4.222191% Average Coupon rate as the all-in TIC (Total Interest Cost) for the

Pennichuck Water Works, Inc. DW 19-029 Schedule A - Modified Revenue Requirement per DW-16-806 Computation of QCPAC Surcharge 2/9/2019, 6/17/2019 Revised per Tech Session DR1 Revised per Staff email of 6/24/2019 Updated to reflect June 30, 2019 Update

	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 Surcharge for 2019 Capital Additions	QCPAC For 2020 QCPAC S Capital Additions pro formas (7,8) Addit	Capital Capital Addition	s for 2021 Capital			
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 \$ 267,4	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 \$785,9	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 bil	1		\$ 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:  (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 payments for rewards of 1.10 is as approved in DW16-806  (3) 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 12/31/2017 based o													

30 year bond with an actual total all in interest rate of

## Impact on Single Family Residential Home:

which includes the 2018 capital project costs of

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 53.98

(14) 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

8,229,376.70 plus Cost of Issuance and net Premium/Discount on the issued bonds.

8,250,000.00

Part														OCBAC	
Park				***											
## 1975   1.	Project Name / Description	Project Description	Work Order #				Funded in DW16-806 Ster				Community	Tavable	Tay Rate (1)		
## Property of the Company of the Co										01 1/ 19/ 2018			Tax Nate (1)		
Marie And   Mari	Replace Aging Services		Monthly 21 22 23				Partial	\$ 80,000	Paid 2014 Bond		Nashua			\$ -	P&I and property taxes recovered in DW16-806 Step Increase
## 15 Per 1997   Per 1	replace rights pervices							\$ 00,000	,	\$ 100,454		Yes	\$ 29.82	\$ 2,996	
The color of the	Replace Aging Hydrants	, ,	Monthly 31					\$ 42,000		e 10.642		V	e 20.02	\$ -	
Mary	Replace Aging Valves	/ 1	Monthly 12, 13						, , , , , , , , , , , , , , , , , , , ,	,					
Material State   Mate								e		9 33,122		100	9 27.02	\$ -	
Marie   Mari	ivew Services		Monuny 20					9 -		\$ 29,648	Nashua	Yes	\$ 29.82		
The part of the content of the con	Replace Leaded Brass Meters with Lead free brass meters		Monthly 50					\$ 832,000		0.000		***			
Property										\$ 267,950		Yes	\$ 29.82	\$ 7,990	
Marie   Mari	Replace Aging meter reading Radios		Monthly 54					\$ 28,000		\$ 22,802		Yes	\$ 29.82	\$ 680	
A STANDARD METERS AND	Ferromagnetic Pipe locators (3)	Ferromagnetic Pipe locators (3)		DW17-183	26,101	2/2/2018	No	\$ 10,500	\$ 10,500	ĺ	Merrimack		\$ -		
Marie   Mari			4.000.17				110	¥ 100,000	7,	ų			S -	\$ -	
The column			1715542										\$ -	\$ -	Deferred vetil 2018
March Color for Color fo			1720997		eleffed. 100 DC	nu sought. 100	QCI AC sought.	\$ 50,000	9 /5,000				ş -	ş -	
The control of the				DW17-183	26,101	2/2/2018	No	\$ 70,000	\$ 70,000	\$ 90,160			\$ -	\$ -	- topoe name at the or year along enough their enough to the analysis of
## Company of the property of				DW17-183	26,101	2/2/2018	No	\$ -	\$ 32,034						Truck replaced when transmission failed rather than repair transmission on a 10 year old truck
Control Cont			1702097	- D	C LNLD	1 1, N	OCDAC L	20.000		\$ 6,242	Merrimack	No			D.C. I
Section   Process   Sect			1702307	_				20,000	Ÿ						
March   Marc			1702307												
## Advanced   March 1997   1998   199	Pipe Saws (5)	Pipe Saws (5)								7 .,					·
Contract Control of Market															
Miles   Mile								\$ 75,000					\$ 29.17	\$ 1 Q2F	Billing from final work on 16 DW not carried over in original hydrot
Column   C		8			, .			\$ -					g 20.17	g 1,033	8
R.   Washing			1713734		,					\$ 21,287		No			
Marie Control of the Control of th									Paid for by SRE	\$ 176.829	Merrimack	Yes	\$ 28.17	\$ 4.981	Charges are for Internal engineering, OH, Union Labor, truck and AFDUC. These expenses are not eligible
March   Marc			1601365, 1701991	DW15-046	25,774	4/13/2015		\$ -	*	* ********			e		SRF funding.
See A short from 1 share from 1			1701000	DW/17 102	26 101	2/2/2019		\$ 1,100,000		e 4,000	NT 1	37	s -		
March Advance From   Turn Control Service And Servic						- / - /	- 10				- 1100-1411	Yes	\$ 29.82 \$ 29.82		
March & Colon Parts															
More A white Deep 1					26,101		No					Yes	\$ 29.82		
September   Part   Application   Part   Application   Part   Pa				_	,				\$ 11,200						
Scheele Colora Deep Colora Scheele Colora Deep Colora Scheele Colora Deep Colora Scheele Colora Deep C			1718679	DW17-183	26,101	2/2/2018	No		\$ 44.561	4	Nashua	Yes	\$ 29.82	\$ 12	
Scheller Sch			1700310	DW17-183	26,101	2/2/2018	No		\$ 44,301	+	Nashua	Yes	\$ 29.82	\$ 294	
No.   A challe   No.   No.   A challe   No.   No.   A challe   No.   N						2/2/2018	No						\$ 29.82		
Solita & Column   Transfer   Solita & Column   Transfer   Solita & Column   Transfer															
Section As Charles Prince					,	- / - /									
Second Analysis   Second Analysis   Second New York   Second Program   Second Analysis   Second Program   Second Analysis   Second Program															
Mathew Notes Substitute   Mathew New Notes   Mathew Not			1718683	DW17-183	26,101		No			\$ 1,000					
Achas from Vision United Stores (Company)   Achas (Company)   Ac	- 11	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
## Part	roject Amb	herst Street Area Water Main Replacement Project													
Anther Some Protest Florate Florate Service surrest annother some state of the control of the co	Amherst Street Project - Amherst Street water main replacement	Replace 3.150 LF of 6" Unlined CL Water main on Amberst Street	1601318 1702928	DW16-236	25 887	42486	Partial		Paid for by SRF	\$ 923,785	Nachua				Charges are for Internal engineering OH Union Labor, truck and AFDUC. These expenses are not eligible
Andrew Steven Presery Preserve P			,						Paid for by SRF	\$ 6,058		No			SRF funding. \$767,357 in 2017 construction costs were financed with SRF loan funds. The principal and
Secrit   S			1601321, 1702932	DW16-236	25,887		Yes	\$ 75,000		\$ 1,763					interest associated with this loan amount must be recovered as part of the 2018 QCPAC surcharge.
Paramises Regulation   Paramises Regulated Regulation   Paramises Regulated Regulation   Paramises Regulated Regul								+,							
Column   C			503914, 1602428, 170149							\$ 163,831	Plaistow	Yes	\$ 28.39		
An Absolute Mideal Blade Design   Registers 25% for of \$A/C with Culff Transfer services from A/C to DrI Dodge M.						me congre - re	- Corres conduc								
Second Second Support	Amherst Mack Hill & Dodge														
Seecon Projects   TBD   Spring inflation counts explacement in conditions with every replacement in condition with every replacement in		Replace 25 Yr old below ground confined space booster station w/above ground station						\$ 550,000	\$ -						
Second Second   Reglated SSF   1 of a such C   with a sub DPC   1702879   Will 188   \$2,010   27/2978   No.   \$ 0.000   \$ 0.	Show Station Opgrade - Add Std 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.
Loved Street   Replaced 251 Lef of sinch Cl with 6 in DIVCL   170075   DIVT-18   Ze/J01   2/2/2018   No   \$ 2,000   \$ 27,000   \$ 27,000   \$ 2,00			1702070	DW/17 102	26 101	2/2/2010	N-	\$ 400,000		Q 101.151	Nach	V	g 20.02	e 2612	\$20,000 for final agging in 2018
Cream Steven   Reglated 30 IF of 4 whol C 1 with 8 in DIPCL   1705/72   DIVI-18   26,010   27/27/918   No.   S   27/20															
Read Stort   Replaced \$30 F of 8 and \$1 Card \$8 and \$1 Card \$8 and \$1 Card \$								<u> </u>							
Process   Replaced   30   47   42   45   45   45   45   45   45   45									\$ 75,000	\$ 78,412		Yes	\$ 29.82	\$ 2,338	Including paving
Company   Comp															
Temple Street   Replaced 375 LF of 8 neb Cl with frieds 11DFE and 8 neb DIPC.   1600381,170560   1500381,1									\$ 51,000		- 1110111111				
Section   Add   180   1 of 2 inch C   100   Add   180   Add   180   1 of 2 inch C   100   Add   180   Add   180   1 of 2 inch C   180   Add   180   Add   180   180   Add   180   180   Add   180									\$ 151.093						
Water main looping   Close loop on 101 A end of main to beyond Troval and loop onto Troval 1 and loop on the Troval 1 and loop onto Troval 1 and loop on the Troval 1 and loop onto Troval 1 and loop onto Troval 2 and loop onto T		Replaced 280 LF of 2 inch CI with 4 inch PVC	,												
Old Nashua Rd. RR. Crossing @ Route 101A   1703646   DW17-183   26,101   27/2/2018   No   S   8,334   Amberst   Yes   S   30.30   S   253											_				
Part of Project deferred until 2018   Part of Part of Project deferred until 2018   Part of		3.000 100 0 00 1011 010 01 1000 10 00 00 0	1702444					\$ 300,000	\$ -	e 0.251	A 1	87	e 20.20	e 050	
Buchanan Avenue Grele Ave Main Replacement - Froject - Main Replacement - Froject - Main Replacement - Froject - Main Street Area Water Main Replacement - Froject - Main Street Area Water Main Replacement - Froject - Main Street Area Water Main Replacement - Froject - Main Street - Froject - Froject - Main Street - Froject - Froject - Main Street - Froject - Main Street - Froject - Main Street - Froject			1/03646					\$ 400,000	   c	ə 8,534	Amherst	Yes	a 30.30	ş 255	
Replaced 400 LF of 2 inch Steel with 4 inch PVC   1715613   DW17-183   Z6,101   Z/2/2018   No			1702843					400,000		\$ 96.013	Nashiia	Ves	\$ 29.82	\$ 2.863	
Replaced 900 LF of 6 inch Cl with 175 LF of 4 inch and 725 LF of 8 inch DIPCL   1702845   DW17-183   26,101   2/2/2018   No   1   2/2/2018   No								1	2 04,732						
Pratt Street		Replaced 900 LF of 6 inch CI with 175 LF of 4 inch and 725 LF of 8 inch DIPCL													
Aging infrastructure replacement   Aging infrastr									\$ 480,000						
Lincoln Street   Replaced 100 LF of 6 inch CI with 8 in DIPCL   1702841   DW17-183   26,101   2/2/2018     5   152,407   \$ 168,144   Nashua   Yes   \$ 29.82   \$ 5,014   Individual Streets Part of 2017 Main Street Area Water Main Replacement Project deferred to 2017   1702842   DW17-183   26,101   2/2/2018			17/02846	DW17-183	26,101	2/2/2018	No	\$ 220,000	1	\$ 146,106	Nashua	Yes	\$ 29.82	<b>3</b> 4,357	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 No Bord Sought. No QCPAC sought.  Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to side streets ahead of City paving Replace unlined cast iron leads to sid			1702841	DW17_192	26.101	2/2/2018	<u> </u> 	320,000 و		\$ 168 144	Nachua	Voc	\$ 20.82	\$ 5.014	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 Factory Street Replace 12 & 8 in Cl with 640 lf of 16 in CLD1 640 lf Project deferred to 2017 Deferred. No Bond sought. No QCPAC sought.    No Bond sought. No QCPAC sought.   \$ 175,000   \$															
Route 101 Widening, Bedford   NHDOT Project   Sed on the 101 Widening, Bedford   Relocate water main on Route 101   1701891   DW17-183   26,101   2/2/2018   No   \$ 46,200 \$ 45,974   Bedford   Yes \$ 23.19 \$ 1,066   NHDOT project that was added in Spring of 2017	Kinsley Street	Replace unlined cast iron leads to side streets ahead of City paving						\$ 175,000		100,004		100	2 25.02	2 3,231	
Route 101 Widening, Bedford Relocate water main on Route 101 1701891 DW17-183 26,101 2/2/2018 No \$ 46,200 \$ 45,974 Bedford Yes \$ 23.19 \$ 1,066 NHDOT project that was added in Spring of 2017				D	eferred. No Bo	ond sought. No	QCPAC sought.	\$ 250,000	\$ -	<u> </u>					Project deferred to 2018
		,				0/2/200		1					T -		
Route 101 Widening, Bedford Relocated water main along Nashua Road 1702838 DW17-183 26,101 2/2/2018 No \$ 43,100 \$ 43,740 Bedford Yes \$ 23.19 \$ 1,014 NHDOT project that was added in Spring of 2017			*******				- 10	+							
Route 101 Widening, Bedford Relocated water main along Nashua Road 1702838 DW17-183 26,101 2/2/2018 No \$ 43,740 Bedford Yes \$ 23.19 \$ 1,014 NHDOT project that was added in Spring of 2017 Route 101 Widening, Bedford Relocate water main on Bell Hill Road 1702839 DW17-183 26,101 2/2/2018 No \$ 15,400 \$ 53,951 Bedford Yes \$ 23.19 \$ 1,251 NHDOT project that was added in Spring of 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		Amherst	Yes	\$ 30.30		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		2/2/2018		\$ 72,000		\$ 47,336	Merrimack				
Engineering Replacement Vehicles (2)	Replace 2 Vehicles  Distribution Model Phase 2	1702831, 1702832	DW14-130		11/7/2014		\$ 64,000 \$ 25,000		\$ -	Merrimack	No			P&I and property taxes recovered in DW16-806 Step Increase
Complete PWW Core System Hydraulic Model PWW-PEU Interconnection - DW Hishway to River						QCPAC sought.	\$ 25,000 \$ 311,500					_	-	Project underway, will not be used and useful in 2017  Deferred to 2018 due to timing of final NHDES permitting
WTP - Conversion to LED Lighting	DW Highway to Merrimack River Booster station <sup>1</sup> WTP - Conversion to LED Lighting					OCPAC sought.	\$ 311,500					_	-	Deferred, staff time not available to complete in 2017
Booster/Well/Chem Feed pump replacements	Booster/Well/Chem Feed pump replacements		DW14-130		11/7/2014		\$ 60,000	Pd 2014 Bonds		Derry	Yes	\$ 33.23	e	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	DW14-130 DW17-183		2/2/2018	No	\$ 60,000		\$ 41,386	Derry	Yes	\$ 33.23	9 -	
Booster/Well/Chem Feed pump replacements	Replace VFD on Twin Ridge Well	1701888	DW17-183		2/2/2018	No.	1,	\$ 2.089	\$ 2.089	Plaistow	Yes	\$ 28.39		Budgeted under Booster/Well/Chem Feed pump replacement
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS	.,,,,,,,,			ond sought. No	OCPAC sought.	\$ 15,000	\$ -	7,000					Budget place holder. No treatment system installs/replacement YTD
Misc. Structural Improvements	Misc. Structural Improvements		Γ	Deferred. No F	ond 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		2/2/2018	No	\$ 60,000							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		2/2/2018	No	\$ 35,000			Nashua	No			Retired #49
Replace vehicle #204	Replace 6 year old truck with 175,260 miles	1800481	DW17-183		2/2/2018	No	\$ 60,000		\$ 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	4000470	DW17-183	26,101	2/2/2018	No	\$ 35,000	\$ 35,000	0 10 (70	27.1	N. 7			Retired #63
Replace Vehicle #44 New Vehicle #119	Replace 8 year old truck with over 130,000 miles  New Water Supply Vehicle, no replacement	1800479 1704173	DW17-183	26,101	2/2/2018	No	Te .	\$ 63.038	\$ 42,678 \$ 62,282	Nashua Nashua	No No	+		Retired #44 No vehicle retired.
Replace Vehicle #99	Replace 11 year old truck with over 140,000 miles	1800480	DW17-183		2/2/2018	No No	\$ -	\$ 05,038	\$ 62,282 \$ 27.323	Nashua	No		1	Retired #99
Replace Vehicle #46	Add utility body to vehicle #46	1703002	DW17-183		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		2/2/2018	No	\$ 75,000	\$ 75,000		Nashua	Yes	\$ 29.83	\$ 1364	Design cost for WTP crane and door. Door is used and useful.
Merrimack River Station pump/motor rebuild	Merrimack River Station pump/motor rebuild	1701007, 1713001	DW17-183	26,101	2/2/2018	No	\$ 75,000		13,731	141011411	100	27.02	\$ -	Project deferred until 2018
	quipment purchases				-,-,	- 10	\$ 25,000							
Misc. equipment purchases	Purchase New Electric Muilti-Meter	1715547	DW17-183	26,101	2/2/2018	No		\$ 1,500	\$ 1,500	Nashua	No		S -	Budgeted under WTP Misc equipment purchased
THM precursor control at Bon Terrain Tank	Install mixer in Bon Terrain Tank	1703024	DW17-183		2/2/2018	No		\$ 2,600		Amherst	Yes	\$ 30.30	\$ 79	Budgeted under WTP Misc equipment 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	Budgeted under WTP Misc equipment 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	Budgeted under WTP Misc equipment purchased
Purchase new lab equipment	Purchase new lab equipment		Γ	Deferred. No E	ond sought. No	QCPAC sought.	\$ 15,000	\$ -						
Purchase new lab equipment	Hanna Titrator	1707187	DW17-183	26,101	2/2/2018	No		\$ 5,900	\$ 5,900	Nashua	No			Budgeted under Purchase new lab equipment
WTP structural/HVAC	Replaced Compressor on A/C Unit FWPS	1708347	DW17-183		2/2/2018	No	\$ 10,000		\$ 5,568	Nashua	Yes	\$ 29.82	\$ 166	
Misc Security upgrades for remote facilities	Misc. Fencing/Security Projects					QCPAC sought.	\$ 25,000							Budget place holder. No Misc. Fencing/Security Projects YTD
Complete Fencing around WTP for Security	Perimeter fencing at WTP	1706963			2/2/2018		\$ 80,000		\$ 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					QCPAC sought.	\$ 25,000							Deferred
Misc. SCADA Electrical upgrades	Misc. SCADA Electrical	.=				QCPAC sought.	\$ 30,000	7		701 I	**			Budget Place Holde.r See below for actual projects
Misc. SCADA Electrical upgrades Misc. SCADA Electrical upgrades	Valleyfield - Install Cellular Communication	1701886	DW17-183				\$ -	\$ 5,000	,	Plaistow	Yes	\$ 28.39 \$ 23.19		Budgeted under Misc. SCADA Electrical upgrades
	Install Cellular Communication, Cabot Preserve	1716549 1701899	DW17-183		2/2/2018 2/2/2018	No			\$ 2,642 \$ 47,332	Bedford	Yes	\$ 33.23		Project added to allow remote monitoring of water system
Hi-Lo Generator  Armory Street Booster Pump VFD replacements	Hi-Lo Generator  Replace failed VFD's on Armory Street Booster Pumps	1701899 1719862	DW17-183 DW17-183			No No	e	\$ 23,500	9 71,332	Derry Nashua	Yes Yes	\$ 33.23 \$ 29.82		Permanent standby generator added on site at this Community Water System.  Budgeted under Misc, SCADA Electrical ungrades
Misc. SCADA Electrical upgrades	Replace failed VFDs on Armory Street Booster Pumps  Replace all SCADA Computers and Upgrade System	1701889	DW17-183		2/2/2018	No No	\$ -	\$ 23,500 \$ 43,000		Nashua	Yes	\$ 29.82		Unbudgeted. Security upgrades required hardware replacement
Well Rehabilitations (3)	Well Rehabilitations	1701002			, , ,	OCPAC sought.	\$ 60,000		\$ 19,790	inasiiua	165	g 27.02	\$ 550	Budget place holder. No Well Rehabilitation Projects YTD
WTP Closed Circuit Camera replacement/improvements	Closed Circuit Camera replacement/improvements					QCPAC sought.	\$ 60,000	1.7					-	Deferred
WTP - Replace storefront glass, renovate WTP reception	Replace storefront glass, renovate WTP reception					QCPAC sought.	\$ 50,000							Deferred
Office renovation-conference room	Office renovation-conference room					QCPAC sought.	\$ 50,000	\$ -						Deferred
Water Supply - Watershed Public Education	Fertilization / Pesticide - Phase 1		Γ	Deferred. No F	ond sought. No	QCPAC sought.	\$ 20,000	\$ -						Will not be completed until 2018
Stormwater BMP Notifications and Community Education	Stormwater BMP Notifications and Community Education					QCPAC sought.	\$ 12,000	\$ -						Will not be completed until 2018
St. Joseph's Land Purchase	Watershed protection	1503675		26,101					\$ 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		2/2/2018		\$ 10,000							Original estimate did not include bullet proof glass and other security features
Adjustable Desk Tops	Accommodate back issues	1713759	DW17-183		2/2/2018	No	\$ -	\$ 6,088		Merrimack				
Asset Management - Phase 3	Asset Management 2016 Carry over	1600061	DW17-183		2/2/2018		\$ 200,000	7,	. ,	Merrimack	100	\$ 28.17	\$ 4,552	
Conversion to R.A.M. Fixed Assets carry-over	Conversion to R.A.M. Fixed Assets carry-over Firewall replacement	1707349 1702081	DW17-183 DW17-183		2/2/2018 2/2/2018	No No	\$ 11,000 \$ 50,000			Merrimack Merrimack		\$ -	\$ -	
Asset Management - Phase 4	Continue progress on Asset Management implementation	1702081	DW17-183		2/2/2018	No No	\$ 50,000	y 0.03,1=0	, ., .	Various	No Yes	\$ 20.00	\$ 14100	Reduced level of work than budgeted due to staff time diverted to PFOA response
Asset Management - Phase 4  Click Mobile Upgrade	Upgrade ClickMobile to work on iPads	1700300	DW17-183		2/2/2018	No No	\$ /36,000 \$ 150,000			v anous	1 68	g 20.83	\$ 14,198	2016 Work completed. 2017 work deferred until 2018
Click Mobile Upgrade	Purchase iPADs for ClickMobile Platform	1707189	DW17-183		2/2/2018	No	\$ -	\$ 5,160		Various	Yes	\$ 28.85	\$ 149	Budgeted 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	Various	Yes	\$ 28.85	4	L PA
	Upgrade intoview to the fatest version			26 101	- /- /	No		8 20,420					e	Deferred
Exchange Upgrade	Upgrade Exchange to the latest version		DW17-183	26,101	2/2/2018	INO	\$ 31,000	\$ 20,420					9 -	Deterred
Retention Archive Solution	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files		Γ	eferred. No F	ond sought. No	QCPAC sought.	\$ 80,000	\$ -					9 -	Deferred until 2018
Retention Archive Solution Munis Enhancements	Upgrade Exchange to the latest version		1	Deferred. No F Deferred. No F	Sond sought. No Sond sought. No	QCPAC sought.	\$ 80,000 \$ 180,000	\$ - \$ -					, -	Deferred until 2018 Waiting for vender acceptance of software enhancements
Retention Archive Solution Munis Enhancements Miscellaneous Software	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central		I I I	Deferred. No E Deferred. No E Deferred. No E	Sond sought. No Sond sought. No Sond sought. No	QCPAC sought. QCPAC sought. QCPAC sought.	\$ 80,000	\$ - \$ - \$ -					9 -	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder.
Retention Archive Solution Munis Enhancements Miscellaneous Software Miscellaneous Software	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central Upgrade Synergyn/WAM		DW17-183	Deferred. No F Deferred. No F Deferred. No F 26,101	Sond sought. No Sond sought. No 2/2/2018	QCPAC sought. QCPAC sought. QCPAC sought. No	\$ 80,000 \$ 180,000	\$ - \$ - \$ 10,386					-	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgeted for under Misc. Software
Retention Archive Solution Munis Enhancements Miscellaneous Software	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central	1707208	DW17-183	Deferred. No E Deferred. No E Deferred. No E	Sond sought. No Sond sought. No Sond sought. No	QCPAC sought. QCPAC sought. QCPAC sought. No	\$ 80,000 \$ 180,000	\$ - \$ - \$ -	\$ 5,400	Merrimack	No		-	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder.
Retention Archive Solution  Munis Enhancements  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central Upgrade Synergyn/WAM Backflow Data Collection software Munis - Enhancements - SDS Replacement	1707208 1502439	DW17-183 DW17-183 DW17-183	Deferred. No F Deferred. No F Deferred. No E 26,101 26,101 26,101	Sond sought. No Sond sought. No Sond sought. No 2/2/2018 2/2/2018 2/2/2018	QCPAC sought. QCPAC sought. QCPAC sought. QCPAC sought. No No	\$ 80,000 \$ 180,000	\$ - \$ - \$ 10,386	\$ 18,700	Merrimack	No		-	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgeted for under Misc. Software Budgeted for under Misc. Software Budgeted for under Misc. Software
Retention Archive Solution  Munis Enhancements Miscellaneous Software	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central Upgrade Synergyn/WAM		DW17-183 DW17-183 DW17-183 DW17-183	Deferred. No F Deferred. No F Deferred. No F 26,101 26,101 26,101 26,101	Sond sought. No Sond sought. No Sond sought. No 2/2/2018 2/2/2018 2/2/2018 2/2/2018	QCPAC sought. QCPAC sought. QCPAC sought. No No No	\$ 80,000 \$ 180,000 \$ 15,000 \$ - \$ -	\$ - \$ - \$ - \$ 10,386 \$ 6,700	\$ 18,700	Merrimack Merrimack Merrimack	No		-	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgeted for under Misc. Software Budgeted for under Misc. Software Budgeted for under Misc. Software Required to make website ADA compliant
Retention Archive Solution  Munis Enhancements  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Hardware  Miscellaneous Hardware	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central  Upgrade Synergyn/WAM Backflow Data Collection software  Munis - Enhancements - SDS Replacement PDF Converter Software	1707208 1502439 1614048	DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	Deferred. No F Deferred. No F Deferred. No F 26,101 26,101 26,101 26,101 26,101 Deferred. No F	ond sought. No sond sought. No sond sought. No 2/2/2018 2/2/2018 2/2/2018 2/2/2018 3 ond sought. No	QCPAC sought. QCPAC sought. QCPAC sought. No No No No QCPAC sought.	\$ 80,000 \$ 180,000	\$ - \$ - \$ - \$ 10,386 \$ 6,700	\$ 18,700 \$ 3,994	Merrimack Merrimack	No No		-	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgeted for under Misc. Software Budgeted for under Misc. Software Budgeted for under Misc. Software
Retention Archive Solution  Munis Enhancements  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Hardware  Miscellaneous Hardware  Miscellaneous Hardware	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central Upgrade Synergyn/WAM Backflow Data Collection software Munis - Enhancements - SDS Replacement PDF Converter Software LT06 Tape Drive #2	1707208 1502439 1614048	DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	Deferred. No E Deferred. No E Deferred. No E Deferred. No E 26,101 26,101 26,101 26,101 Deferred. No E 26,101	ond sought. No sond sought. No sond sought. No 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	QCPAC sought. QCPAC sought. QCPAC sought. No No No No OCPAC sought. No	\$ 80,000 \$ 180,000 \$ 15,000 \$ - \$ -	\$ - \$ - \$ - \$ 10,386 \$ 6,700	\$ 18,700 \$ 3,994 \$ 19,395	Merrimack Merrimack Merrimack	No No No		-	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgeted for under Misc. Software Budgeted for under Misc. Software Budgeted for under Misc. Software Required to make website ADA compliant
Retention Archive Solution  Munis Enhancements Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Hardware Miscellaneous Hardware Miscellaneous Hardware Network Infrastructure	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central Upgrade Synergyn/WAM Backflow Data Collection offware Munis - Enhancements - SDS Replacement PDF Converter Software  L'T06 Tape Drive #2 Replacement of virtual servers and network switch stack. Existing hardware no longer supported.	1707208 1502439 1614048	DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	Deferred. No For Deferr	Sond sought. No Sond sought. No Sond sought. No 2/2/2018 2/2/2018 2/2/2018 2/2/2018 Sond sought. No 2/2/2018 2/2/2018 2/2/2018	QCPAC sought. QCPAC sought. QCPAC sought. No No No No No No No OCPAC sought. No	\$ 80,000 \$ 180,000 \$ 15,000 \$ - \$ - \$ -	\$ - \$ - \$ - \$ 10,386 \$ 6,700	\$ 18,700 \$ 3,994 \$ 19,395	Merrimack Merrimack	No No No		-	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgeted for under Misc. Software Required to make website ADA compliant Budget place holder. No Misc. Hardware purchased YTD
Retention Archive Solution  Munis Enhancements  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Hardware  Miscellaneous Hardware  Miscellaneous Hardware	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central Upgrade Synergyn/WAM Backflow Data Collection software Munis - Enhancements - SDS Replacement PDF Converter Software LT06 Tape Drive #2	1707208 1502439 1614048	DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	Deferred. No E Deferr	Sond sought. No sond sought. No sond sought. No 2/2/2018 2/2/2018 2/2/2018 2/2/2018 3 sond sought. No 2/2/2018 3 sond sought. No	QCPAC sought. QCPAC sought. QCPAC sought. No No No No OCPAC sought. No	\$ 80,000 \$ 180,000 \$ 15,000 \$ - \$ -	\$ - \$ - \$ - \$ 10,386 \$ 6,700	\$ 18,700 \$ 3,994 \$ 19,395	Merrimack Merrimack Merrimack	No No No		-	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgeted for under Misc. Software Budgeted for under Misc. Software Budgeted for under Misc. Software Required to make website ADA compliant
Retention Archive Solution  Munis Enhancements Miscellaneous Software Miscellaneous Hardware Miscellaneous Hardware Miscellaneous Hardware Miscellaneous Hardware Miscellaneous Hardware LIMS upgrade	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central Upgrade Synergyn/WAM Backflow Data Collection software Munis - Enhancements - SDS Replacement PDF Converter Software  LT06 Tape Drive #2 Replacement of virtual servers and network switch stack. Existing hardware no longer supported. Upgrade to Laboratory Information Systems software	1707208 1502439 1614048	DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	Deferred. No For Seferred of S	Sond sought. No sond sought. No sond sought. No sond sought. No 2/2/2018 2/	QCPAC sought. QCPAC sought. QCPAC sought. No No No No No No QCPAC sought. No OCPAC sought. No QCPAC sought. No	\$ 80,000 \$ 180,000 \$ 15,000 \$ - \$ - \$ - \$ -	\$ - \$ - \$ 10,386 \$ 6,700 \$ - \$ -	\$ 18,700 \$ 3,994 \$ 19,395	Merrimack Merrimack Merrimack	No No No		-	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgeted for under Misc. Software Required to make website ADA compliant Budget place holder. No Misc. Hardware purchased YTD  Release of new version delayed until 2018
Retention Archive Solution  Munis Enhancements  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Software  Miscellaneous Hardware  Miscellaneous Hardware  Miscellaneous Hardware  Miscellaneous Hardware  Miscellaneous Hardware  LIMS upgrade  Badge Swipe for IT Area	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central  Upgrade Synergyn/WAM Backflow Data Collection software Munis - Enhancements - SDS Replacement PDF Converter Software  LT06 Tape Drive #2  Replacement of virtual servers and network switch stack. Existing hardware no longer supported.  Upgrade to Laboratory Information Systems software Allow for tracking of traffic after hours into IT area - Security Track Dig safe work order time electronically Update Website. Enhance customer useability	1707208 1502439 1614048	DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	peferred. No Foreferred.	Sond sought. No sond sought. No sond sought. No sond sought. No 2/2/2018 2/	QCPAC sought. QCPAC sought. QCPAC sought. No No No No No OCPAC sought. No QCPAC sought. No QCPAC sought. QCPAC sought. QCPAC sought. QCPAC sought. QCPAC sought.	\$ 80,000 \$ 180,000 \$ 15,000 \$ - \$ - \$ - \$ 18,000 \$ 2,000	\$ - \$ - \$ 10,386 \$ 6,700 \$ - \$ - \$ - \$ -	\$ 18,700 \$ 3,994 \$ 19,395 \$ 113,424	Merrimack Merrimack Merrimack Merrimack	No No No No		-	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgeted for under Misc. Software Required to make website ADA compliant Budget place holder. No Misc. Hardware purchased YTD  Release of new version delayed until 2018 Project cancelled for 2017
Retention Archive Solution  Munis Enhancements Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Hardware Miscellaneous Hardware Miscellaneous Hardware Miscellaneous Hardware Network Infrastructure I.I.MS upgrade Badge Swipe for IT Area DigsSafe into Click	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central Upgrade Synergyn/WAM Backflow Data Collection software Munis - Enhancements - SDS Replacement PDF Converter Software  L'T06 Tape Drive #2  Replacement of virtual servers and network switch stack. Existing hardware no longer supported. Upgrade to Laboratory Information Systems software  Allow for tracking of traffic after hours into IT area - Security Track Dig safe work order time electronically	1707208 1502439 1614048 1617689 1716547	DW17-183	peferred. No Foreferred.	Sond sought. No sond sought. No cond sought. No 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018 2/2/2018	QCPAC sought. QCPAC sought. QCPAC sought. No No No No No OCPAC sought. No QCPAC sought. No QCPAC sought. QCPAC sought. QCPAC sought. QCPAC sought. QCPAC sought.	\$ 80,000 \$ 180,000 \$ 15,000 \$ - \$ - \$ - \$ 18,000 \$ 2,000 \$ 2,000	\$ - \$ - \$ 10,386 \$ 6,700 \$ - \$ - \$ - \$ -	\$ 18,700 \$ 3,994 \$ 19,395 \$ 113,424 \$ 13,250	Merrimack Merrimack Merrimack Merrimack	No No No No		-	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgeted for under Misc. Software Required to make website ADA compliant Budget place holder. No Misc. Hardware purchased YTD  Release of new version delayed until 2018 Project cancelled for 2017
Retention Archive Solution  Munis Enhancements Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Hardware Digsafe into Cick Website Upgrades & Updates TT Security Project Physical Server for Autodesk Revit	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central  Upgrade Synergyn/WAM Backflow Data Collection software Munis - Enhancements - SDS Replacement PDF Converter Software  LT06 Tape Drive #2  Replacement of virtual servers and network switch stack. Existing hardware no longer supported.  Upgrade to Laboratory Information Systems software Allow for tracking of traffic after hours into IT area - Security Track Dig safe work order time electronically Update Website. Enhance customer useability	1707208 1502439 1614048 1617689 1716547	DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183 DW17-183	Deferred. No Experience No Exp	Sound sought. No.	QCPAC sought. QCPAC sought. QCPAC sought. No No No No No No OCPAC sought. No OCPAC sought. No No QCPAC sought. No QCPAC sought.	\$ 80,000 \$ 180,000 \$ 15,000 \$ - \$ - \$ 18,000 \$ 2,000 \$ 2,000 \$ 36,000 \$ 36,000 \$ 8 8,000	\$ - \$ - \$ 10,386 \$ 6,700 \$ - \$ - \$ - \$ - \$ - \$ 21,700 \$ 40,500 \$ -	\$ 18,700 \$ 3,994 \$ 19,395 \$ 113,424 \$ 13,250	Merrimack Merrimack Merrimack Merrimack Merrimack Merrimack	No No No No		\$ -	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budget place holder. Budgeted for under Misc. Software Required to make website ADA compliant Budget place holder. No Misc. Hardware purchased YTD  Release of new version delayed until 2018 Project cancelled for 2017 Project cancelled for 2017 Evaluation of IT infrastructure for security Deferred
Retention Archive Solution  Munis Enhancements Miscellaneous Software Miscellaneous Hardware Miscellaneous Hardware Miscellaneous Hardware Miscellaneous Hardware Miscellaneous Hardware Network Infrastructure  LIMS upgrade  Badge Swipe for IT Area DigsSafe into Click Website Upgrades & Updates IT Security Project Physical Server for Autodesk Revit Physical Server for Pearl	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central  Upgrade Synergyn/WAM Backflow Data Collection software Munis - Enhancements - SDS Replacement PDF Converter Software  LT06 Tape Drive #2  Replacement of virtual servers and network switch stack. Existing hardware no longer supported.  Upgrade to Laboratory Information Systems software Allow for tracking of traffic after hours into IT area - Security  Track Dig safe work order time electronically Update Website. Enhance customer useability Update Website. Enhance customer useability ISO 27001 Equivalency Project	1707208 1502439 1614048 1617689 1716547	DW17-183	Deferred. No E Deferr	Sound sought. No.	QCPAC sought. QCPAC sought. QCPAC sought. No No No No No OCPAC sought. No OCPAC sought. No No QCPAC sought.	\$ 80,000 \$ 180,000 \$ 15,000 \$ - \$ - \$ - \$ 18,000 \$ 2,000 \$ 2,000 \$ 36,000 \$ 36,000	\$ - \$ - \$ 10,386 \$ 6,700 \$ - \$ - \$ - \$ - \$ 21,700 \$ 40,500 \$ -	\$ 18,700 \$ 3,994 \$ 19,395 \$ 113,424 \$ 13,250	Merrimack Merrimack Merrimack Merrimack Merrimack Merrimack	No No No No		\$ - \$ -	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budgeted for under Misc. Software Required to make website ADA compliant Budget place holder. No Misc. Hardware purchased YTD  Release of new version delayed until 2018 Project cancelled for 2017 Project cancelled for 2017 Project cancelled for 2017 Evaluation of IT infrastructure for security Deferred
Retention Archive Solution  Munis Enhancements Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Software Miscellaneous Hardware Digsafe into Cick Website Upgrades & Updates TT Security Project Physical Server for Autodesk Revit	Upgrade Exchange to the latest version Infrastructure to Archive older stagnant files Bill prints/forms, Forms import, Click-Munis import, CSS and Dashboard/Central  Upgrade Synergyn/WAM Backflow Data Collection software Munis - Enhancements - SDS Replacement PDF Converter Software  LT06 Tape Drive #2  Replacement of virtual servers and network switch stack. Existing hardware no longer supported.  Upgrade to Laboratory Information Systems software Allow for tracking of traffic after hours into IT area - Security Track Dig safe work order time electronically Update Website. Enhance customer useability	1707208 1502439 1614048 1617689 1716547	Company   Comp	eferred. No F  eferred. No F  eferred. No F  eferred. No F  26,101  26,101  26,101  26,101  26,101  26,101  26,101  26,101  26,101  26,101  26,101  26,101  26,101  26,101  26,101  Eferred. No F	Sound sought. No.	QCPAC sought. QCPAC sought. QCPAC sought. No No No No No QCPAC sought. No QCPAC sought. No QCPAC sought. QCPAC sought. QCPAC sought. QCPAC sought. QCPAC sought. QCPAC sought. No No QCPAC sought. Partial	\$ 80,000 \$ 180,000 \$ 15,000 \$ - \$ - \$ 18,000 \$ 2,000 \$ 2,000 \$ 36,000 \$ 36,000 \$ 8 8,000	\$ - \$ - \$ 10,386 \$ 6,700 \$ - \$ - \$ - \$ - \$ - \$ 21,700 \$ 40,500 \$ -	\$ 18,700 \$ 3,994 \$ 19,395 \$ 113,424 \$ 31,555	Merrimack Merrimack Merrimack Merrimack Merrimack Merrimack	No No No No No		\$ - \$	Deferred until 2018 Waiting for vender acceptance of software enhancements Budget place holder. Budget place holder. Budgeted for under Misc. Software Required to make website ADA compliant Budget place holder. No Misc. Hardware purchased YTD  Release of new version delayed until 2018 Project cancelled for 2017 Project cancelled for 2017 Evaluation of IT infrastructure for security Deferred

 Total Projected 2017 PWW Capital Ex
 9,729,000
 4,163,760
 6,058,766

 Amount to be funded with April 2018 Bond issue - Amount to be funded with Amherst Street Project SRF loan - 767,357
 5,291,409

Projected Property Tax - \$ 122,079

<sup>1.</sup> Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of 6.60/1000

					Estimated	Estimated	Estimated					QCPAC Eligible	
Project Name/Description	Project Description	Work Order #	Financing Docket No.	Approved Pro Budgeted Amount	oject Cost as of 6/30/2018	Project Cost as of 9/30/2018	Project Cost as of 11/30/2018	Final Project cost as of 12/31/2018	Community	Taxable	Tax Rate (1)	Property Tax Expense	Explanation for Change/Addition/Deletion since 1/30/2018
,	, ,	1708351 &					, ,						Additional labor, metal and other hardware to properly outfit the truck. Project reduced by \$16,000 for trade
Replace Forman Truck	Existing Truck has been a safety and maintenance problem	1813525	2019 Docket	\$ 90,000 \$	97,685 46,000	\$ 120,756 \$ 46,000	\$ 120,756 \$ 37,403	\$ 92,018 \$ 40,850	Merrimack	No	\$ 28.92	\$ -	in value.
Single Family New Services Renewed Services	Single Family, Owner Build, New Homes Replacement of failed services	20 workorders workorders	2019 Docket 2019 Docket	\$ 46,000 \$ \$ 92,000 \$	92,000	\$ 46,000 \$ 37,758			Various Various	Yes Yes	\$ 28.40 \$ 28.40		0 10 New Services installed in 2018 8 18 failed services replaced in 2018.
Hydrants	Replacement of non functional hydrants (Run rate) (8 YTD)	30 & 31	2019 Docket	\$ 50,000 \$	50,000	\$ 50,000	\$ 45,000	\$ 35,560	Various	Yes	\$ 28.40	. ,	8 failed hydrants replaced in 2018.
Valve Replacements	Replacement of Failed Gate Valves	workorders 12 & 13	2019 Docket	\$ 30,000 \$	30,000	\$ 20,000			Various	Yes	\$ 28.40	\$ 1,010 \$ 400	0 5 failed gate valves replaced in 2018.
Replace failed meter reading radios	Replace out of warrantee failed radio meter readers	54 workorders	2019 Docket	\$ 50,000 \$	50,000	\$ 50,000	\$ 60,000	\$ 46,153	Various	Yes	\$ 28.40		1 602 failed radios replaced in 2018.
New Meters (growth) 5/8"-2" (CORE & CWS)	New meters for new customers.  Replace High lead brass meter with new no lead brass meter (2071 YTD)	50 workorders	2019 Docket	\$ 114,000 \$	114,000	,		224,002	Various	Yes	\$ 28.40	\$ -	2,303 new meters installed in 2018. The new meters installed were for new customers and also to replace
New Meters for Lead Meter exchanges (PWW-CORE & CWS) 5/8"-6" Ferromagnetic Pipe locators (3)	Ongoing small equipment replacement - run rate	50 workorders	2019 Docket 2019 Docket	\$ 532,000 \$ \$ 10,000 \$	532,000 10,000	\$ 360,000 \$ 10,000	\$ 340,000 \$ -	\$ 326,902 \$ -	Various Merrimack	Yes No	\$ 28.40 \$ 28.92	\$ 9,28° \$ -	4 meters that had lead content in excess of 0.25% by weight of the brass meter body.  Purchase deferred until 2019
Service Truck replacement (#76)	Replace 2008 Pick up with 156,000+ miles	1900417	2019 Docket	\$ 60,000 \$	60,000	\$ 60,000	\$ 61,905	\$ 61,905	Merrimack	No	\$ 28.92	\$ -	
1 Service Truck - New Replacement of Meter Supervisor Truck (#14)	Service Truck for 1 new ops employees  Replace 7 year old pick up with 167,000+ miles with small SUV	1900416 1825491	2019 Docket 2019 Docket	\$ 35,000 \$ \$ 28,000 \$	35,000 28,000	\$ 35,000 \$ 28,000			Merrimack Merrimack	No No	\$ 28.92 \$ 28.92	<u> </u>	Vehicle spec was changed to Heavy Duty Quad Cab Project reduced by \$6,000 for trade in value.
Replace Valve/vac trailer unit	Existing unit has reach the end of its usable life	1623491	2019 Docket 2019 Docket	\$ 65,000 \$	65,000		\$ 31,363	\$ 25,363	Merrimack	No	\$ 28.92	ş -	Project deferred until 2019
Trimble units for Meter Reading (6 units)	Replace CE meter reading equipment	1830144	2019 Docket	\$ 39,000 \$	39,000	\$ 48,000			Merrimack	No	\$ 28.92	ş -	
Pipe Saws (5) Metal Detectors (6)	Ongoing small equipment replacement - run rate Ongoing small equipment replacement - run rate	1819287	2019 Docket 2019 Docket	\$ 6,000 \$ \$ 7,000 \$	6,000 7.000			\$ 5,900	Merrimack Merrimack	No No	\$ 28.92 \$ 28.92	\$ - \$ -	Purchase deferred until 2019
Add Air Conditioning to Mechanics Bay	Security Project	1805724	2019 Docket	\$ 52,000 \$	62,641	\$ 62,641	•	\$ 62,641	Merrimack	Yes	\$ 28.92	\$ 1,81	2 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	\$ 28.92	\$ -	
Vehicle Lift Replacement Utility Truck	Replace 9000lb Ammco lift with new 12000lb Rotary Lift in Mechanie's Bay Replace Vehicle #4 2011 F-350 w/ 140,000 miles and higher maintenance needs	1805726	2019 Docket 2019 Docket	\$ - \$	-	\$ 7,974 \$ 65,000			Merrimack Merrimack	Yes No	\$ 28.92 \$ 28.92	\$ 23 \$	Purchase deferred until 2019
Utility Van	Replace Vehicle #72 2011 Ford E-2500 Van - High mileage & maintenance costs	1826440	2019 Docket	\$ - \$	-	\$ 35,000			Merrimack	No	\$ 28.92	ş -	2019 Capital Budget item moved to 2018
Jtility Van	Replace Vehicle #27 2011 Ford E-2500 Van - High Mileage & maintenance costs	1826439	2019 Docket	\$ - \$	-	\$ 35,000	\$ 31,704		Merrimack	No	\$ 28.92	\$ -	2019 Capital Budget item moved to 2018
Utility Van Road Plates (2)	Replace Vehicle #26 2011 Ford E-2500 Van - high mileage & maintenance costs 8x8 and 8x10 1" Steel Road Plates	1826438 1830146	2019 Docket 2019 Docket	\$ - \$	-	\$ 35,000 \$ 5,500	\$ 31,740 \$ 5,380		Merrimack Merrimack	No No	\$ 28.92 \$ 28.92	\$ - \$	2019 Capital Budget item moved to 2018 2019 Capital Budget item moved to 2018
` '			2017 DOCKEL	\$ 85,000 \$	310,000	\$ 310,000	\$ 310,000	9 3,380			\$ 28.92	-	Original budget done prior to design; increased scope of work to remove all AC water main from Back
Interconnection of BWC (Bedford) to PWW	Interconnection of BWC (Bedford) to PWW	1800734	2019 Docket		510,000	510,000 و	2 210,000	\$ 258,923	Bedford	Yes		\$ 6,41	1 River Rd.
Elm St Monroe Street	Replace 1570 LF of 8 & 6 inch CI with 12 inch DIPCL  Replace 485 LF of 4 inch (HDPE, CI) with 8 inch DIPCL	1812907 1812908	2019 Docket 2019 Docket	\$ 416,000 \$ \$ 122,000 \$	-	\$ - \$ -	\$ - \$ -	\$ -	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ - \$	City Sewer delayed until 2019 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	\$ 27.81	ş -	City Sewer delayed until 2019
Gillis St	Residual paving from prior year main replacement	1812910	2019 Docket	\$ 143,000 \$	66,000		. ,		Nashua	Yes	\$ 27.81		1 Restoration turned over to City of Nashua with multiple utilities contributing
Orange St (Concord St to Lock St) Temple Street	Residual paving from prior year main replacement  Residual paving from prior year main replacement	1812911 1812923	2019 Docket 2019 Docket	\$ 96,000 \$	96,000 20,000	\$ 65,000 \$ 20,000			Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 2,73:	2 Based on revised paving contribution estimate  Residual Paving Costs still outstanding at end of 2018
Buchanan St	Residual paving from prior year main replacement	1800533	2019 Docket	\$ 36,600 \$	36,600	\$ 38,000	\$ 33,330	_	Nashua	Yes	\$ 27.81	\$ 92	
		1813071 &											
Lincoln Ave Nutt St	Residual paving from prior year main replacement  Residual paving from prior year main replacement	1807532 1812912	2019 Docket 2019 Docket	\$ 52,300 \$ \$ 39,600 \$	52,300 39,600	\$ 54,000 \$ 41,000	\$ 70,337 \$ 29,134	\$ 69,988 \$ 29,134	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 1,94 \$ 81	Y I
Circle Ave	Residual paving from prior year main replacement	1812913	2019 Docket	\$ 11,000 \$	11,000	\$ 19,140			Nashua	Yes	\$ 27.81	\$ 25	v .
Pratt St	Residual paving from prior year main replacement	1812914	2019 Docket	\$ 47,000 \$	47,000	\$ 49,000	\$ 46,218		Nashua	Yes	\$ 27.81	\$ 1,28	5
Zellwood Ave Faxon St	Residual paving from prior year main replacement  Residual paving from prior year main replacement	1812915 1812916	2019 Docket 2019 Docket	\$ 25,000 \$ \$ 6,000 \$	25,000 6,000	\$ 27,000 \$ 7,000	\$ 26,076	\$ 26,077	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 72. \$ -	Residual Paving Costs still outstanding at end of 2018
1 axul ot	Residual paving from prior year main replacement	1812917 &	2017 DOCKET	9 0,000 9	0,000	9 7,000	ŷ .	-	rvasiida	103	27.01	-	Residual Faving Costs still Oddstartning at Cita of 2010
Fifield St	Residual paving from prior year main replacement	1806835	2019 Docket	\$ 4,400 \$	4,400	\$ 6,400	\$ 28,673	\$ 59,273	Nashua	Yes	\$ 27.81	\$ 1,64	
Fowell Ave Terrace Street	Residual paving from prior year main replacement Residual paving from prior year main replacement	1807533 1812918	2019 Docket 2019 Docket	\$ 59,400 \$ \$ 5,200 \$	59,400 5,200	. ,	\$ 57,308 \$ -	\$ 57,369	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 1,59. \$ -	Residual Paving Costs still outstanding at end of 2018
Beard St	Residual paving from prior year main replacement	1812919	2019 Docket	\$ 16,100 \$	17,700	,	\$ -	ş -	Nashua	Yes	\$ 27.81	\$ -	Residual Paving Costs still outstanding at end of 2018
Green St	Residual paving from prior year main replacement	1812920	2019 Docket	\$ 3,100 \$	3,100	,		\$ -	Nashua	Yes	\$ 27.81		Residual Paving Costs still outstanding at end of 2018
Warren St Lowell St	Residual paving from prior year main replacement  Residual paving from prior year main replacement	1807535 1812921	2019 Docket 2019 Docket	\$ 11,000 \$ \$ 23,000 \$	11,000 23,000	. ,		\$ - \$ -	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	<u> </u>	Residual Paving Costs still outstanding at end of 2018 Residual Paving Costs still outstanding at end of 2018
Lemon St	Residual paving from prior year main replacement	1812922	2019 Docket	\$ 4,400 \$	4,400		\$ 4,400	\$ -	Nashua	Yes	\$ 27.81	\$ -	Residual Paving Costs still outstanding at end of 2018
Lawndale Ave	Residual paving from prior year main replacement	1900349	2019 Docket				\$ 8,193	4 0,170	Nashua	Yes	\$ 27.81	\$ 22	
Main Street Mulyantity St - Emergency Replacement	Residual paving from prior year main replacement  Residual paving from prior year main replacement	xxxx 1812925	2019 Docket 2019 Docket	\$ 51.700 \$	21.670	\$ 21,670	\$ 6,402 \$ 21,670		Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ - \$ 55	Residual Paving Costs still outstanding at end of 2018  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	\$ 10,896		Nashua	Yes	\$ 27.81	\$ 30:	
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	\$ 27.81	\$ -	Contingent Paving obligation paid
Asset Management - Outside GIS Consulting Services	Asset Management Outside GIS Consulting Services	1800341 1800341	2019 Docket 2019 Docket	\$ 330,000 \$ \$ 73,000 \$	561,000 73,000	\$ 461,000 e	\$ 380,000	\$ 386,820	Various Various	Yes No	\$ 28.40 \$ 28.40	\$ 10,98	6 Reduced based on anticipated work to be completed in 2018  Carried in Asset Management Budget
Asset Management - Water Modeling Consulting  Asset Management - Water Modeling Consulting	Water Modeling Consulting	1800341	2019 Docket	\$ 50,000 \$	50,000		\$ 10,000	\$ -	Various	No	\$ 28.40	ş -	Used on an as-needed basis
Asset Management - Trimble R2 Units	Trimble R2 Units	1800341	2019 Docket	\$ 13,000 \$	-	\$ -	\$ -	\$ -	Various	Yes	\$ 28.40		Replacement not needed in 2018
Asset Management - Water Level Well Monitoring Equ Gilman Street	if Water Level Well Monitoring Equipment Replace 1470 LF of 8 inch CI with 12 inch DIPCL	1800341 1806433	2019 Docket 2019 Docket	\$ 5,000 \$ \$ 475,100 \$	5,000 435,000		\$ -	\$ -	Various Nashua	No Yes	\$ 28.40 \$ 27.81		Replacement not needed in 2018 Project deferred until 2019
Omnan Sueet	Replace 1470 LF 01 6 men C1 with 12 men DIFCL	1702858 &	2019 Docket	ş 4/3,100 ş	455,000	ş -	· -	ş -	ivasiiua	1 es	2/.01	<u>.                                      </u>	Project deferred until 2019
Ritter Street	Replace 500LF of 6 inch CI with 12 inch DIPCL	1806828	2019 Docket	\$ 161,500 \$	215,000	\$ 225,000	\$ 191,000	\$ 168,793	Nashua	Yes	\$ 27.81	\$ 4,69	4
Woodward Street	Replace 300 LF of 6 inch CI with 12 inch DIPCL	1702857 & 1806829	2019 Docket	\$ 95,300 \$	110,000	\$ 130,000	\$ 142,373	\$ 145,417	Nashua	Yes	\$ 27.81	\$ 4.04	4 Increased due to conditions encountered during construction and additional temporary paying
woodward Street	Replace 500 LP of 6 men CF with 12 men DH CE	1702836 &	2017 DOCKET	ş 25,300 ş	110,000	3 150,000	9 142,373	9 145,417	ivasiiua	Tes	27.01	9 4,04	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	\$ 602,707	\$ 607,926	Nashua	Yes	\$ 27.81	\$ 16,90	6 Increased due to conditions encountered during construction and additional temporary paving
Pennichuck Street	Replace 100 LF of 12 inch CI with 12 inch DIPCL	1720993 & 1806831	2019 Docket	\$ 39,900 \$	42.000	\$ 76,000	\$ 76,000	\$ 78.146	Nashua	Yes	\$ 27.81	\$ 2.17	3 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	\$ 161,436		Nashua	Yes	\$ 27.81		5 Added to Misc Replacements to improve fire protection near hospital
		1720991 &										_	
Fossa Avenue	Replace 310 LF of 6 inch CI and 2 PVC with 6 inch and 4 inch DIPCL Replace 775 LF of 8 inch and 275 LF of 6 inch CI with 775 LF of 8 inch and 225 LF of 4	1806801 1720992 &	2019 Docket	\$ 46,200 \$	38,346	\$ 38,346	\$ 115,917	\$ 114,888	Nashua	Yes	\$ 27.81	\$ 3,19	5 Reduce based on bid numbers does not include final paving
Russell Avenue	inch DIPCL	1806802	2019 Docket	\$ 237,800 \$	197,374	\$ 197,374	\$ 255,478	\$ 256,860	Nashua	Yes	\$ 27.81	\$ 7,14	3 Final Paving completed in 2018
Taylor Street (Main St to Lynn)	Replace 2084 LF of 6 inch CI with 8 inch DIPCL	1806803	2019 Docket	\$ 171,800 \$	142,594				Nashua	Yes	\$ 27.81		7 Amount of replacement plipr increased from 790 LF to 2084 LF, includes final paving
Burnett Street Field Street	Replace 535 LF of 6 inch CI with 12 inch DIPCL Replace 325 LF of 6 inch CI with 6 inch DIPCL	1806804 1806435	2019 Docket 2019 Docket	\$ 172,800 \$ \$ 71,700 \$	143,424 59.511				Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81		Final Paving completed in 2018 Final Paving completed in 2018
Fernwood Street	Replace 450 LF of 6 inch CI with 6 inch DIPCL  Replace 450 LF of 6 inch CI with 6 inch DIPCL	1806794	2019 Docket 2019 Docket	\$ 71,700 \$ \$ 159,000 \$	131,970	\$ 39,311 \$ 131,970	\$ 67,384 \$ 113,479		Nashua	Yes	\$ 27.81 \$ 27.81		9 Final Paving completed in 2018
Revere Street	Replace 760 LF of 6 inch CI with 8 inch DIPCL	1806795	2019 Docket	\$ 191,000 \$	158,530	\$ 158,530	\$ 182,994		Nashua	Yes	\$ 27.81		Final Paving completed in 2018
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	\$ 264.258	\$ 264,358	Nashua	Yes	\$ 27.81	9 725	The \$40,200 in the Board approved budget was a copy and paste error. The correct budget for this project based on the distribution engineer's original estimate was \$xxx,xxx
Stevens Street Evergreen Street	of 4 inch DIPCL Replace 310 LF of 1.5 and 1.25 inch CI with 4 inch DIPCL	1806/9/ 1806798	2019 Docket 2019 Docket	\$ 40,000 \$ \$ 69,300 \$	57,519	,			Nashua Nashua	Yes	\$ 27.81 \$ 27.81		2 based on the distribution engineer's original estimate was \$xxx,xxx 4 Final Paving completed in 2018
Morton Street	Replace 290 LF of 1.5 inch CI with 550 LF of 4 inch DIPCL	1806799	2019 Docket	\$ 94,000 \$	78,020				Nashua	Yes	\$ 27.81		Final Paving completed in 2018
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	\$ 180.970	\$ 180,796	Nach -	V	\$ 27.81	e ====	8 Final Paving completed in 2018. Original budget assumed paving would be completed in 2019.
Park Avenue Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL	1806/96 n/a	2019 Docket 2019 Docket	\$ 132,000 \$ \$ 1,024,400 \$	109,560	109,500 پ	\$ 180,970	\$ 180,796	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81		Prinal Paving completed in 2018. Original budget assumed paving would be completed in 2019.  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					\$ -				\$ -	Project needed to be deferred to complete other water main replacement projects that came up in 2018
Northwest High Pressure System Improvements	Add 2700 LF of 24 inch DIPCL on Manchester St.	1806805	2019 Docket	\$ 600,000 \$	-	\$ -	-	\$ -	Nashua	Yes	\$ 27.81		Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
Northwest High Pressure System Improvements Northwest High Pressure System Improvements	Add 2200 LF of 12 inch DIPCL to close loop between Rte 101A and Rte 121 (Amherst) Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL along Tinker Rd.	1806810 1806434	2019 Docket 2019 Docket	\$ 500,000 \$ \$ 440,000 \$	-	\$ - \$ -	-	\$ - \$ -	Amherst Nashua	Yes Yes	\$ 31.59 \$ 27.81		Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey  Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
	propriet one in or to mentite with one in or at ment off Chang Timer Rd.	1000TJ4	ZULV DUCKEL	, TTU,000 3	-	· ·		7	- vaoriua	1.05	y 27.01		2017 to take act amage of the interest DWO 11 Loan - uesign and survey

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			Financing	Approved	Estimated Project Cost as of	Estimated Project Cost as of	Estimated Project Cost as of	Final Project cost				Eligible Property Tax
Project Name/Description	Project Description	Work Order #	Docket No.	Budgeted Amount	6/30/2018	9/30/2018	11/30/2018	as of 12/31/2018	Community	Taxable	Tax Rate (1)	Expense Explanation for Change/Addition/Deletion since 1/30/2018
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	\$ -	\$ -	\$ -	\$ -	\$ -	Nashua	Yes	\$ 27.81	Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
Northwest High Pressure System Improvements	Add 3400 LF or 20 inch HDPE and 24" DIPCL RR Crossing parallel to Amherst St	1806808	2019 Docket	ş -	\$ -	ş -	s -	e	Nashua	Yes	\$ 27.81	Deferred to 2019 to take advantage of low interest DWGTF Loan - design and survey
Lake Street	(Nashua Airport)  Replace 2950 LF of 6 inch CI with 12 inch DI	1814740	2019 Docket 2019 Docket	\$ 1,085,200	\$ 1,415,200	S -	S -	S -	Nashua	Yes	\$ 27.81	Gas Company with late start. Project requires temporary water. Deferred to 2019
	7	1702860 &		3,000,000	, , , , , , ,	*	-	7				
Kinsley Street Harvard Street	Replace 275 LF of 12" CI and 1020 LF of 6" CI with 12" DIPCL	1825911 1814742	2019 Docket		\$ 526,000 \$ 150,000	\$ 542,620	\$ 693,441	\$ 693,827	Nashua Nashua	Yes	\$ 27.81 S	\$ 19,295 In conjunction with the City of Nashua's 2018 sewer replacements
Replace Jeep with Pickup	Replace 784 LF of 8 inch CI with 8 inch DIPCL Replace 2006 Jeep with 152.407 miles with Pickup	1814/42	2019 Docket 2019 Docket	\$ 30,000	\$ 150,000 \$ 22,969	\$ - \$ 22,969	\$ 22,969	\$ 22,969	Nashua Merrimack	Yes No	\$ 27.81	
Replace Ranger Pickup	Replace 2005 Ranger Pickup with 186,885 miles	1817796	2019 Docket	\$ 30,000	\$ 34,050	\$ 34,054			Merrimack	No	\$ 28.92	
Mast Road Replacement (PEU-PWW) Interconnection  Marshall Street	PWW share of PWW-PEU Interconneciton budget Replace 1074 LF of 8" CI with 1074 LF of 8" DIPCL	1807148 1813935	2019 Docket 2019 Docket	\$ -	\$ 57,000 \$ 270,000	\$ 67,850 \$ 325,000		\$ 67,850 \$ 355,362	Merrimack Nashua	Yes	\$ 28.92 S \$ 27.81 S	\$ 1,962 Added after approved budget. Opportunity to replace 8 inch A/C pipe \$ 9,883 RR crossing on Marshall St was to be lowered and fire protection concerns
Ferryalls Court	Replace 116 LF of 8 CF with 1074 LF of 8 DFCL  Replace 116 LF of 1.25" steel pipe with 4" PVC	1825319	2019 Docket	\$ -	\$ 60,000	\$ 62,000		\$ 78,552	Nashua	Yes Yes	\$ 27.81	
Salvail Court	Replace 100 LF of 1.25 inch steel pipe with 4 inch PVC	1825910	2019 Docket	\$ -	\$ 55,000	\$ 55,000	\$ 55,000		Nashua	Yes	\$ 27.81	s - paving program, same era as Ferry Alls Ct.
Lovewell Street	Replace 400 LF of 1.25" steel pipe with 8" DIPCL	1825912	2019 Docket	e	\$ 210,000	\$ 86,000	\$ 139.276	\$ 139.417	Nashua	Yes	\$ 27.81	Gas replacement will compromise 1933 era water line. Based on revised contractor estimate. Final paving  \$ 3.877 completed in 2018
Loveweii Street	Replace 400 LF of 1.25 Steel pipe with 6 DFCL	1023912	2019 Docket	· -	\$ 210,000	3 00,000	3 139,270	3 139,417	iNasiiua	1 es	ş 2/.01 ,	Project developed in response to a combination of low pressure and pressure surges causing customer
Shakespeare High Pressure System	Expand HP system to address pressure issues to 4 streets	1813926	2019 Docket	ş -	\$ 273,000	\$ 230,000	\$ 230,000	\$ 211,941	Nashua	Yes	\$ 27.81	\$ 5,894 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     Eliminate AC water main located in Street that City added to their 2018 street paving project. Final paving
Cheshire Street	Replace 394 LF of 8" AC with 394 LF of 12" DIPCL	1825913	2019 Docket	s -	s -	\$ 123,000	\$ 183,586	\$ 183,707	Nashua	Yes	\$ 27.81	\$ 5,109 completed in 2018.
Investment in developer installed services at 1xannual revenue	Per tariff (224)	n/a	2019 Docket	\$ -	\$ -	\$ 133,175	\$ 133,175	\$ 141,179	Various	Yes	\$ 28.40	
Chase Street	Replace 430 LF of 6" CI with 4: HDPE	1829925	+	\$ -	\$ -	\$ -	\$ 134,600	\$ -	Nashua	Yes	\$ 27.81	Completed in conjunction with a City of Nashua Sewer Replacement. City covering Street reconstruction
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	\$ 48,354	\$ 50,899	Various	Yes	\$ 28.40	\$ 1.446
Replace 2 Submersible Jet Pumps	Replace two submersible jet pumps in the headworks at the WTP	1818297	2019 Docket	\$ -	\$ -	\$ 14,707	\$ 14,707	\$ 14,707	Nashua	Yes	\$ 27.81	
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	\$ 28.40 5	
Misc. Structural Improvements  Misc. Structural Improvements	Misc. Structural Improvements  WTP - Replace FWPS oil Tank Leak Monitor	1820031	2019 Docket 2019 Docket	\$ 20,000	\$ 20,000	\$ 5,000 \$ 1,200		\$ - \$ 3,331	Various Nashua	Yes	\$ 28.40 S	\$ - \$ 93
Misc. Structural Improvements  Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	1020031	2019 Docket 2019 Docket	\$ 20,000	\$ 20,000			\$ 2,331	Various Various	Yes Yes	\$ 28.40	9 73 \$ -
Replacement of 18" Backwash Acuator	The replacement of the electric valve actuator for the 18" backwash water control valve	1819988	2019 Docket	\$ -	\$ -	\$ 4,456	\$ 4,456	\$ 4,456	Nashua	Yes	\$ 27.81	\$ 124
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		2019 Docket	\$ 30,000	\$ 30,000	- /			Various	Yes	\$ 28.40	3
Miscellaneous SCADA/Electrical Miscellaneous SCADA/Electrical	WTP - Replace High Lift #4, Soft Starter Mechanism WTP - Replace Turbidimeter Controller - Filters 1A/1B	1813113 1805725	2019 Docket 2019 Docket	\$ -	\$ -	\$ 5,265 \$ 3,246			Nashua Nashua	Yes Yes	\$ 27.81 S	\$ 146 \$ 92
Miscellaneous SCADA/Electrical Miscellaneous SCADA/Electrical	Install CMI units on 4 meters at this location	1814856	2019 Docket	\$ - \$ -	\$ - \$ -	\$ 3,246 \$ 3,272		,	Nashua	Yes	\$ 28.40	72
Miscellaneous SCADA/Electrical	Replacement of the variable frequency drive unit for pump #2 at this location	1819989	2019 Docket	\$ -	\$ -	\$ 9,765		\$ 9,765	Nashua	Yes	\$ 28.40	
Well Rehabilitation WTP Structural/HVAC	Well Rehabilitation WTP Structural/HVAC	n/a	2019 Docket	\$ 50,000 \$ 10,000	\$ 50,000	ş -	\$ -	\$ -	Various Nashua	Yes	\$ 28.40 \$	No well rehabilitations projected to occur
WTP Structural/HVAC WTP Structural/HVAC	The rebuilding of the heating/AC roof top unit for WTP Finished Water Pump Station	1818208	2019 Docket 2019 Docket	\$ 10,000	\$ 10,000 \$	\$ 6,094	\$ 6,094	\$ 6,094	Nashua Nashua	Yes Yes	\$ 27.81 S	
Purchase new lab equipment	Purchase new lab equipment	1010200	2019 Docket	\$ 20,000	\$ 20,000	- /		\$ -	Nashua	No	\$ 27.81	
Purchase new lab equipment	Replace Combined Filter Effluent Chlorine Analyzer	1820254	2019 Docket	\$ -	\$ -	\$ 3,575	\$ 3,575	\$ 3,575	Nashua	No	\$ 27.81	\$ -
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	n/a	2019 Docket	\$ 10,000	\$ 10,000		\$ -		Various	Yes	\$ 28.40	None projected through year end
Purchase new vehicle #212 Replace Vehicle	Vehicle needed for new Community Water System Operator Replacement of vehicle #62	1816162 1825490	2019 Docket 2019 Docket	\$ 65,000 \$ 65,000	\$ 65,000 \$ 65,000	\$ 39,513 \$ 50,000			Nashua Nashua	No No	\$ 27.81 S	
Replace Vehicle	Replacement of vehicle #38	1819990	2019 Docket	\$ 40,000	\$ 40,000				Nashua	No	\$ 27.81	
WTP Perimeter Fence	WTP Perimeter Fence	n/a	2019 Docket	\$ 80,000	\$ 80,000	\$ -	\$ -	\$ -	Merrimack	Yes	\$ 28.92	
Bowers Dam Spillway reconstruction engineering WTP Camera system upgrade	Bowers Dam Spillway reconstruction engineering  Existing Camera system is outdated	1824545 1819073	2019 Docket 2019 Docket	\$ 90,000 \$ 50,000	\$ 90,000 \$ 50,000	\$ 50,000 \$ 4,000		\$ -	Merrimack Nashua	No Yes	\$ 28.92 \$ \$ 27.81 \$	
Dredging feasibility study	Dredging feasibility study	1807145	2019 Docket	\$ 30,000 \$ 31,500	\$ 30,000 \$ 31,500	,		s -	Various	No	\$ 28.40	
Sourcewater Protection Study	Sourcewater Protection Study	1807146	2019 Docket	\$ 15,000	\$ 15,000	\$ 15,000		\$ -	Various	No	\$ 28.40	Study is not QCPAC Qualified
Purchase replacement Aeration system compressor	Harris Pond raw water aeration system, replace 1 of 2	1829845	2019 Docket	\$ -	\$ -	\$ 17,000			Nashua	Yes	\$ 27.81	
Purchase new lab equipment Purchase and install 2-raw water streaming current monitors	Purchase bench top Zeta potential analyzer  Replacement of two older units, 1 currently not operational	1826397 1829848	2019 Docket 2019 Docket	\$ - \$ -	\$ - \$ -	\$ 75,000 \$ 55,000		\$ 38,375 \$ 10,695	Nashua Nashua	Yes Yes	\$ 27.81 S	
Aquatic Vegetation Assessment and Management	Aquatic Vegetation Assessment and Management	1807147	2019 Docket	\$ 7,500	\$ 7,500	\$ 7,500		\$ -	Various	No	\$ 28.40	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 pha	1800482	2019 Docket	\$ -	\$ -	\$ 6,276	\$ -	\$ 6,276	Nashua	Yes	\$ 27.81	\$ 175
		1814346, 1704175										
Website Upgrades	Improved Customer Service Experience	& 1826890	2019 Docket	\$ 10,000	\$ 19,068	\$ 19,068	s -	\$ 4,500	Merrimack	No	\$ 28.92	Project deferred until 2019
SIEM Appliance	Aggregate Real-time monitoring of system alerts and logs	n/a	2019 Docket	\$ 26,000	\$ -	ş -	\$ -	\$ -	Merrimack	No	\$ 28.92	
Windows Server Licensing Renewal	Purchase Windows server for virtual servers	1813466	2019 Docket	e	e	\$ 22,925	\$ 22,925	\$ 22,925	Merrimack	No	\$ 28.92	The assimilation of multiple new Windows Server licenses from multiple projects into one Enterprise  License to cover all virtual servers. Project Finished
AD Change Auditor	Needed to track changes to Authentication Server	n/a	2019 Docket	\$ 4,000	\$ 4,000		\$ -	\$ -	Merrimack	No	\$ 28.92	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	\$ 28.92	
Storage Upgrade Munis FER Enhancements	Replace non-supported hardware and increase speed	1817426	2019 Docket 2019 Docket	\$ 70,000 \$ 64,000	\$ 52,000 \$ 64,000	\$ 52,000 \$ 64,000		\$ 45,197	Merrimack Merrimack	No	\$ 28.92 S	S - Project Complete Project deferred until 2019
Click Mobile Application Changes	Needed as Business process change  Needed as Business process change	n/a n/a	2019 Docket	\$ 64,000	\$ 30,000			s -	Merrimack	No No	\$ 28.92	
- · · · · · · · · · · · · · · · · · · ·		1702223, 1707189			ĺ							
ClickMobile Move to iPads	Move to a more functional device	& 1807440	2019 Docket	\$ 140,000	\$ 140,000	\$ 140,000	,		Merrimack	No	\$ 28.92	Hardware purchases and Contractor charges
Additional iPads for Meter Techs  Implement Customer Balances over the phone	Configuration and deployment of 6 devices  Improved Customer Service Experience	1825224	2019 Docket 2019 Docket	\$ 4,000	\$ - \$ 4,000	\$ 6,000 \$ -	\$ 6,000	\$ 4,680 \$	Merrimack	No	\$ 28.92	S - Deferred until 2019
Miscellaneous Hardware	Run Rate replacements		2019 Docket	\$ 15,000	\$ 15,000		\$ 2,500	\$ -	Merrimack	No	\$ 28.92	s defined diffit 2017
Miscellaneous Hardware	Purchase network switch for core routing @ Manchester Street	1813280	2019 Docket	\$ -	\$ -	- /			Merrimack	No	\$ 28.92	
Miscellaneous Hardware Miscellaneous Hardware	Castle/Ware Laptops Replacement Printer - Engineering	1818947 1817323	2019 Docket 2019 Docket	\$ -	\$ - \$ 2,249	\$ 4,642 \$ 2,249			Merrimack Merrimack	No No	\$ 28.92 S	
Miscellaneous Software	Run Rate replacements	n/a	2019 Docket	\$ 12,000				\$ 2,249	Merrimack	No	\$ 28.92	
LIMS upgrade	Allow for Electronic Data Collection in the Field	1817795	2019 Docket	\$ 11,000	\$ 6,000			\$ 939	Merrimack	No	\$ 28.92	No additional project costs expected.
Physical Server for Pearl	Physical Server for Pearl	n/a	2019 Docket	\$ 12,000	\$ -	\$ -	\$ -		Merrimack	No	\$ 28.92	
Corporate Job Scheduler Consulting	Centralized nightly Job management and notification  Consulting	n/a n/a	2019 Docket 2019 Docket	\$ 4,000 \$ 32,000	\$ 4,000 \$ 32,000				Merrimack Merrimack	No No	\$ 28.92 S	
Laptops for L.G. & D.W.	Laptops for L.G. & D.W.	1813464	2019 Docket	\$ 4,000	\$ 5,442				Merrimack	No	\$ 28.92	
Additional Computers	Additional Computers	1814843	2019 Docket	\$ 4,000	\$ 5,717			\$ 6,798	Merrimack	No	\$ 28.92	\$ - Project Complete
Replace 43 desk top computers at Main office	Computers are 7 years old and running on unsupported Windows 7 platform	1825498 1817818	2019 Docket 2019 Docket	\$ -	\$ - \$ 16,400	\$ 41,267 \$ 6,200			Merrimack	No No	\$ 28.92 S	
Office 365 Exchange Migration VPN Update	Office 365 Exchange Migration  VPN appliance to better support our mobile workforce	181/818	2019 Docket 2019 Docket	\$ -	\$ 10,400	\$ 0,200	\$ 6,200 \$ -	\$ 7,737	Merrimack	100	9 28.92	ξ -
Berkshire St	Water Main Replacement	1817715	2019 Docket	\$ -	\$ -	\$ -	Ÿ	\$ 5,239	Nashua	Yes	\$ 27.81	
Bedford Water System Expansion	5/8" Meters	1820043	2019 Docket	\$ -	\$ -		\$ -	\$ 10,947	Bedford	Yes	\$ 24.76 \$	
GIS/GeoSync/Work 2017 Phase 2 Install Overhead Crane and Door-WTP Process Area Design	GIS/GeoSync/Work  2018 Phase 2 Install Overhead Crane and Door-WTP Process Area Design	1813962 1814354	2019 Docket 2019 Docket	ş - \$ -	\$ - \$ -	s -	\$ - \$ -	\$ 13,360 \$ 12,412	Various Nashua	Yes Yes	\$ 28.40 S	
New Virtual Server	New Virtual Server	1819083	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 16,321	Merrimack	Yes	\$ 28.92	
	Replace VFD, Booster #2, Orchard Ave Station	1819288	2019 Docket	\$ -	S -	S -	\$ -	\$ 1.719	Nashua	Yes	\$ 27.81	

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	of Final Project cost as of 12/31/2018		Taxable	Tax Rate (1)	QCPAC Eligible Property Ta Expense	
Unitrends RC823S	Backup and Disaster Recovery Device	1617283	2019 Docket	ş -	\$ -	ş -	\$ -	\$ 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	\$ 7	78
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	\$ 1	82
TIG Welder	TIG Welder	1900419	2019 Docket	ş -	\$ -	\$ -	\$ -	\$ 2,955	Merrimack	No	\$ 28.92	\$ -	
Itility Truck Replacement	Replacement of #47 with Truck #315	1900418	2019 Docket	ş -	\$ -	\$ -	\$ -	\$ 62,215	Merrimack	No	\$ 28.92	\$ -	
Additional Trench Boxes	Additional Trench Boxes	1826437	2019 Docket	ş -	\$ -	\$ -	\$ -	\$ 22,241	Merrimack	No	\$ 28.92	\$ -	
Overhead Crane and Door	WTP Process Area Installation	1807303	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 19,761	Nashua	Yes	\$ 27.81	\$ 5.	50
Sweet Hill Well #3	Sweet Hill Well #3 (2018 Carryover)	1813054	2019 Docket	\$ -	\$ -	\$ -	\$ -	\$ 2,408	Plaistow	Yes	\$ 28.93	\$	70
SCADA System Upgrade	WTP - 2018 replace all SCADA computers and upgrade system	1813303	2019 Docket	ş -	\$ -	\$ -	\$ -	\$ 20,642	Nashua	Yes	\$ 27.81	\$ 5	74
mherst Water System Expansion	Meters and Radios	1806832	2019 Docket	ş -	\$ -	\$ -	\$ -	\$ 16,646	Amherst	Yes	\$ 31.59	\$ 5:	26 Meters and Radios for PFOA customers in Amherst
#353-Service Truck Replacement (#47)	#353-Service Truck Replacement (#47)	1813945	2019 Docket	ş -	\$ -	\$ -	\$ -	\$ 1,103	Merrimack	No	\$ 27.81	\$ -	
tetainage	Retainage		2019 Docket					\$ (197,247)	Nashua	Yes	\$ 27.81	\$ (5,4	Please see the "Retainage Support" tab for breakdown of amount. This is retainage on projects con 85) 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 Prope		e associated with CPAC projects		64

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

								Estimated Project				QCPAC Eligible Property Tax Expense
Project Name/Description	Project Description	Work Order#	Financing Docket No.	NHPUC Order No.		Board Approved 2019 Capex Budget	Eligible for 2020 QCPAC Surcharge	Costs as of 6/30/2019	Community	Taxable	Tax Rate (1)	(Based on Qrtly Update) Explanation for Change/Addition/Deletion since Petition Filing
New Services (10) Renewed Services (20)	Single Family, Owner Build, New Homes Replacement of failed services		DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 46,000 \$ 92,000	Yes Yes	\$ 46,000 \$ 92,000	Various Various	Yes Yes	\$ 28.85 \$ 28.85	
Hydrants (10) Gates (10)	Replacement of non functional hydrants Replacement of Failed Gate Valves		DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 50,000 \$ 40,000	Yes Yes	\$ 50,000 \$ 40,000	Various Various	Yes Yes	\$ 28.85 \$ 28.85	\$ 1,443
Radios (2750)	Replace out of warrantee failed radio meter readers		DW17-183	26,101	2/2/2018	\$ 275,000	Yes	\$ 30,000	Various	Yes	\$ 28.85	
Meters (Growth) 5/8"-2" - Core & CWS (480) Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)	Meters (Growth) 5/8"-2" - Core & CWS (480)  Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)		DW17-183 DW17-183	26,101	2/2/2018 2/2/2018	\$ 48,000 \$ 300,000	Yes Yes	\$ 48,000 \$ 300,000	Various Various	Yes Yes	\$ 28.85 \$ 28.85	\$ 1,385
Entrance Security Gate & Perimeter Fence	Entrance Security Gate & Perimeter Fence		DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 75,000 \$ 100,000	Yes	\$ 75,000	Merrimack	Yes	\$ 28.92	\$ 2,169
Replace 13 yr Vac Trailer - Safety & Maint issue Protectus Meter Upgrade	Replace 13 yr Vac Trailer - Safety & Maint issue Spitbrook Rd Protectus Meter Upgrade		DW17-183	26,101	2/2/2018	\$ 100,000 \$ 21,000	Yes Yes	\$ 21,000	Merrimack Nashua	Yes Yes	\$ 28.92 \$ 27.81	\$ 584
Pipe Freeze Kits (2) Network Digital Display Installation	RoFrost Turbo 2 Electric Pipe Freeze Kts  Relocate & network display to Assignment room & new 75" display in Conference Rm		DW17-183 DW17-183	26,101	2/2/2018	s - s -	Yes Yes		Nashua Merrimack	Yes Yes	\$ 27.81 \$ 28.92	\$ 78 New technology available to display department information digitally
Plate Compactors (4) 2018 Dodge Ram 2500 (#313)	Replacement of failed compactors unable to obtain repair parts  Carryover Costs to 2018 projects not recovered in prior QCPAC	1907613	DW17-183 0.1 DSRR	26,101	2/2/2018	S -	Yes No	\$ 17,500 \$ 1,969	Nashua Merrimack	Yes No	\$ 30.81 \$ 28.92	\$ -
2018 Dodge Ram 2500 (#314) 2018 Dodge Ram 2500 (#315)	Carryover Costs to 2018 projects not recovered in prior QCPAC Carryover Costs to 2018 projects not recovered in prior QCPAC	1907612 1907615	0.1 DSRR 0.1 DSRR			S -	No No	\$ 2,542	Merrimack Merrimack	No No	\$ 28.92 \$ 28.92	S -
2018 Dodge Ram Promaster 1500 Cargo Van (#347) 2018 Dodge Ram Promaster 1500 Cargo Van (#348)	Carryover Costs to 2018 projects not recovered in prior QCPAC Carryover Costs to 2018 projects not recovered in prior QCPAC	1907987 1907988	0.1 DSRR 0.1 DSRR			S -	No No		Merrimack Merrimack	No No	\$ 28.92 \$ 28.92	
2018 Dodge Ram Promaster 1500 Cargo Van (#349) Meter Data Logging Equipment	Carryover Costs to 2018 projects not recovered in prior QCPAC  Carryover Costs to 2018 projects not recovered in prior QCPAC	1907989 1907885	0.1 DSRR 0.1 DSRR			s -	No No	\$ 1,060 \$ 2,849	Merrimack Various	No Yes	\$ 28.92 \$ 28.85	\$ -
Gilman Street Elm Street	Replace 470 LF of 8 inch CI with 12 inch DIPCL  Replace 875 LF of 6 inch CI with 12 inch DIPCL	1301003	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 550,000 \$ 559,350	Yes Yes	\$ 615,000 \$ 255,000	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 17,103
Monroe Street	Replace 310 LF of 4 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018 2/2/2018	\$ 122,270	Yes	\$ 120,000	Nashua	Yes	\$ 27.81	\$ 3,337
W.Pearl Street Harvard Street	Replace 260 LF of 8 inch CI with 8 inch DIPCL  Replace 800 LF of 8 inch CI with 8 inch DIPCL		DW17-183 DW17-183	26,101	2/2/2018		Yes Yes	\$ 140,000 \$ 249,200	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 6,930
West Hollis Street Check Valve Pit NWS Improvements - Manchester Street	Install at the int of W. Hollis St and Panther Dr.  Add 2700 LF of 24 inch DIPCL on Manchester St.		DW17-183	26,101	2/2/2018	\$ 88,000 \$ 660,000	Yes Yes	\$ - \$ 660,000	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	
NWS Improvements - Route 101A and Route 121 (Amherst) NWS Improvements - Tinker Road	Add 2200 LF of 12 inch DIPCL to close loop  Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL.		DWGTF			\$ 550,000 \$ 522,500	Yes Yes	\$ 550,000 \$ 522,500	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	
NWS Improvements - Deerwood Drive & Amherst St. Intersection NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Replace 1300 LF of 12 inch AC with 1300 LF of 24 inch DIPCL Add 3400 LF of 20 inch HDPE including RR pipe jacking		Financing			\$ 467,500 \$ 635,800	Yes Yes	\$ 467,500 \$ 635,800	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 13,001
NWS Improvements Ponemah Rd/Route 101A Loop City of Nashua Sewer - Chase Street	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends  Replace 470 LF of 6 inch CIP with 470 LF of 6 inch DIPCL	1829925, 1900484	DW17-183	26,101	2/2/2018	\$ 484,000 \$ 176,000	Yes Yes	\$ 484,000 \$ 190,000	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 13,460
City of Nashua Sewer - Chase street City of Nashua Sewer - Ash Street	Replace 470 LF of 6 inch CIP with 470 LF of 6 inch DIPCL  Replace 710 LF of 6 inch CIP with 710 LF of 12 inch DIPCL	1814367	DW17-183	26,101	2/2/2018	\$ 242,000	Yes	\$ 162,800	Nashua	Yes	\$ 27.81	\$ 4,527 Daily trench pavement required.
City of Nashua Sewer - Lake Street	Replace 2950 LF of 6 inch CI with 12 inch DIPCL	1814740	DW17-183	26,101	2/2/2018	\$ 990,000	Yes	\$ 1,710,500	Nashua	Yes	\$ 27.81	More intersection conflicts. Limited work hours (8 am to 3 pm). Temporary main for entire project inclusive of temporary fire projection. Increased contractor pricing due to tight
City of Nashua Paving - Vilna St.	Replace 15 LF of 1.5 inch steel with 2 inch HDPE for paving program		DW17-183	26,101	2/2/2018	s -	Yes	\$ 16,750	Nashua	Yes	\$ 27.81	
Interconnection to BWC Woodward Avenue	Carryover Costs to 2018 projects not recovered in prior QCPAC Carryover Costs to 2018 projects not recovered in prior QCPAC	1900429 1910117	0.1 DSRR 0.1 DSRR			S -	No No	\$ 3,400 \$ 2,200	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 61 Carry over costs from project completed in 2018, pay for with 0.1 DSRR
Riter Street Factory Street	Carryover Costs to 2018 projects not recovered in prior QCPAC Carryover Costs to 2018 projects not recovered in prior QCPAC	1910116 1909270	0.1 DSRR 0.1 DSRR			S -	No No	\$ 6,890 \$ 20,209	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 192 Carry over costs from project completed in 2018, pay for with 0.1 DSRR
Taylor Street Shakespeare HP System Exp	Carryover Costs to 2018 projects not recovered in prior QCPAC Carryover Costs to 2018 projects not recovered in prior QCPAC	1906988 1901942	0.1 DSRR 0.1 DSRR			S -	No No	\$ 233 \$ 257	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 6 Carry over costs from project completed in 2018, pay for with 0.1 DSRR
City of Nashua Paving - Mill St.	Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main	1901942	0.1 D3KK			\$ -	Yes	\$ 17,900	Nashua	Yes	\$ 27.81	\$ 498 Includes final paving - complete
City of Nashua Paving - Ferryalls Ct	Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main	1908316	DW17-183	26,101	2/2/2018	s -	Yes	\$ 58,580	Nashua	Yes	\$ 27.81	Canal St - complete
City of Nashua Paving - Salvail Ct City of Nashua Paving - Nutt St - Final Paving and restoration	Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area)  Pavement restoration and final landscaping	1908317 1907682	DW17-183 DW17-183	26,101	2/2/2018 2/2/2018	S -	Yes Yes	\$ 95,000 \$ 13,000	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 362 \$6,240 of this will be recovered from Liberty Gas
City of Nashua Paving - Cheshire St - Final Cleanup City of Nashua - Simon St at Will St Upgrade	Fence repair and site clean up  Abandon pump station pit and clean up intersection pipe work for improved flows	1908353	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ -	Yes Yes	\$ 1,400 \$ 215,100	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 5,982 Includes base paving - Finished paving required in 2020 not included
City of Nashua Paving - Main St. City of Nashua Paving - Lemon St - Carry over from 2017	Main St final paving at intersection with Factory St. Carry over from 2018  Paving only - Carry over from 2017		DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018		Yes Yes	\$ 24,500 \$ 24,850	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	
City of Nashua Paving - Lowell St - Carry over from 2017 City of Nashua Paving - Green St - Carry over from 2017	Paving only - Carry over from 2017 Paving only - Carry over from 2017		DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	S -	Yes Yes	\$ 37,000 \$ 10,000	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 1,029 Estimated paving contribution - Originally anticipated for 2020
City of Nashua Paving - Bread St - Carry over from 2017 City of Nashua Paving - Terrace St - Carry over from 2017	Paving only - Carry over from 2017 Paving only - Carry over from 2018		DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ - \$ -	Yes Yes			Yes Yes	\$ 27.81 \$ 27.81	\$ 720 Estimated paving contribution - Originally anticipated for 2020
City of Nashua Paving - Warren St - Carry over from 2017	Paving only - Carry over from 2017		DW17-183	26,101	2/2/2018		Yes	\$ 19,500	Nashua	Yes	\$ 27.81	\$ 542 Estimated paving contribution - Originally anticipated for 2020
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River		DWGTF Financing			\$ 5,500,000	Yes	\$ 6,600,000	Merrimack	Yes	\$ 28.92	requirements that impacted initial design that engineers estimate was based on.
Asset Management Outside GIS Consulting Services Asset Management Water Modeling Consulting	Outside GIS Consulting Services Water Modeling Consulting		DW17-183 DW17-183	26,101	2/2/2018 2/2/2018	\$ 36,000	Yes Yes	\$ 60,000 \$ 36,000	Various Various	No No	\$ 28.85 \$ 28.85	\$ -
Asset Management Trimble R2 Units	Trimble R2 Units  WAM/Synergen Upgrade Cost & Functionality Study	1900568, 1910219	DW17-183	26,101	2/2/2018	\$ 14,000 \$	Yes No	\$ 14,000 \$ 45,000	Various Various	Yes	\$ 28.85 \$ 28.85	
WAM/Synergen Upgrade Cost & Functionality Study  Investment in developer installed services at 1xannual revenue	Per tariff	1900568, 1910219	DW17-183	26,101	2/2/2018	\$ 60,000	Yes	\$ 43,000 \$ 60,000	Various	Yes	\$ 28.85	2020.
2019 Ford Escape Bower Dam reconstruction and engineering	Replace Totaled 2015 Ford Escape  Bower Dam reconstruction and engineering	1907481	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	S -	Yes No	\$ 23,998 \$ 25,000	Merrimack Merrimack	No No	\$ 28.92 \$ 28.92	Vehicle in accident. Vehicle totalled and needed to be replaced.     Design Engineering Work for 2020 Dam rehabilitation
Bowers Dam Letter of Defficiency design/analysis	perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity		DW17-103	,		20,000	No	\$ 35,000	Merrimack	No	\$ 28.92	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capaci
							No.	s 40,000		No.		Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capaci
Harris Dam Letter of Defficiency design/analysis	perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity						No		Merrimack	No	\$ 28.92	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capaci
Supply Pond Letter of Deficncy design/analysis Booster Pump replacement/rebuild	perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity Booster Pump replacement/rebuild		DW17-183	26,101	2/2/2018		No Yes	\$ 35,000 \$ 15,445	Merrimack Various	No Yes	\$ 28.92 \$ 28.85	Reduced by intermediate booster pump rebuild below.
Booster Pump replacement/rebuild Well Pump replacements	WTP Rebuild pump end, Intermediate Pump #3 Well Pump replacements	1914986	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 15,000	Yes Yes	\$ 24,555 \$ 15,000	Nalshua Various	Yes Yes	\$ 27.81 \$ 28.85	\$ 433
Chemical Feed pump replacements  Upgrade SCADA historian software, new hardware	Chemical Feed pump replacements upgrade SCADA historian software, new hardware		DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 10,000 \$ 150,000	Yes Yes	\$ 10,000 \$ 150,000	Various Various	Yes Yes	\$ 28.85 \$ 28.85	
Twin Ridge rebuild softener system, install radon treatment Misc. Structural Improvements	Twin Ridge rebuild softener system, install radon treatment Misc. Structural Improvements		DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 50,000	Yes Yes	\$ 50,000 \$ 10,700	Plaistow Various	Yes Yes	\$ 28.85 \$ 28.85	\$ 1,443
Misc. Structural Improvements Miscellaneous Equipment Purchased	Replace Fire Alarm System CPU Miscellaneous Equipment Purchased	1907102, 1910221	DW17-184 DW17-183	26,102 26,101	2/3/2018	S -		\$ 9,300 \$ 9,928	Nashua Various	Yes Yes	\$ 28.85 \$ 28.85	\$ 268 Fire Alarm CPU failed due to electrical surge.
Miscellaneous Equipment Purchased Miscellaneous Equipment Purchased	Purchase 2 Gas Monitors for WS Confined Space Program	1907611	DW17-184	26,102	2/3/2018	\$ -	165	\$ 4,568	Nashua	Yes	\$ 28.85	\$ 132 Routine Miscellaneous Equipment purchase
Miscellaneous SCADA/Electrical	Purchase Entry Tripod and Winch for WS Confined Space Program  Miscellaneous SCADA/Electrical	1910296	DW17-183	26,101 26,101	2/2/2018		Yes	\$ 30,000 \$ 30,000	Various	Yes	\$ 28.85	
WTP Structural/HVAC Purchase new lab equipment	WTP Structural/HVAC Purchase new lab equipment		DW17-183 DW17-183	26,101	2/2/2018 2/2/2018	\$ 10,000 \$ 20,000	Yes Yes	\$ 18,500	Nashua Nashua	Yes Yes	\$ 28.85 \$ 28.85	\$ 534 Reduced by purchase of HACH DR 900 below
Purchase new lab equipment Miscellaneous Fencing and Security projects	HACH DR 900 Miscellaneous Fencing and Security projects	1908450	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ - \$ 10,000	Yes Yes	\$ 10,000	Nashua Various	Yes Yes	\$ 28.85 \$ 28.85	\$ 289
Replace Ferric Chloride Feed pump  Carbon media changeout-filters 1 & 2	Replace Ferric Chloride Feed pump  Carbon media changeout-filters 1 & 2		DW17-183 DW17-183	26,101	2/2/2018 2/2/2018	\$ 1,000,000	Yes Yes	\$ 10,000 \$ 1,525,000	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	\$ 42,410 New PFAS regulations require that all filter media be changed out to enure compliance with
Add 3rd pump at Main Dunstable Booster, replace 1 existing Replace Kessler Farm booster pump package	Add 3rd pump at Main Dunstable Booster, replace 1 existing  Replace 20 year old package booster station pumps and piping. Piping is steel which is beginning to pi	it	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018		Yes Yes	\$ - \$ 75,000	Nashua Nashua	Yes Yes	\$ 27.81 \$ 27.81	
Stump Pond Subwatershed assessment Stump Pond Stormwater BMP	Stump Pond Subwatershed assessment Stump Pond Stormwater BMP		0.1 DSRR 0.1 DSRR			\$ 25,000 \$ 20,000	No No	\$ 25,000 \$ 20,000	Merrimack Merrimack	No No	\$ 28.92 \$ 28.92	S - Study - Pay for with 0.1 DSRR S - Study - Pay for with 0.1 DSRR
Public Education -Watershed signage Replace 2 Hach Turbidimeters and associated control module	Public Education -Watershed signage Replace 2 Hach Turbidimeters and associated control module		0.1 DSRR DW17-183	26,101	2/2/2018	\$ 20,000 \$ 10,000	No Yes	\$ 20,000 \$ 10,000	Merrimack	No Yes	\$ 28.92 \$ 27.81	\$ - Study - Pay for with 0.1 DSRR
Camera System Upgrade Dredging Feasibility Study	Carryover Costs from 2018 Project Carryover Costs from 2018 study	1900413 1901939	0.1 DSRR 0.1 DSRR			S -	No No	\$ 7,500	Nashua Merrimack	Yes	\$ 27.81 \$ 28.92	Carry over costs from project completed in 2018, pay for with 0.1 DSRR
Source Water Protection Study	Carryover Costs from 2016 study Carryover Costs from 2018 study Carryover Costs from 2018 study	1901939 1901740 1906080	0.1 DSRR 0.1 DSRR 0.1 DSRR			S -	No No		Merrimack Merrimack		\$ 28.92 \$ 28.92 \$ 28.92	\$ - Study - Pay for with 0.1 DSRR
Aquatic Vegetation Assessment Fiber Conduit between WTP and Dist	Install Fiber Conduit between Water Treatment Plant and Distribution to eliminate ongoing Comcast	1200080	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ 4,200 \$ 40,000	Nashua	Yes	\$ 28.92 \$ 27.81	
Munis FER Enhancements	Ethernet line to one of the buildings Munis FER Enhancements		DW17-183	26,101	2/2/2018		Yes	\$ 35,000	Merrimack	No	\$ 28.92	
Wireless Access Points for Main Office KVM for Data Center	Wireless Access Points for Main Office Keyboard Video Mouse for Data Center so that multiple servers can be accessed by one console		DW17-183	26,101	2/2/2018	\$ 14,000	Yes	5 -	Merrimack	No	\$ 28.92	
IOS Charging Station	without having to move the Monitor/Keyboards/ Mouse connections each time.  Changing Station for multiple iPads to allow for upgrades across multiple devices concurrently.		DW17-183	26,101	2/2/2018	\$ 2,500 \$ 1,200	Yes Yes	\$ - \$ -	Merrimack Merrimack	No No	\$ 28.92 \$ 28.92	
	Digital Signage for Distribution allowing notices and schedules to be more prominently displayed		DW17-183	26,101	2/2/2018		Yes	s 1,270		No		
Digital Signage for Distribution	A pilot to determine whether a Virtual Desktop Infrastructure would be feasible for our environment		DW17-183	26,101	2/2/2018	\$ 2,000		4 1,4/0	Merrimack		\$ 28.92	
VDI Pilot Misc Hardware	Misc Hardware		DW17-183	26,101	2/2/2018	\$ 12,000 \$ 20,000		\$ - \$ 20,000	Merrimack Merrimack	No No	\$ 28.92 \$ 28.92	\$ -
Misc Software Website upgrades	Misc Software Website upgrades		DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 12,000 \$ 8,000	Yes Yes	\$ 12,000 \$ 8,000	Merrimack Merrimack	No	\$ 28.92 \$ 28.92	S -
Implement Customer Balances over the phone Click Resource Assistant	Implement Customer Balances over the phone Allow for the moving of customer Appointment from an generic resource to a named resource.		DW17-183 0.1 DSRR	26,101	2/2/2018	\$ 4,000 \$ -	Yes No	\$ 25,550	Merrimack Merrimack	No	\$ 28.92 \$ 28.92	\$ -
	The state of the s	1			1							
Veeam Backup Software	Replacement of existing backup software due to exorbitant vendor fees to keep original system running	5	0.1 DSRR			\$ -	No	\$ 25,550	Merrimack	No	\$ 28.92	\$ -

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

PWW QCPAC 2018 Capex 2019-2020-2021 6-30-19 update Page 7 of 11

2019 PWW QCPAC - 8

Pennichuck Water Works, Inc. DW 19-029 Projected 2019 QCPAC Capital Expenditures 2/9/2019, Revised 6/17/19 to reflect Tech Session DR's

			Financing	NHPUC Ord	er Date of	Approved	QCPA	c			QCPAC Eligible Property Tax	
Project Name/Description	Project Description	Work Order #	Docket No.	No.		er Budgeted Am			Taxable	Tax Rate (1)	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	\$ 40	.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		
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		000 Yes		Yes	\$ 28.85		
Meters (Growth) 5/8"-2" - Core & CWS (480)	Meters (Growth) 5/8"-2" - Core & CWS (480)		DW17-183	26,101	2/2/2018		000 Yes		Yes	\$ 28.85		
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		000 Yes		Yes	\$ 28.85		
Entrance Security Gate & Perimeter Fence	Entrance Security Gate & Perimeter Fence		DW17-183	26,101	2/2/2018		000 Yes		Yes	\$ 28.92		<u> </u>
Replace 13 yr Vac Trailer - Safety & Maint issue	Replace 13 yr Vac Trailer - Safety & Maint issue Spitbrook Rd Protectus Meter Upgrade		DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018		000 Yes 000 Yes	Merrimack Nashua	Yes Yes	\$ 28.92 \$ 27.81		
Protectus Meter Upgrade Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 550		Nashua	Yes	\$ 27.81		
Elm Street	Replace 875 LF of 6 inch CI with 12 inch DIPCL		DW17-183	26,101	2/2/2018		350 Yes	Nashua	Yes	\$ 27.81		<u> </u>
Monroe Street	Replace 310 LF of 4 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018		270 Yes		Yes	\$ 27.81		<u> </u>
W.Pearl Street	Replace 260 LF of 8 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018	\$ 138		Nashua	Yes	\$ 27.81		
Harvard Street	Replace 800 LF of 8 inch CI with 8 inch DIPCL		DW17-183	26,101	2/2/2018		.500 Yes		Yes	\$ 27.81		
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		Yes	\$ 27.81		
NWS Improvements - Manchester Street	Add 2700 LF of 24 inch DIPCL on Manchester St.						.000 Yes		Yes	\$ 27.81		
NWS Improvements - National Route 121 (Amherst)	Add 2200 LF of 12 inch DIPCL to close loop	1					000 Yes	Nashua	Yes	\$ 27.81		
NWS Improvements - Tinker Road	Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL	1	DWGTF		1		500 Yes		Yes	\$ 27.81		
NWS Improvements - Deerwood Drive & Amherst St. Intersection	Replace 1300 LF of 12 inch AC with 1300 LF of 24 inch DIPCL		Financing			\$ 467	500 Yes		Yes	\$ 27.81		<u> </u>
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking					\$ 635		Nashua	Yes	\$ 27.81		
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		s -	
Asset Management Water Modeling Consulting	Water Modeling Consulting		DW17-183	26,101	2/2/2018	\$ 30	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 1xannual 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		000 Yes	Various	Yes	\$ 28.85		
Chemical Feed pump replacements	Chemical Feed pump replacements		DW17-183	26,101	2/2/2018		000 Yes	Various	Yes	\$ 28.85		
Upgrade SCADA historian software, new hardware	upgrade SCADA historian software, new hardware		DW17-183	26,101	2/2/2018		000 Yes	Various	Yes	\$ 28.85		
Twin Ridge rebuild softener system, install radon treatment	Twin Ridge rebuild softener system, install radon treatment		DW17-183	26,101	2/2/2018		000 Yes		Yes	\$ 28.85	, , , , , , , , , , , , , , , , , , , ,	
Misc. Structural Improvements	Misc. Structural Improvements		DW17-183	26,101	2/2/2018		000 Yes	Various	Yes	\$ 28.85		
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW17-183	26,101	2/2/2018		500 Yes	Various	Yes	\$ 28.85		
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW17-183	26,101	2/2/2018		000 Yes		Yes	\$ 28.85		
WTP Structural/HVAC	WTP Structural/HVAC		DW17-183	26,101	2/2/2018		000 Yes		Yes	\$ 28.85		
Purchase new lab equipment	Purchase new lab equipment		DW17-183	26,101	2/2/2018	_	000 Yes	Nashua	Yes	\$ 28.85		<u> </u>
Miscellaneous Fencing and Security projects Replace Ferric Chloride Feed pump	Miscellaneous Fencing and Security projects  Replace Ferric Chloride Feed pump		DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018		000 Yes 000 Yes		Yes Yes	\$ 28.85 \$ 28.85		
Carbon media changeout-filters 1 & 2	Carbon media changeout-filters 1 & 2		DW17-183	26,101	2/2/2018	\$ 525			Yes	\$ 28.85		
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		000 Yes	Nashua	Yes	\$ 28.85		
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	_	000 Yes	Nashua	Yes	\$ 28.85		
Stump Pond Subwatershed assessment	Stump Pond Subwatershed assessment		DW17-183	26,101	2/2/2018		000 No	Merrimack	No	y 20.03	\$ -	Study - Amortized expense
Stump Pond Stormwater BMP	Stump Pond Stormwater BMP		DW17-183	26,101	2/2/2018		000 No	Merrimack	No		s -	BMP Engineering and Design
Public Education -Watershed signage	Public Education -Watershed signage		DW17-183	26,101	2/2/2018		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		000 Yes		Yes	\$ 28.85		
•	Install Fiber Conduit between Water Treatment Plant and Distribution to eliminate ongoing Comcast			·								
Fiber Conduit between WTP and Dist	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		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	having to make Maritan / Vanharada / Managarantiana and time		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		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		000 Yes	Merrimack	No		\$ -	
Misc Software	Misc Software		DW17-183	26,101	2/2/2018	-	000 Yes	Merrimack	No		\$	
Website upgrades	Website upgrades	ļ	DW17-183	26,101	2/2/2018		000 Yes		_		\$ -	
Implement Customer Balances over the phone	Implement Customer Balances over the phone		DW17-183	26,101	2/2/2018	\$ 4	000 No	Merrimack	No	1	\$ -	
		uck Water Works P				- \$ 15,462				se 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	Financing Work Order # Docket No.	NHPUC Orde No.	r 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	s -	
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	\$ +33 \$ -	
. 111/40 11 11/600		huck Water Works Projected 2020 Tota	,		- /	10	HIGHHIIACK	110	Ψ 20.92	\$ 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 Orde		approved eted 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			ure Financing Pet		\$	46,000	Yes	Various	Yes	\$ 28.85		
Renewed Services (20)	Replacement of failed services			ure Financing Pet		\$	92,000	Yes	Various	Yes	\$ 28.85		
Hydrants (10)	Replacement of non functional hydrants (Run rate) (8 YTD)		Fut	ure Financing Pet	ition	\$	50,000	Yes	Various	Yes	\$ 28.85	\$ 1,443	
Gates (10)	Replacement of Failed Gate Valves			ure Financing Pet		\$	40,000	Yes	Various	Yes	\$ 28.85	, , , , ,	
Radios (2750)	Replace out of warrantee failed radio meter readers			ure Financing Pet		\$	275,000	Yes	Various	Yes	\$ 28.85		
Meters (Growth) 5/8"-2" - Core & CWS (480)	Meters (Growth) 5/8"-2" - Core & CWS (480)			ure Financing Pet		\$	48,000	Yes	Various	Yes	\$ 28.85	. ,	
Meters 5/8"-6" Meter Exchange - Core & CWS (1000)	Meters 5/8"-6" Lead Meter Exchange - Core & CWS (1000)			ure Financing Pet		\$	100,000	Yes	Various	Yes	\$ 28.85		
New Utility Vehicle (2)	New Utility Vehicles to replace existing high mileage/maintenance vehicles			ure Financing Pet		\$	130,000	Yes	Merrimack	No	\$ 28.92	\$ -	
New Utility Van (2)	New Utility Vans to replace existing high mileage/maintenance vans			ure Financing Pet		\$	70,000	Yes	Merrimack	No	\$ 28.92	\$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade			ure Financing Pet		\$	22,000	Yes	Nashua	Yes	\$ 27.81		
New Vac/Valve Trailer	Replacement of 10yr old Vac for safety & Maintenance Reasons			ure Financing Pet		\$	70,000	Yes	Merrimack	No	\$ 28.92		
Residual paving from prior year main replacement	Residual paving from prior year main replacement			ure Financing Pet		\$	653,350	Yes	Nashua	Yes	\$ 27.81		
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL			ure Financing Pet		\$	210,650	Yes	Nashua	Yes	\$ 27.81		
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL			ure Financing Pet		\$	362,450	Yes	Nashua	Yes	\$ 27.81		
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL			ure Financing Pet		\$	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			ure Financing Pet		\$	104,720	Yes	Nashua	Yes	\$ 27.81	\$ 2,912	
St Lazare Street	Replace 415 LF of 2 inch CI with 4 inch DIPCL			ure Financing Pet		\$	100,980	Yes	Nashua	Yes	\$ 27.81	. ,	
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL			ure Financing Pet		\$	48,730	Yes	Nashua	Yes	\$ 27.81	\$ 1,355	
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL			ure Financing Pet		\$	96,140	Yes	Nashua	Yes	\$ 27.81		
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL			ure Financing Pet		\$	136,620	Yes	Nashua	Yes	\$ 27.81	. ,	
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL			ure Financing Pet		\$	112,530	Yes	Nashua	Yes	\$ 27.81	. ,	
Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL			ure Financing Pet		\$	1,320,000	Yes	Nashua	Yes	\$ 27.81		
City Sewer Projects	Replace CI with DICLP			ure Financing Pet		\$	550,000	Yes	Nashua	Yes	\$ 27.81		
Sawyer Street	Replace 1600 LF of 6 inch CI with 12 inch DIPCL			ure Financing Pet		\$	528,000	Yes	Nashua	Yes	\$ 27.81		
Woodward Street	Replace 360 LF 8 inch CI with 470 LF 8 inch DIPCL			ure Financing Pet		\$	155,100	Yes	Nashua	Yes	\$ 27.81		
Blosson Street	Replace 2400 LF of 6 inch CI and 8 inch CI with 2400 LF of 8 inch DIPCL			ure Financing Pet		\$	792,000	Yes	Nashua	Yes	\$ 27.81		
Linwood Street	Replace 960 LF of 6 inch CI with 8 inch DIPCL			ure Financing Pet		\$	316,800	Yes	Nashua	Yes	\$ 27.81	\$ 8,810	
Balcom Street	Replace 1240 LF 6 inch CI with 1240 LF 8 inch DIPCL			ure Financing Pet		\$	409,200	Yes	Nashua	Yes	\$ 27.81	\$ 11,380	
Euclid Avenue	Replace 425 LF 6 inch CI with 425 LF 8 inch DIPCL			ure Financing Pet		\$	140,250	Yes	Nashua	Yes	\$ 27.81	\$ 3,900	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL			ure Financing Pet		\$	264,000	Yes	Nashua	Yes	\$ 27.81		
Sargent Street	Replace 1900 LF 6 inch CI with 1900 LF 16 inch DIPCL			ure Financing Pet		\$	627,000	Yes	Nashua	Yes	\$ 27.81		
Courtland Street	Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL			ure Financing Pet		\$	386,100	Yes	Nashua	Yes	\$ 27.81		
Replace Engineering Pickup	Replace Engineering Pickup with > 150,000 Miles			ure Financing Pet		\$	36,000	Yes	Merrimack	No	\$ 28.92		
Replace Engineering SUV	Replace Engineering SUV with > 150,000 Miles			ure Financing Pet		\$	30,000	Yes	Merrimack	No	\$ 28.92		
Milford Booster Station	Replace/Relocate/Upgrade the Milford Booster Station (>2MGD)			ure Financing Pet		\$	660,000	Yes	Amherst	Yes	\$ 28.85	" /	
Investment in developer installed services at 1xannual revenue	Per tariff			ure Financing Pet		\$	60,000	Yes	Various	Yes	\$ 28.85		
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild			ure Financing Pet		\$	55,000	Yes	Various	Yes	\$ 28.85		
Well Pump replacements	Well Pump replacements			ure Financing Pet		\$	18,750	Yes	Various	Yes	\$ 28.85		
Chemical Feed pump replacements	Chemical Feed pump replacements			ure Financing Pet		\$	15,000	Yes	Various	Yes	\$ 28.85		
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS			ure Financing Pet		\$	15,000	Yes	Various	Yes	\$ 28.85		
Misc. Structural Improvements	Misc. Structural Improvements			ure Financing Pet		\$	20,000	Yes	Various	Yes	\$ 28.85		
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased			ure Financing Pet		\$	20,000	Yes	Various	Yes	\$ 28.85		
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical			ure Financing Pet		\$	30,000	Yes	Various	Yes	\$ 28.85		
Well Rehabilitation	Well Rehabilitation			ure Financing Pet		\$	50,000	Yes	Various	Yes	\$ 28.85		
WTP Structural/HVAC	WTP Structural/HVAC			ure Financing Pet		\$	10,000	Yes	Nashua	Yes	\$ 27.81		
Purchase new lab equipment	Purchase new lab equipment			ure Financing Pet		\$	20,000	Yes	Nashua	No	\$ 27.81		
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects			ure Financing Pet		\$	10,000	Yes	Various	Yes	\$ 28.85		
Replace Vehicle	Replace Vehicle			ure Financing Pet ure Financing Pet		\$	65,000	Yes	Nashua	No	\$ 27.81		
Replace Vehicle	Replace Vehicle					\$	65,000	Yes	Nashua	No	\$ 27.81		
Replace Vehicle	Replace Vehicle			ure Financing Pet		\$	40,000	Yes	Nashua	No	\$ 27.81		
Replace Vehicle	Replace Vehicle			ure Financing Pet		\$	40,000	Yes	Nashua	No	\$ 27.81		
Carbon Media changeout - filters 5 & 5	Carbon Media changeout - filters 5 & 5			ure Financing Pet		\$	525,000	Yes	Nashua	Yes	\$ 27.81	., ., ., .,	
Various projects	Various projects			ure Financing Pet		\$	300,000	Yes	Merrimack	No	\$ 28.85		
Replacement of CMMS System (Synergen)	Replacement of CMMS System (Synergen)			ure Financing Pet		\$	1,000,000	Yes	Merrimack	No	\$ 28.85		
	Pennichu	ck Water Works Pr	ojected 2021 Tot	al Capital Expen	diture Budget	-   \$	11,422,670		Projected P	roperty Tax Ex	pense 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

## PWW QCPAC Filing Exhibit 2 Page 6

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

Accrued Liabilities - Retainage	Balance	January-18	February-18	March-18	April-18	May-18	June-18	July-18	August-18	September-18	October-18	November-18	December-18	Balance
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)