	No			Evaluation of IT infrastructure for security
Physical Server for Autodesk Revit						Deferred. No Bond sought. No QCPAC sought.	\$ 8,000	\$ -					\$ -	Deferred
Physical Server for Pearl						Deferred. No Bond sought. No QCPAC sought.	\$ 12,000	\$ -					\$ -	Deferred
Investment in Developer Installed Services	One times revenue tariffed amount		DW14-130	25,735	11/7/2014	Partial	\$ -	Pd 2014 Bonds						P&I and property taxes recovered in DW16-806 Step Increase
Investment in Developer Installed Services	One times revenue tariffed amount		DW17-183	26,101	2/2/2018	No	\$ -	\$ 36,000	\$ 43,903	Various	Yes	\$ 28.85	\$ 1,267	Tariffed investment amount not in original capital budget

Total Projected 2017 PWW Capital Ex: \$ 9,729,000 \$ 4,163,760 \$ 6,058,766  
Amount to be funded with April 2018 Bond issue - \$ 5,291,409  
Amount to be funded with Amherst Street Project SRF loan - \$ 767,357

Projected Property Tax - \$ 122,079

2018 QCPAC Additions

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	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	Community	Taxable	Tax Rate (f)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 1/30/2018
Replace Forman Truck	Existing Truck has been a safety and maintenance problem	1708351 & 1813525	2019 Docket			\$ 90,000	\$ 97,685	\$ 120,756		Merrimack	No	\$ 28.17	\$ -	Additional labor, metal and other hardware to properly outfit the truck
10 New Services	Single Family, Owner Build, New Homes (12 YTD)	20 workorders	2019 Docket			\$ 46,000	\$ 46,000	\$ 46,000		Various	Yes	\$ 28.85	\$ 1,327	
20 Renewed Services	Replacement of failed services (Run rate) (11)	workorders	2019 Docket			\$ 92,000	\$ 92,000	\$ 37,758		Various	Yes	\$ 28.85	\$ 1,089	11 failed services replaced YTD. Additional 4 failed services projected thorough year end.
10 Hydrants	Replacement of non functional hydrants (Run rate) (8 YTD)	30 & 31 workorders	2019 Docket			\$ 50,000	\$ 50,000	\$ 50,000		Various	Yes	\$ 28.85	\$ 1,443	8 failed hydrants replaced YTD. Additional 2 failed hydrants projected thorough year end.
10 Valve Replacements	Replacement of Failed Gate Valves (Run rate) (5 YTD)	workorders	2019 Docket			\$ 30,000	\$ 30,000	\$ 20,000		Various	Yes	\$ 28.85	\$ 577	
Replace failed meter reading radios	Replace out of warrantee failed radio meter readers (280 YTD)	34 workorders	2019 Docket			\$ 50,000	\$ 50,000	\$ 50,000		Various	Yes	\$ 28.85	\$ 1,443	
480 New Meters (forwrb) 5/8"-2" (CORE & CWS)	New meters for new customers, including PFOA (232 YTD)	50 workorders	2019 Docket			\$ 114,000	\$ 114,000	\$ 40,000		Various	Yes	\$ 28.85	\$ 1,154	
2,355 New Meters for Lead Meter exchanges (PWW-CORE & CWS) 5/8"-6"	Replace High lead brass meter with new no lead brass meter (1917 YTD)	50 workorders	2019 Docket			\$ 532,000	\$ 532,000	\$ 360,000		Various	Yes	\$ 28.85	\$ 10,386	
Ferromagnetic Pipe locators (3)	Ongoing small equipment replacement - run rate	n/a	2019 Docket			\$ 10,000	\$ 10,000	\$ 10,000		Merrimack	No	\$ 28.17	\$ -	
Service Truck replacement (#76)	Replace 2008 Pick up with 156,000+ miles	n/a	2019 Docket			\$ 60,000	\$ 60,000	\$ 60,000		Merrimack	No	\$ 28.17	\$ -	
1 Service Truck - New	Service Truck for 1 new ops employees	n/a	2019 Docket			\$ 35,000	\$ 35,000	\$ 35,000		Merrimack	No	\$ 28.17	\$ -	
Replacement of Meter Supervisor Truck (#14)	Replace 7 year old pick up with 167,000+ miles with small SUV	1825491	2019 Docket			\$ 28,000	\$ 28,000	\$ 28,000		Merrimack	No	\$ 28.17	\$ -	
Replace Valve/vac trailer unit	Existing unit has reach the end of its usable life	n/a	2019 Docket			\$ 65,000	\$ 65,000	\$ -		Merrimack	No	\$ 28.17	\$ -	Project deferred until 2019
Trimble units for Meter Reading (6 units)	Replace CE meter reading equipment	n/a	2019 Docket			\$ 39,000	\$ 39,000	\$ 48,000		Merrimack	No	\$ 28.17	\$ -	
Pipe Saws (5)	Ongoing small equipment replacement - run rate	1819287	2019 Docket			\$ 6,000	\$ 6,000	\$ 5,900		Merrimack	No	\$ 28.17	\$ -	
Metal Detectors (6)	Ongoing small equipment replacement - run rate	n/a	2019 Docket			\$ 7,000	\$ 7,000	\$ 7,000		Merrimack	No	\$ 28.17	\$ -	
Add Air Conditioning to Mechanics Bay	Security Project	1805724	2019 Docket			\$ 52,000	\$ 62,641	\$ 62,641		Merrimack	Yes	\$ 28.17	\$ 1,765	Updated quotes with higher materials cost, steel surcharge & Freight.
Four trench boxes	Replace 22 year old trench boxes	1818578	2019 Docket			\$ 20,000	\$ 22,456	\$ 22,456		Merrimack	No	\$ 28.17	\$ -	
Vehicle Lift Replacement	Replace 9000lb Ammo lift with new 12000lb Rotary Lift in Mechanic's Bay	1805726	2019 Docket			\$ -	\$ -	\$ 7,974		Merrimack	Yes	\$ 28.17	\$ 225	
Utility Truck	Replace Vehicle #4 2011 F-350 w/ 140,000 miles and higher maintenance needs		2019 Docket			\$ -	\$ -	\$ 65,000		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
Utility Van	Replace Vehicle #72 2011 Ford E-2500 Van - High milage & maintenance costs		2019 Docket			\$ -	\$ -	\$ 35,000		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
Utility Van	Replace Vehicle #26 2011 Ford E-2500 Van - High Milage & maintenance costs		2019 Docket			\$ -	\$ -	\$ 35,000		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
Utility Van	Replace Vehicle #27 2011 Ford E-2500 Van - high milage & maintenance costs		2019 Docket			\$ -	\$ -	\$ 35,000		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
GrondoMat Boring Tool	New unit with Smaller diameter boring unit		2019 Docket			\$ -	\$ -	\$ 5,000		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
Swivel Plate Compactor (2)	to replace existing high maintenance nits to be retired		2019 Docket			\$ -	\$ -	\$ 12,000		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
Pavement Compactors (2)	Needed for City Paving & replacemnt of units to be retired		2019 Docket			\$ -	\$ -	\$ 4,000		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
Submersible Electric Pumps (4)	New 2" Submersible Electric Pumps with 50' Discharge Hose (4)		2019 Docket			\$ -	\$ -	\$ 2,500		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
Road Plates (2)	8x8 and 8x10 1" Steel Road Plates		2019 Docket			\$ -	\$ -	\$ 5,500		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
Portable Hotwater Pressure Washer	Prtable Hot Water Pressure Washer for Vehicle & Facility Cleaning		2019 Docket			\$ -	\$ -	\$ 7,000		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
Pipe Freeze Kit	Pipe Freeze Kit to replace aging high maintenance existinsg unit		2019 Docket			\$ -	\$ -	\$ 5,000		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
Ice Making Machine	Ice Making Machine for Distribution Facility		2019 Docket			\$ -	\$ -	\$ 7,000		Merrimack	No	\$ 28.17	\$ -	2019 Capital Budget item moved to 2018
Interconnection of BWC (Bedford) to PWW	Interconnection of BWC (Bedford) to PWW	1800734	2019 Docket			\$ 85,000	\$ 310,000	\$ 310,000		Bedford	Yes	\$ 23.19	\$ 7,189	Original budget done prior to design; increased scope of work to remove all AC water main from Back River Rd.
Ilm St	Replace 1570 LF of 8 & 6 inch CI with 12 inch DIPCL	1812907	2019 Docket			\$ 416,000	\$ -	\$ -		Nashua	Yes	\$ 29.82	\$ -	City Sewer delayed until 2019
Monroe Street	Replace 485 LF of 4 inch (HDPE,CI) with 8 inch DIPCL	1812908	2019 Docket			\$ 122,000	\$ -	\$ -		Nashua	Yes	\$ 29.82	\$ -	City Sewer delayed until 2019
West Pearl Street	Replace 325 LF of 8 inch CI with 8 inch DIPCL	1812909	2019 Docket			\$ 100,000	\$ -	\$ -		Nashua	Yes	\$ 29.82	\$ -	City Sewer delayed until 2019
Gillis St	Residual paving from prior year main replacement	1812910	2019 Docket			\$ 143,000	\$ 66,000	\$ 60,000		Nashua	Yes	\$ 29.82	\$ 1,789	Restoration turned over to City of Nashua with multiple utilities contributing
Orange St (Concord St to Lock St)	Residual paving from prior year main replacement	1812911	2019 Docket			\$ 96,000	\$ 96,000	\$ 65,000		Nashua	Yes	\$ 29.82	\$ 1,938	Based on revised paving contribution estimate
Temple Street	Residual paving from prior year main replacement	1812923	2019 Docket			\$ -	\$ 20,000	\$ 20,000		Nashua	Yes	\$ 29.82	\$ 596	
Buchanan St	Residual paving from prior year main replacement	n/a	2019 Docket			\$ 36,600	\$ 36,600	\$ 38,000		Nashua	Yes	\$ 29.82	\$ 1,133	
Lincoln Ave	Residual paving from prior year main replacement	1813071	2019 Docket			\$ 52,300	\$ 52,300	\$ 54,000		Nashua	Yes	\$ 29.82	\$ 1,610	
Nutt St	Residual paving from prior year main replacement	1812912	2019 Docket			\$ 39,600	\$ 39,600	\$ 41,000		Nashua	Yes	\$ 29.82	\$ 1,223	
Circle Ave	Residual paving from prior year main replacement	1812913	2019 Docket			\$ 11,000	\$ 11,000	\$ 19,140		Nashua	Yes	\$ 29.82	\$ 571	
Pratt St	Residual paving from prior year main replacement	1812914	2019 Docket			\$ 47,000	\$ 47,000	\$ 49,000		Nashua	Yes	\$ 29.82	\$ 1,461	
Zellwood Ave	Residual paving from prior year main replacement	1812915	2019 Docket			\$ 25,000	\$ 25,000	\$ 27,000		Nashua	Yes	\$ 29.82	\$ 805	
Faxon St	Residual paving from prior year main replacement	1812916	2019 Docket			\$ 6,000	\$ 6,000	\$ 7,000		Nashua	Yes	\$ 29.82	\$ 209	
Fifield St	Residual paving from prior year main replacement	1812917	2019 Docket			\$ 4,400	\$ 4,400	\$ 6,400		Nashua	Yes	\$ 29.82	\$ 191	
Fowell Ave	Residual paving from prior year main replacement	n/a	2019 Docket			\$ 59,400	\$ 59,400	\$ 61,000		Nashua	Yes	\$ 29.82	\$ 1,819	
Terrace Street	Residual paving from prior year main replacement	1812918	2019 Docket			\$ 5,200	\$ 5,200	\$ 5,200		Nashua	Yes	\$ 29.82	\$ 155	
Beard St	Residual paving from prior year main replacement	1812919	2019 Docket			\$ 16,100	\$ 17,700	\$ 17,700		Nashua	Yes	\$ 29.82	\$ 528	
Green St	Residual paving from prior year main replacement	1812920	2019 Docket			\$ 3,100	\$ 3,100	\$ 3,100		Nashua	Yes	\$ 29.82	\$ 92	
Warren St	Residual paving from prior year main replacement		2019 Docket			\$ 11,000	\$ 11,000	\$ 11,000		Nashua	Yes	\$ 29.82	\$ 328	
Lowell St	Residual paving from prior year main replacement	1812921	2019 Docket			\$ 23,000	\$ 23,000	\$ 23,000		Nashua	Yes	\$ 29.82	\$ 686	
Lemon St	Residual paving from prior year main replacement	1812922	2019 Docket			\$ 4,400	\$ 4,400	\$ 4,400		Nashua	Yes	\$ 29.82	\$ 131	
Mulvantly St - Emergency Replacement	Residual paving from prior year main replacement	1812925	2019 Docket			\$ 51,700	\$ 21,670	\$ 21,670		Nashua	Yes	\$ 29.82	\$ 646	Paving shared with other impacted Utilities and City
Proctor Street Emergency Replacement	Residual paving from prior year main replacement	1812924	2019 Docket			\$ -	\$ 11,600	\$ 11,600		Nashua	Yes	\$ 29.82	\$ 346	
Reserve for Contingent Liability for Paving Costs	Reserve for Contingent Liability for Paving Costs	n/a	2019 Docket			\$ (634,800)	\$ (634,800)	\$ (634,800)		Nashua	No	\$ 29.82	\$ -	
Asset Management	Asset Management		2019 Docket			\$ 330,000	\$ 561,000	\$ 461,000		Various	Yes	\$ 28.85	\$ 13,300	Reduced based on anticipated work to be completed in 2018
Asset Management - Outside GIS Consulting Services	Outside GIS Consulting Services	1800341	2019 Docket			\$ 73,000	\$ 73,000	\$ -		Various	No	\$ 28.85	\$ -	Carried in Asset Management Budget
Asset Management - Water Modeling Consulting	Water Modeling Consulting	1800341	2019 Docket			\$ 50,000	\$ 50,000	\$ 10,000		Various	No	\$ 28.85	\$ -	Used on an as-needed basis
Asset Management - Trimble R2 Units	Trimble R2 Units	1800341	2019 Docket			\$ 13,000	\$ -	\$ -		Various	Yes	\$ 28.85	\$ -	Replacement not needed in 2018
Asset Management - Water Level Well Monitoring Equipment	Water Level Well Monitoring Equipment	1800341	2019 Docket			\$ 5,000	\$ 5,000	\$ -		Various	No	\$ 28.85	\$ -	Replacement not needed in 2018
Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL	1806433	2019 Docket			\$ 475,100	\$ 435,000	\$ -		Nashua	Yes	\$ 29.82	\$ -	Reduce based on bid numbers. Deferred to 2019 due to City work starting late.
Ritter Street	Replace 500LF of 6 inch CI with 12 inch DIPCL	1806828	2019 Docket			\$ 161,500	\$ 215,000	\$ 225,000		Nashua	Yes	\$ 29.82	\$ 6,710	Increased due to conditions encountered during construction and additional temporary paving
Woodward Street	Replace 300 LF of 6 inch CI with 12 inch DIPCL	1806829	2019 Docket			\$ 95,300	\$ 110,000	\$ 130,000		Nashua	Yes	\$ 29.82	\$ 3,877	Increased due to conditions encountered during construction and additional temporary paving
Factory Street	Replace 625 LF of 8 inch and 950 LF CI 950 LF of 16 inch DIPCL	1806830	2019 Docket			\$ 487,000	\$ 520,000	\$ 540,000		Nashua	Yes	\$ 29.82	\$ 16,103	Increased due to conditions encountered during construction and additional temporary paving
Pennichuck Street	Replace 100 LF of 12 inch CI with 12 inch DIPCL	1806831	2019 Docket			\$ 39,900	\$ 42,000	\$ 76,000		Nashua	Yes	\$ 29.82	\$ 2,266	Increased due to conditions encountered during construction and additional temporary paving
Early Street	Replace 385 LF of 6" CI with 8" DIPCL	1806836	2019 Docket			\$ -	\$ 119,000	\$ 119,000		Nashua	Yes	\$ 29.82	\$ 3,549	Added to Misc Replacements to improve fire protection near hospital
Fossa Avenue	Replace 310 LF of 6 inch CI and 2 PVC with 6 inch and 4 inch DIPCL	1806801	2019 Docket			\$ 46,200	\$ 38,346	\$ 38,346		Nashua	Yes	\$ 29.82	\$ 1,143	Reduce based on bid numbers does not include final paving
Russell Avenue	Replace 775 LF of 8 inch and 275 LF of 6 inch CI with 775 LF of 8 inch and 225 LF of 4 inch DIPCL	1806802	2019 Docket			\$ 237,800	\$ 197,374	\$ 197,374		Nashua	Yes	\$ 29.82	\$ 5,886	Reduce based on bid numbers does not include final paving
Taylor Street (Main St to Fifield)	Replace 790 LF of 6 inch CI with 8 inch DIPCL	1806803	2019 Docket			\$ 171,800	\$ 142,594	\$ 152,600		Nashua	Yes	\$ 29.82	\$ 4,551	Reduce based on bid numbers does not include final paving
Burnett Street	Replace 535 LF of 6 inch CI with 12 inch DIPCL	1806804	2019 Docket			\$ 172,800	\$ 143,424	\$ 143,424		Nashua	Yes	\$ 29.82	\$ 4,277	Reduce based on bid numbers does not include final paving
Field Street	Replace 325 LF of 6 inch CI with 6 inch DIPCL	1806835	2019 Docket			\$ 71,700	\$ 59,511	\$ 59,511		Nashua	Yes	\$ 29.82	\$ 1,775	Reduce based on bid numbers does not include final paving
Fernwood Street	Replace 450 LF of 6 inch CI with 6 inch DIPCL	1806794	2019 Docket			\$ 159,000	\$ 131,970	\$ 131,970		Nashua	Yes	\$ 29.82	\$ 3,935	Reduce based on bid numbers does not include final paving
Revere Street	Replace 760 LF of 6 inch CI with 8 inch DIPCL	1806795	2019 Docket			\$ 191,000	\$ 158,530	\$ 158,530		Nashua	Yes	\$ 29.82	\$ 4,727	Reduce based on bid numbers does not include final paving
Stevens Street	Replace 760 LF of 8 inch CI and 160 LF of 6 inch CI with 760 LF of 8 inch and 160 LF of 4 inch DIPCL	1806797	2019 Docket			\$ 40,000	\$ 33,200	\$ 40,200		Nashua	Yes	\$ 29.82	\$ 1,199	
Evergreen Street	Replace 310 LF of 1.5 and 1.25 inch CI with 4 inch DIPCL	1806798	2019 Docket			\$ 69,300	\$ 57,519	\$ 57,519		Nashua	Yes	\$ 29.82	\$ 1,715	Reduce based on bid numbers does not include final paving
Morton Street	Replace 290 LF of 1.5 inch CI with 550 LF of 4 inch DIPCL	1806799	2019 Docket			\$ 94,000	\$ 78,020	\$ 78,020		Nashua	Yes	\$ 29.82	\$ 2,327	Reduce based on bid numbers does not include final paving
Park Avenue	Replace 300 LF of 8 inch CI and 160 LF of 2 inch CI with 300 LF of DIPCL and 160 LF of 4 inch DIPCL	1806796	2019 Docket			\$ 132,000	\$ 109,560	\$ 109,560		Nashua	Yes	\$ 29.82	\$ 3,267	Reduce based on bid numbers does not include final paving
Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL	n/a	2019 Docket			\$ 1,024,400	\$ -	\$ -		Nashua	Yes	\$ 29.82	\$ -	Deferred to future, time frame undetermined
Northwest High Pressure System Improvements	Looping of dead end mains. Parallel watermain required to rebuild Kessler Tank		2019 Docket			\$ -	\$ -	\$ -				\$ -	\$ -	
Northwest High Pressure System Improvements	Add 2700 LF of 24 inch DIPCL on Manchester St.	1806805	2019 Docket			\$ 600,000	\$ -	\$ -		Nashua	Yes	\$ 29.82	\$ -	Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
Northwest High Pressure System Improvements	Add 2200 LF of 12 inch DIPCL to close loop between Rte 101A and Rte 121 (Amherst)	1806810	2019 Docket			\$ 500,000	\$ -	\$ -		Amherst	Yes	\$ 30.30	\$ -	Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
Northwest High Pressure System Improvements	Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL along Tinker Rd.	1806434	2019 Docket			\$ 440,000	\$ -	\$ -		Nashua	Yes	\$ 29.82	\$ -	Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
Northwest High Pressure System Improvements	Replace 1300 LF of 12 inch AC with 1300 LF of 24 inch DIPCL along Deerwood Dr.	1806806	2019 Docket			\$ -	\$ -	\$ -						

2018 QCPAC Additions

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	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	Community	Taxable	Tax Rate (I)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since 1/30/2018
Lovewell Street	Replace 400 LF of 1.25" steel pipe with 8" DIPCL	1825912	2019 Docket			\$ -	\$ 210,000	\$ 86,000		Nashua	Yes	\$ 29.82	\$ 2,565	Gas replacement will compromise 1933 era water line. Based on revised contractor estimate and does not include final paving
Shakespeare High Pressure System	Expand HP system to address pressure issues to 4 streets	1813926	2019 Docket			\$ -	\$ 273,000	\$ 230,000		Nashua	Yes	\$ 29.82	\$ 6,859	Project developed in response to a combination of low pressure and pressure surges causing customer plumbing issues.
Lakeside Avenue	Replace 275 LF of 1.25" steel pipe with 4" PVC	n/a	2019 Docket			\$ -	\$ 75,000	\$ -		Nashua	Yes	\$ 29.82	\$ -	Gas Company with late start. Project requires temporary water. Deferred to 2019
Cheshire Street	Replace 394 LF of 8" AC with 394 LF of 12" DIPCL	1825913	2019 Docket			\$ -	\$ -	\$ 123,000		Nashua	Yes	\$ 29.82	\$ 3,668	Eliminate AC water main located in Street that City added to their 2018 street paving project
Investment in developer installed services at 1xannual revenue	Per tariff (224)	n/a	2019 Docket			\$ -	\$ -	\$ 133,175		Various	Yes	\$ 28.85	\$ 3,842	Tariffed investment not included in Board approved budget
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements (13 YTD)	60, 61, 62 & 63 workorders	2019 Docket			\$ 60,000	\$ 60,000	\$ 60,000		Various	Yes	\$ 28.85	\$ 1,731	
Replace 2 Submersible Jet Pumps	Replace two submersible jet pumps in the headworks at the WTP	1818297	2019 Docket			\$ -	\$ -	\$ 14,707						
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS	n/a	2019 Docket			\$ 15,000	\$ 15,000	\$ 15,000		Various	Yes	\$ 28.85	\$ 433	
Misc. Structural Improvements	Misc. Structural Improvements		2019 Docket			\$ 20,000	\$ 20,000	\$ 5,000		Various	Yes	\$ 28.85	\$ 144	
Misc. Structural Improvements	WTP - Replace FWPS oil Tank Leak Monitor	1820031	2019 Docket			\$ -	\$ -	\$ 1,200						
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		2019 Docket			\$ 20,000	\$ 20,000	\$ 5,000		Various	Yes	\$ 28.85	\$ 144	
Replacement of 18" Backwash Acuator	The replacement of the electric valve actuator for the 18" backwash water control valve	1819988	2019 Docket			\$ -	\$ -	\$ 4,456						
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		2019 Docket			\$ 30,000	\$ 30,000	\$ 10,000		Various	Yes	\$ 28.85	\$ 289	
Miscellaneous SCADA/Electrical	WTP - Replace High Lift #4, Soft Starter Mechanism	1813113	2019 Docket			\$ -	\$ -	\$ 5,265						
Miscellaneous SCADA/Electrical	WTP - Replace Turbidimeter Controller - Filters 1A/1B	1805725	2019 Docket			\$ -	\$ -	\$ 3,246						
Miscellaneous SCADA/Electrical	Install CMI units on 4 meters at this location	1814856	2019 Docket			\$ -	\$ -	\$ 3,272						
Miscellaneous SCADA/Electrical	Replacement of the variable frequency drive unit for pump #2 at this location	1819989	2019 Docket			\$ -	\$ -	\$ 9,765						
Well Rehabilitation	Well Rehabilitation	n/a	2019 Docket			\$ 50,000	\$ 50,000	\$ -		Various	Yes	\$ 28.85	\$ -	No well rehabilitations projected to occur
WTP Structural/HVAC	WTP Structural/HVAC		2019 Docket			\$ 10,000	\$ 10,000	\$ -		Nashua	Yes	\$ 29.82	\$ -	
WTP Structural/HVAC	The rebuilding of the heating/AC roof top unit for WTP Finished Water Pump Station	1818208	2019 Docket			\$ -	\$ -	\$ 6,094						
Purchase new lab equipment	Purchase new lab equipment		2019 Docket			\$ 20,000	\$ 20,000	\$ 5,000		Nashua	No	\$ -	\$ -	
Purchase new lab equipment	Replace Combined Filter Effluent Chlorine Analyzer	1820254	2019 Docket			\$ -	\$ -	\$ 3,575						
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	n/a	2019 Docket			\$ 10,000	\$ 10,000	\$ -		Various	Yes	\$ 28.85	\$ -	None projected through year end
Purchase new vehicle #212	Vehicle needed for new Community Water System Operator	1816162	2019 Docket			\$ 65,000	\$ 65,000	\$ 39,513		Nashua	No	\$ 29.82	\$ -	
Replace Vehicle	Replacement of vehicle #62	1825490	2019 Docket			\$ 65,000	\$ 65,000	\$ 50,000		Nashua	No	\$ 29.82	\$ -	
Replace Vehicle	Replacement of vehicle #38	1819990	2019 Docket			\$ 40,000	\$ 40,000	\$ 27,306		Nashua	No	\$ 29.82	\$ -	
Replace Vehicle	Replacement of vehicle #14	1825491	2019 Docket			\$ 40,000	\$ 40,000	\$ 40,000		Nashua	No	\$ 29.82	\$ -	
WTP Perimeter Fence	WTP Perimeter Fence	n/a	2019 Docket			\$ 80,000	\$ 80,000	\$ -		Merrimack	Yes	\$ 28.17	\$ -	deferred to 2019 due to resource availability
Bowers Dam Spillway reconstruction engineering	Bowers Dam Spillway reconstruction engineering	1824545	2019 Docket			\$ 90,000	\$ 90,000	\$ 50,000		Merrimack	No	\$ 28.17	\$ -	Not Eligible for 2018 QCPAC as this is engineering only
WTP Camera system upgrade	Existing Camera system is outdated	1819073	2019 Docket			\$ 50,000	\$ 50,000	\$ 4,000		Nashua	Yes	\$ 29.82	\$ 119	Equipment will not be installed until 2019.
Dredging feasibility study	Dredging feasibility study	1807145	2019 Docket			\$ 31,500	\$ 31,500	\$ 31,500		Various	No	\$ 28.85	\$ -	Study is not QCPAC-Qualified
Sourcewater Protection Study	Sourcewater Protection Study	1807146	2019 Docket			\$ 15,000	\$ 15,000	\$ 15,000		Various	No	\$ 28.85	\$ -	Study is not QCPAC-Qualified
Purchase replacement Aeration system compressor	Harris Pond raw water aeration system, replace 1 of 2	n/a	2019 Docket			\$ -	\$ -	\$ 17,000		Nashua	Yes	\$ 29.82	\$ 507	Replaced existing compressor which was not repairable
Purchase new lab equipment	Purchase bench top Zeta potential analyzer	n/a	2019 Docket			\$ -	\$ -	\$ 75,000		Nashua	Yes	\$ 29.82	\$ 2,237	Device used to verify and correlate streaming current monitors and further optimize treatment process.
Purchase and install 2-raw water streaming current monitors	Replacement of two older units, 1 currently not operational	n/a	2019 Docket			\$ -	\$ -	\$ 55,000		Nashua	Yes	\$ 29.82	\$ 1,640	Devices used to optimize water treatment at Nashua Facility
Aquatic Vegetation Assessment and Management	Aquatic Vegetation Assessment and Management	1807147	2019 Docket			\$ 7,500	\$ 7,500	\$ 7,500		Various	No	\$ 28.85	\$ -	Study is not QCPAC-Qualified
WTP - Replace Filter to Waste Valve Actuator	Replace valve actuator that controls flow of water from filters during waste/backwash phase	1800482	2019 Docket			\$ -	\$ -	\$ 6,276						
Website Upgrades	Improved Customer Service Experience	1814346/1704175	2019 Docket			\$ 10,000	\$ 19,068	\$ 19,068		Merrimack	No	\$ 28.17	\$ -	
SIEM Appliance	Aggregate Real-time monitoring of system alerts and logs	n/a	2019 Docket			\$ 26,000	\$ -	\$ -		Merrimack	No	\$ 28.17	\$ -	Project Cancelled due to reduced need
Windows Server Licensing Renewal	Purchase Windows server for virtual servers	1813466	2019 Docket			\$ -	\$ -	\$ 22,925		Merrimack	No	\$ 28.17	\$ -	The assimilation of multiple new Windows Server licenses from multiple projects into one Enterprise License to cover all virtual servers.
AD Change Auditor	Needed to track changes to Authentication Server	n/a	2019 Docket			\$ 4,000	\$ 4,000	\$ -		Merrimack	No	\$ 28.17	\$ -	Due to the licensing model moving from Purchase to Subscription based, this will become an expense item.
File Server Replacement	Replace older hardware	n/a	2019 Docket			\$ 13,000	\$ -	\$ -		Merrimack	No	\$ 28.17	\$ -	Project Cancelled due to reduced need
Storage Upgrade	Replace non-supported hardware and increase speed	1817426	2019 Docket			\$ 70,000	\$ 52,000	\$ 52,000		Merrimack	No	\$ 28.17	\$ -	
Munis FIER Enhancements	Needed as Business process change	n/a	2019 Docket			\$ 64,000	\$ 64,000	\$ 64,000		Merrimack	No	\$ 28.17	\$ -	
Click Mobile Application Changes	Needed as Business process change	n/a	2019 Docket			\$ 30,000	\$ 30,000	\$ 30,000		Merrimack	No	\$ 28.17	\$ -	
ClickMobile Move to iPads	Move to a more functional device	1702223	2019 Docket			\$ 140,000	\$ 140,000	\$ 140,000		Merrimack	No	\$ 28.17	\$ -	Hardware purchases and Contractor charges
Additional iPads for Meter Techs	Configuration and deployment of 6 devices	1825224	2019 Docket			\$ -	\$ -	\$ 6,000						
Implement Customer Balances over the phone	Improved Customer Service Experience		2019 Docket			\$ 4,000	\$ 4,000	\$ -		Merrimack	No	\$ 28.17	\$ -	Deferred until 2019
Miscellaneous Hardware	Run Rate replacements	1813280	2019 Docket			\$ 15,000	\$ 15,000	\$ 2,500		Merrimack	No	\$ 28.17	\$ -	
Miscellaneous Hardware	Purchase network switch for core routing @ Manchester Street	1813280	2019 Docket			\$ -	\$ -	\$ 4,203						
Miscellaneous Hardware	Castle/Ware Laptops	1818947	2019 Docket			\$ -	\$ -	\$ 4,642						Replaced desktops. Allows for remote access via VPN
Miscellaneous Hardware	Replacement Printer - Engineering	1817323	2019 Docket			\$ -	\$ 2,249	\$ 2,249		Merrimack	No	\$ 28.17	\$ -	Replace failed engineering printer
Miscellaneous Software	Run Rate replacements	n/a	2019 Docket			\$ 12,000	\$ 12,000	\$ 12,000		Merrimack	No	\$ 28.17	\$ -	
LIMS upgrade	Allow for Electronic Data Collection in the Field	1817795	2019 Docket			\$ 11,000	\$ 6,000	\$ 6,000		Merrimack	No	\$ 28.17	\$ -	
Physical Server for Pearl	Physical Server for Pearl	n/a	2019 Docket			\$ 12,000	\$ -	\$ -		Merrimack	No	\$ 28.17	\$ -	Project Cancelled due to reduced need
Corporate Job Scheduler	Centralized nightly job management and notification	n/a	2019 Docket			\$ 4,000	\$ 4,000	\$ 4,000		Merrimack	No	\$ 28.17	\$ -	
Consulting	Consulting	n/a	2019 Docket			\$ 32,000	\$ 32,000	\$ 32,000		Merrimack	No	\$ 28.17	\$ -	
Laptops for L.G. & D.W.	Laptops for L.G. & D.W.	1813464	2019 Docket			\$ 4,000	\$ 5,442	\$ 5,442		Merrimack	No	\$ 28.17	\$ -	Three Lap tops acquired for L.G., G.T. and J.B. Replaced desktops. Allows for remote access via VPN
Additional Computers	Additional Computers	1814843	2019 Docket			\$ 4,000	\$ 5,717	\$ 5,717		Merrimack	No	\$ 28.17	\$ -	
Replace 43 desk top computers at Main office	Computers are 7 years old and running on unsupported Windows 7 platform	1825498	2019 Docket			\$ -	\$ -	\$ 41,267						Moved project from 2019 to 2018
Office 365 Exchange Migration	Office 365 Exchange Migration	1817818	2019 Docket			\$ -	\$ 16,400	\$ 6,200		Merrimack	No	\$ 28.17	\$ -	
Pennichuck Water Works Projected 2018 Total Capital Expenditure Budget -						\$ 10,048,000	\$ 9,142,095	\$ 6,889,506		Projected Property Tax Expense associated with				\$ 178,909

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

2019 PWW Capex Budget

Project Name/Description	Project Description	Approved Budgeted Amount	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense
10 New Services	Single Family, Owner Build, New Homes	\$ 46,000	Various	Yes	\$ 28.85	\$ 1,327
20 Renewed Services	Replacement of failed services	\$ 92,000	Various	Yes	\$ 28.85	\$ 2,654
10 Hydrants	Replacement of non functional hydrants	\$ 50,000	Various	Yes	\$ 28.85	\$ 1,443
10 Valve Replacements	Replacement of Failed Gate Valves	\$ 30,000	Various	Yes	\$ 28.85	\$ 866
Replace failed radio meter readers	Replace out of warranty failed radio meter readers (280)	\$ 50,000	Various	Yes	\$ 28.85	\$ 1,443
250 New Meters (growth) 5/8"-2" (CORE & CWS)	250 New Meters (growth) 5/8"-2" (CORE & CWS)	\$ 62,000	Various	Yes	\$ 28.85	\$ 1,789
1,150 New Meters for Lead Meter exchanges (PWW-CORE) 5/8"-6'	1,150 New Meters for Lead Meter exchanges (PWW-CORE) 5/8"-6'	\$ 259,000	Various	Yes	\$ 28.85	\$ 7,472
270 New Meters for PT exchanges 5/8"-6'	270 New Replacement Meters for PT's 5/8"-6'	\$ 27,000	Various	Yes	\$ 28.85	\$ 779
Metal Detectors (6)	Ongoing small equipment replacement - run rate	\$ 7,000	Merrimack	No	\$ 28.17	\$ -
Ferromagnetic Pipe locators (3)	Ongoing small equipment replacement - run rate	\$ 10,000	Merrimack	No	\$ 28.17	\$ -
Service Truck replacement (#4)	Replace 2011 Pickup Truck with 160,000+ projected miles	\$ 60,000	Merrimack	No	\$ 28.17	\$ -
Meter service van replacement (#72)	Replace 2009 Meter Van with 158,000+ projected miles	\$ 35,000	Merrimack	No	\$ 28.17	\$ -
Mud Pump Replacements (2)	Ongoing small equipment replacement	\$ 4,000	Merrimack	No	\$ 28.17	\$ -
Tapping Machine replacements (2)	Tapping Machine replacements (2)	\$ 4,000	Merrimack	No	\$ 28.17	\$ -
Trimble units for Meter Reading (4 units)	Replace remaining CE meter reading equipment	\$ 13,000	Merrimack	No	\$ 28.17	\$ -
Replace 2850 meter reading radios	Complete with PT's, Replace aging radios	\$ 270,000	Various	No	\$ 28.85	\$ -
Elm St	Residual paving from prior year main replacement	\$ 22,000	Nashua	Yes	\$ 29.82	\$ 656
Monroe Street	Residual paving from prior year main replacement	\$ 10,000	Nashua	Yes	\$ 29.82	\$ 298
West Pearl Street	Residual paving from prior year main replacement	\$ 10,000	Nashua	Yes	\$ 29.82	\$ 298
Gilman Street	Residual paving from prior year main replacement	\$ 180,000	Nashua	Yes	\$ 29.82	\$ 5,368
Ritter Street	Residual paving from prior year main replacement	\$ 61,200	Nashua	Yes	\$ 29.82	\$ 1,825
Woodward Street	Residual paving from prior year main replacement	\$ 36,200	Nashua	Yes	\$ 29.82	\$ 1,079
Factory Street	Residual paving from prior year main replacement	\$ 155,600	Nashua	Yes	\$ 29.82	\$ 4,640
Pennichuck Street	Residual paving from prior year main replacement	\$ 13,200	Nashua	Yes	\$ 29.82	\$ 394
Fossa Avenue	Residual paving from prior year main replacement	\$ 33,400	Nashua	Yes	\$ 29.82	\$ 996
Russell Avenue	Residual paving from prior year main replacement	\$ 52,700	Nashua	Yes	\$ 29.82	\$ 1,572
Taylor Street (Main St to Fifield)	Residual paving from prior year main replacement	\$ 86,500	Nashua	Yes	\$ 29.82	\$ 2,579
Burnett Street	Residual paving from prior year main replacement	\$ 65,500	Nashua	Yes	\$ 29.82	\$ 1,953
Field Street	Residual paving from prior year main replacement	\$ 33,500	Nashua	Yes	\$ 29.82	\$ 999
Fernwood Street	Residual paving from prior year main replacement	\$ 45,000	Nashua	Yes	\$ 29.82	\$ 1,342
Revere Street	Residual paving from prior year main replacement	\$ 80,100	Nashua	Yes	\$ 29.82	\$ 2,389
Stevens Street	Residual paving from prior year main replacement	\$ 102,100	Nashua	Yes	\$ 29.82	\$ 3,045
Evergreen Street	Residual paving from prior year main replacement	\$ 26,000	Nashua	Yes	\$ 29.82	\$ 775
Morton Street	Residual paving from prior year main replacement	\$ 45,000	Nashua	Yes	\$ 29.82	\$ 1,342
Park Avenue	Residual paving from prior year main replacement	\$ 38,000	Nashua	Yes	\$ 29.82	\$ 1,133
Northwest Water Main Improvements	Residual paving from prior year main replacement	\$ 35,000	Nashua	Yes	\$ 29.82	\$ 1,044
Lake Street	Residual paving from prior year main replacement	\$ 330,000	Nashua	Yes	\$ 29.82	\$ 9,841
Coburn Woods (all side streets)	Residual paving from prior year main replacement	\$ 175,700	Nashua	Yes	\$ 29.82	\$ 5,239
Brook Street	Replace 225 LF of 4 inch and 915 LF of 6 inch CI with 1140 LF of 8 inch DIPCL	\$ 255,600	Nashua	Yes	\$ 29.82	\$ 7,622
Hamilton Street	Replace 410 LF of 6 inch CI with 4 inch DIPCL	\$ 47,400	Nashua	Yes	\$ 29.82	\$ 1,413
Ash Street	Replace 510 LF of 6 inch CI with 8 inch DIPCL	\$ 115,600	Nashua	Yes	\$ 29.82	\$ 3,447
Burritt Street	Replace 425 LF of 4 inch CI with 8 inch DIPCL	\$ 95,000	Nashua	Yes	\$ 29.82	\$ 2,833
Burritt Street	Replace 125 LF of 4 inch CI with 4 inch DIPCL	\$ 21,000	Nashua	Yes	\$ 29.82	\$ 626
Verona Street	Replace 675 LF of 6 inch CI with 8 inch DIPCL	\$ 151,900	Nashua	Yes	\$ 29.82	\$ 4,530
Sarasota Ave	Replace 250 LF of 6 inch CI with 8 inch DIPCL	\$ 56,000	Nashua	Yes	\$ 29.82	\$ 1,670
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	\$ 5,500,000	Merrimack	Yes	\$ 28.17	\$ 154,935
Twin Ridge Station Improvements	Twin Ridge Station Improvements	\$ 330,000	Plaistow	Yes	\$ 28.39	\$ 9,369
Outside GIS Consulting Services	Outside GIS Consulting Services	\$ 24,000	Merrimack	No	\$ 28.17	\$ -
Water Modeling Consulting	Water Modeling Consulting	\$ 10,000	Merrimack	No	\$ 28.17	\$ -

Project Name/Description	Project Description	Approved Budgeted Amount	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense
Water Level Well Monitoring Equipment	Water Level Well Monitoring Equipment	\$ 5,000	Various	No	\$ 28.85	\$ -
Replace SUV	Replace SUV	\$ 30,000	Merrimack	No	\$ 28.17	\$ -
Replace Pickup	Replace Pickup	\$ 30,000	Merrimack	No	\$ 28.17	\$ -
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements	\$ 60,000	Various	Yes	\$ 28.85	\$ 1,731
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS	\$ 15,000	Various	Yes	\$ 28.85	\$ 433
Misc. Structural Improvements	Misc. Structural Improvements	\$ 20,000	Various	Yes	\$ 28.85	\$ 577
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	\$ 20,000	Various	Yes	\$ 28.85	\$ 577
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	\$ 30,000	Various	Yes	\$ 28.85	\$ 866
Well Rehabilitation	Well Rehabilitation	\$ 50,000	Various	Yes	\$ 28.85	\$ 1,443
WTP Structural/HVAC	WTP Structural/HVAC	\$ 10,000	Nashua	Yes	\$ 29.82	\$ 298
Purchase new lab equipment	Purchase new lab equipment	\$ 20,000	Nashua	No	\$ 29.82	\$ -
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	\$ 10,000	Various	Yes	\$ 28.85	\$ 289
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 65,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 65,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 40,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 40,000	Nashua	No	\$ 29.82	\$ -
Bowers Dam Spillway reconstruction	Bowers Dam Spillway reconstruction	\$ 900,000	Various	Yes	\$ 28.85	\$ 25,965
Carbon media changeout-filters 1 & 3	Carbon media changeout-filters 1 & 3	\$ 550,000	Nashua	Yes	\$ 29.82	\$ 16,401
Desktop PC Replacements	Desktop Replacements	\$ 80,000	Merrimack	No	\$ 28.17	\$ -
Miscellaneous Hardware	Miscellaneous Hardware	\$ 15,000	Merrimack	No	\$ 28.17	\$ -
Miscellaneous Software	Miscellaneous Software	\$ 12,000	Merrimack	No	\$ 28.17	\$ -
Other IT Miscellaneous Projects - Run Rate	Other Miscellaneous IT Projects - Run Rate	\$ 275,000	Merrimack	No	\$ 28.17	\$ -
Pennichuck Water Works Projected 2019 Total Capital Expenditure Budget -		\$ 11,604,200	Projected Property Tax Expense associated with QCPAC projects -			\$ 301,601

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	Approved Budgeted Amount	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense
10 New Services	Single Family, Owner Build, New Homes	\$ 46,000	Various	Yes	\$ 29.13	\$ 1,340
20 Renewed Services	Replacement of failed services	\$ 92,000	Various	Yes	\$ 29.13	\$ 2,680
10 Hydrants	Replacement of non functional hydrants	\$ 50,000	Various	Yes	\$ 29.13	\$ 1,457
10 Valve Replacements	Replacement of Failed Gate Valves	\$ 30,000	Various	Yes	\$ 29.13	\$ 874
Replace failed radio meter readers	Replace out of warrantee failed radio meter readers (280)	\$ 50,000	Various	Yes	\$ 29.13	\$ 1,457
250 New Meters (growth) 5/8"-2" (CORE & CWS)	250 New Meters (growth) 5/8"-2" (CORE & CWS)	\$ 65,000	Various	Yes	\$ 29.13	\$ 1,893
270 New Meters for PT exchanges 5/8"-6'	270 New Replacement Meters for PT's 5/8"-6'	\$ 27,000	Various	Yes	\$ 29.13	\$ 787
Metal Detectors (6)	Ongoing small equipment replacement - run rate	\$ 7,000	Merrimack	No	\$ 28.17	\$ -
Ferromagnetic Pipe locators (3)	Ongoing small equipment replacement - run rate	\$ 10,000	Merrimack	No	\$ 28.17	\$ -
Service Pick Up replacement (#20)	Replace 2008 with projected 136,000+ miles	\$ 35,000	Merrimack	No	\$ 28.17	\$ -
Meter Pick Up replacement (#95)	Replace 2008 with projected 130,000+ miles	\$ 60,000	Merrimack	No	\$ 28.17	\$ -
Meter Van replacement ( #27)	Replace 2011 with projected 135,000+ miles	\$ 35,000	Merrimack	No	\$ 28.17	\$ -
Meter Reading SUV replacement ( #21)	Replace 2011 with projected 140,000+ miles	\$ 35,000	Merrimack	No	\$ 28.17	\$ -
Mud Pump Replacements (3)	Mud Pump Replacements (3)	\$ 4,000	Merrimack	No	\$ 28.17	\$ -
Radio Replacements (2850)	Complete with PT's, Replace aging radios	\$ 270,000	Various	Yes	\$ 29.13	\$ 7,865
Brook Street	Residual paving from prior year main replacement	\$ 128,700	Nashua	Yes	\$ 29.82	\$ 3,838
Hamilton Street	Residual paving from prior year main replacement	\$ 40,900	Nashua	Yes	\$ 29.82	\$ 1,220
Ash Street	Residual paving from prior year main replacement	\$ 58,300	Nashua	Yes	\$ 29.82	\$ 1,739
Burritt Street	Residual paving from prior year main replacement	\$ 47,800	Nashua	Yes	\$ 29.82	\$ 1,425
Burritt Street	Residual paving from prior year main replacement	\$ 18,100	Nashua	Yes	\$ 29.82	\$ 540
Verona Street	Residual paving from prior year main replacement	\$ 76,500	Nashua	Yes	\$ 29.82	\$ 2,281
Sarasota Ave	Residual paving from prior year main replacement	\$ 28,200	Nashua	Yes	\$ 29.82	\$ 841
Fields Grove Park Crossing (Chestnut to Lawndale)	Add 750 LF of 16 inch HDPE (stream crossing)	\$ 441,800	Nashua	Yes	\$ 29.82	\$ 13,174
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL	\$ 127,000	Nashua	Yes	\$ 29.82	\$ 3,787
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL	\$ 219,200	Nashua	Yes	\$ 29.82	\$ 6,537
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL	\$ 39,200	Nashua	Yes	\$ 29.82	\$ 1,169
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL	\$ 51,100	Nashua	Yes	\$ 29.82	\$ 1,524
St Lazare Street	Replace 415 LF of 2 inch CI with 4 inch DIPCL	\$ 49,300	Nashua	Yes	\$ 29.82	\$ 1,470
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL	\$ 23,800	Nashua	Yes	\$ 29.82	\$ 710
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL	\$ 47,000	Nashua	Yes	\$ 29.82	\$ 1,402
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL	\$ 83,000	Nashua	Yes	\$ 29.82	\$ 2,475
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL	\$ 63,000	Nashua	Yes	\$ 29.82	\$ 1,879
Harvard Street	Replace 800 LF of 8 inch CI with 8 inch DIPCL	\$ 181,000	Nashua	Yes	\$ 29.82	\$ 5,397
Alld Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL	\$ 637,000	Nashua	Yes	\$ 29.82	\$ 18,995
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL	\$ 360,600	Nashua	Yes	\$ 29.82	\$ 10,753
Taylor Road (Lynn St to	Replace 725 LF of 8 inch CI with 12 inch DIPCL	\$ 241,200	Nashua	Yes	\$ 29.82	\$ 7,193
Temple St (south to Gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL	\$ 301,400	Nashua	Yes	\$ 29.82	\$ 8,988
School Street ( High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL	\$ 91,400	Nashua	Yes	\$ 29.82	\$ 2,726
Kessler Farm Tank Replacement	Kessler Farm Tank Replacement	\$ 3,080,000	Nashua	Yes	\$ 29.82	\$ 91,846
Outside GIS Consulting Services	Outside GIS Consulting Services	\$ 18,000	Merrimack	No	\$ 28.17	\$ -
Water Modeling Consulting	Water Modeling Consulting	\$ 10,000	Merrimack	No	\$ 28.17	\$ -
Water Level Well Monitoring Equipment	Water Level Well Monitoring Equipment	\$ 5,000	Various	No	\$ 28.85	\$ -
Replace SUV	Replace SUV	\$ 30,000	Merrimack	No	\$ 28.17	\$ -
Replace Pickup	Replace Pickup	\$ 30,000	Merrimack	No	\$ 28.17	\$ -
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements	\$ 60,000	Various	Yes	\$ 28.85	\$ 1,731
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS	\$ 15,000	Various	Yes	\$ 28.85	\$ 433
Misc. Structural Improvements	Misc. Structural Improvements	\$ 20,000	Various	Yes	\$ 28.85	\$ 577
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	\$ 20,000	Various	Yes	\$ 28.85	\$ 577

1/30/2018, Revised 6/25/2018

Project Name/Description	Project Description	Approved Budgeted Amount	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	\$ 30,000	Various	Yes	\$ 28.85	\$ 866
Well Rehabilitation	Well Rehabilitation	\$ 50,000	Various	Yes	\$ 28.85	\$ 1,443
WTP Structural/HVAC	WTP Structural/HVAC	\$ 10,000	Nashua	Yes	\$ 29.82	\$ 298
Purchase new lab equipment	Purchase new lab equipment	\$ 20,000	Nashua	No	\$ 29.82	\$ -
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	\$ 10,000	Various	Yes	\$ 28.85	\$ 289
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 65,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 65,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 40,000	Nashua	No	\$ 29.82	\$ -
Replace Vehicle	Run Rate Replacement of Water supply vehicles	\$ 40,000	Nashua	No	\$ 29.82	\$ -
Carbon Media changeout - filters 3 & 4	Carbon Media changeout - filters 3 & 4	\$ 550,000	Nashua	Yes	\$ 29.82	\$ 16,401
Work Order and Asset Management (Synergen upgrade)	Upgrade WAM to new infrastructure and interface	\$ 90,000	Merrimack	Yes	\$ 28.17	\$ 2,535
Miscellaneous Hardware	Miscellaneous Hardware	\$ 15,000	Merrimack	No	\$ 28.17	\$ -
Miscellaneous Software	Miscellaneous Software	\$ 12,000	Merrimack	No	\$ 28.17	\$ -
Other IT Miscellaneous Projects - Run Rate	Other IT Miscellaneous Projects - Run Rate	\$ 275,000	Merrimack	No	\$ 28.17	\$ -
Pennichuck Water Works Projected 2020 Total Capital Expenditure Budget -		\$ 8,731,500	Projected Property Tax Expense associated with QCPAC projects -			\$ 235,407

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