Pennichuck Water Works, Inc. DW 22-xxx Computation of QCPAC Surcharge 2/14/2022

	Арр	roved DW19- Revenues	-084	QCPAC Capital A	For 2019	Q C Surcharge for Cap pital Additions	CPAC For 2020 bital Additions pro forma		PAC Surcharge r 2020 Capital Additions	Cap	PAC For 2021 ital Additions pro forma	fo	PAC Surcharge or 2021 Capital Additions	Capi	PAC For 2022 ital Additions pro forma	for	AC Surcharge 2022 Capital Addition	Capital	C For 2023 Additions forma	for 20	C Surcharge)23 Capital Iditions	Capita	C For 2023 Additions forma	QCPAC Surcharg for 2023 Capital Additions
City Bond Fixed Revenue Requirement (CBFRR)	Ş	7,729	,032	\$	-	\$ 7,729,032 \$	-	Ş	7,729,032	ş	-	ş	7,729,032	\$	-	\$	7,729,032			\$	7,729,032		:	7,729,03
DW19-084 Operating Expense Revenue Requirement	\$	21,296	,618 (1)	\$	416,593	\$ 21,713,211 \$	155,083	(4) \$	21,868,294	\$	175,423	(4) \$	22,043,718	(4) \$	288,585	(4) \$	22,332,303	\$	221,462 (4)	\$	22,553,764	ş	257,112 (4)	22,810,87
DW19-084 Annual Principal and Interest Payments	\$	6,176	,477 (2)	\$	854,442	\$ 7,030,919 \$	351,395	(5) \$	7,382,314	\$	394,345	(6) \$	7,776,659	s	778,703	(10) \$	8,555,362	\$	523,272 (10)	\$	9,078,634	\$	755,942 (6)	9,834,57
Principal and Interest Coverage Requirement			1.10 (3)			1.10			1.10				1.10				1.10				1.10			1.1
DW19-084 Principal and Interest Revenue Requirement	\$	6,794	,124			\$ 7,734,011		\$	8,120,546			\$	8,554,325			\$	9,410,898			\$	9,986,497			10,818,03
DW19-084 Revenue Requirement	\$	35,819	,774			\$ 37,176,254		\$	37,717,871			\$	38,327,075			\$	39,472,233			\$	40,269,293		:	41,357,94
DW19-084 Revenue Requirement less Other Revenues	ş	35,399	,062 (12)			\$ 36,755,541		Ş	37,297,159			\$	37,906,362			\$	39,051,521			\$	39,848,581			40,937,23
DW19-084 Revenue Requirement less Other Revenues less Fixed Special Contract Revenues	ş	34,792	,618 (8)			\$ 36,149,098		s	36,690,716	(8)		\$	37,299,919	(8)		\$	38,445,077			\$	39,242,138		:	40,330,78
Percent QCPAC Surcharge (7)						3.90%			1.56%				1.75%				3.29%				2.29%			3.13
Cumulative QCPAC Surcharge (11)						3.90%			5.46%				7.21%				10.50%				12.79%			15.92
Cumulative QCPAC monthly increase in average single family residential bill.						\$ 2.17		\$	3.04			\$	4.01			\$	5.84			\$	7.12		:	8.8
Average monthly single family residential bill with QCPAC.	\$	5.	5.65			\$ 57.82		\$	58.69			\$	59.66			\$	61.50			\$	62.77		:	64.5
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	NHPUC Order #26.425.																							

se and Payroll Tax Expenses approved in NHPUC Order #26,425.

 Operating Expense Revenue requirement is the sum of the Total Operating Expenses, Property Tax Expense, Amortization Expense and Payroll Tax Expenses approv
 Annual Principal and interest payments for PWW debt associated with all plant in service as approved in DW 19-084.
 Principal and interest coverage of 1.10 is a sapproved in DW 16-806.
 QCPAC operating expenses are based on the property taxes for used and useful plant added during the year
 Portion of Annual Principal and interest payments for debt associated with plant planet in service between 1/1/2020 and 12/31/2020 based on a
 QCPAC Principal and Interest expenses for Bonds to be sold in April 2022 to pay for 2012 (QCP's are based on
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 QCPAC Principal and Interest expenses for DWGTH financing are based on a
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 QCPAC principal and Interest expenses for IDM 2025 Bonds to be 2022, 2023 and 2024 QCP's are based on
 Cumulative surcharge percentage is based on total surcharge revenues collected divided by the revenues granted in DW 19-084 that are impacted by the QCPAC.
 30 year bond with a projected interest rate of
 4.056692%

 4.50%
 for 2021 through 2024 Capital Expenditures unless funding is via an SRF/DWGTF financing.
 30 Milford Annual Fixed Chg \$ 81,000 A-B Annual Fixed Chg \$ 371,430 PEU Annual Fixed Chg \$ 121,213 3.38% Hudson Annual Fixed Chg \$ 32,800 30 year bond with interest rate of 30 5.00% for 2022 through 2024 Capital Expenditures unless funding is via an SRF/DWGTF financing. \$ 420,712
 Monthly meter charge approved in DW 19-084 DW19-084

 Average Single Family Consumption per DW 19-084 (CCF) 7.77

 Volumetric Charge approved in DW 19-084 \$

 Ave. Single Family monthly bill with rates approved in DW 19-084 \$
 Impact on Single Family Residential Home:

4.056692% based on a bond issuance in April 2021

Pennichuck Water Works, Inc. DW 22-xxx 2019 used and useful QCPs 2/14/2022

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	2019 Capex Budget	Board Approved 2019 Capex Budget, Revised 8/24/19	QCPAC Surcharge	Final QCPAC eligible Project Costs as of 12/31/2019	Community	Taxable		QCPAC Eligible Property Tax Expense (Based on Qrtly Update) Explanation for Change/Addition/Deletion since Petition Filing
ew Services (10) enewed Services (20)	Single Family, Owner Build, New Homes Replacement of failed services	20 workorders 21, 22 & 23 workorders	DW17-183	26,101	2/2/2018	\$ 46,000		Yes	\$ 69,936		Yes	\$ 27.02	
lewed Services (20) lrants (10)	Replacement of non-functional hydrants	30 & 31 workorders	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 92,000 \$ 50,000		Yes Yes	\$ 101,648 \$ 40,209	Various Various	Yes	\$ 27.02 \$ 27.02	
s (10)	Replacement of Failed Gate Valves	12 & 13 workorders	DW17-183 DW17-183	26,101	2/2/2018	\$ 50,000 \$ 40,000	*	Yes	\$ 10,573		Yes	\$ 27.02 \$ 27.02	
s (2750)	Replace out of warrantee failed radio meter readers.	54 workorders	DW17-183 DW17-183	26,101	2/2/2018	\$ 40,000		Yes	\$ 48,942		Yes	\$ 27.02	
rs (Growth) 5/8"-2" - Core & CWS (480)	Meters (Growth) 5/8"-2" - Core & CWS (480)	50 workorders	DW17-183	26,101	2/2/2018	\$ 48,000	· /	Yes		Various	Yes	\$ 27.02	e 5.504
rs 5/8"-6" Lead Meter Exchange - Core & CWS (3000)	Meters 5/8"-6" Lead Meter Exchange - Core & CWS (3000)	50 workorders	DW17-183	26,101	2/2/2018	\$ 300,000		Yes	\$ 207,025	Various	Yes	\$ 27.02	
ince Security Gate & Perimeter Fence	Entrance Security Gate & Perimeter Fence	1901598	DW17-183	26,101	2/2/2018	\$ 75,000	\$ 75,000	Yes	\$ 66,204		Yes	\$ 28.86	
ce 13 yr Vac Trailer - Safety & Maint issue	Replace 13 yr Vac Trailer - Safety & Maintenance issue	1917721	DW17-183	26,101	2/2/2018	\$ 100,000	ş -	Yes	\$ 29,710	Merrimack	Yes	\$ 28.86	\$ 857 Then Company was leasing a vac machine for 2019. It was decided to buy out the lease.
ctus Meter Upgrade	Spitbrook Rd Protectus Meter Upgrade	n/a	DW17-183	26,101	2/2/2018	\$ 21,000	\$ 21,000	Yes	ş -	Nashua	Yes	\$ 26.23	\$ - Deferred until 2020.
Freeze Kits (2)	RoFrost Turbo 2 Electric Pipe Freeze Kts	1915135	DW17-183	26,101	2/2/2018	ş -	\$ 7,400	Yes	\$ 6,970	Nashua	No	\$ 26.23	 Existing Freeze kits have failed and not repairable 15+ years old.
Compactors (4)	Replacement of failed compactors unable to obtain repair parts.	1918551	DW17-183	26,101	2/2/2018	ş -	\$ 17,500	Yes	\$ 15,888		No	\$ 26.23	- 0
ork Digital Display for Distribution Department	Relocate & network display to Assignment room & new 75" display in Conference Room.	1917719	0.1 DSRR				\$ 2,700	No	\$ 2,597		No	\$ 28.86	
Caster Sander	Poly-Caster Sander	1917720	DW17-183	26,101	2/2/2018		-	Yes	\$ 7,460		No	\$ 28.86	
Dodge Ram 2500 (#313)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907613	0.1 DSRR			ş -	\$ 1,969	No	\$ 1,969		No	\$ 28.86	
Dodge Ram 2500 (#314)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907612	0.1 DSRR			Ş -	\$ 1,969	No	\$ 1,969		No	\$ 28.86	
Dodge Ram 2500 (#315)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907615	0.1 DSRR			ş -	\$ 2,542	No	\$ 2,542		No	\$ 28.86	
Dodge Ram Promaster 1500 Cargo Van (#347) 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 OCPAC.	1907987	0.1 DSRR 0.1 DSRR			3 - S	\$ 1,060 \$ 1.060	No	\$ 1,060 \$ 1,060		No	\$ 28.86 \$ 28.86	
Jodge Ram Promaster 1500 Cargo Van (#348) Dodge Ram Promaster 1500 Cargo Van (#349)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907988	0.1 DSRR 0.1 DSRR			\$	\$ 1,060	No	\$ 1,060		No	\$ 28.86 \$ 28.86	
Data Logging Equipment	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907989	0.1 DSRR 0.1 DSRR	-	1	\$	\$ 1,060 \$ 2,849	No	\$ 1,060		Yes	\$ 28.86 \$ 27.02	
		1607377, 1702856,				<i>ų</i> –	* -,						
n Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL.	1806433, 1901176 1702871, 1812907,	DW17-183	26,101	2/2/2018	\$ 550,000	\$ 615,000	Yes	\$ 661,270	Nashua	Yes	\$ 26.23	T7,345 Pavement contribution to the City of Nashua paid in 2018 (\$127,264).
reet	Replace 875 LF of 6 inch CI with 12 inch DIPCL.	1901599 1702866, 1812908,	DW17-183	26,101	2/2/2018	\$ 559,350	\$ 255,000	Yes	\$ 373,328	Nashua	Yes	\$ 26.23	9,792 Pavement contribution to City of Nashua of \$67,650 included.
se Street	Replace 310 LF of 4 inch CI with 8 inch DIPCL.	1901602	DW17-183	26,101	2/2/2018	\$ 122,270	\$ 120,000	Yes	\$ 97,541	Nashua	Yes	\$ 26.23	2,558 Pavement contribution to City of Nashua of \$18,000 included. Connecting Nashua City Hall sprinkler connection that was missed during the Elm St project. Also replaces
en Street	Replace 74 LF of 8" CIP with 8 inch DIPCL and reconnect Gty Hall Fire serviced missed during Elm St work.	1918487 1702869, 1812909,	DW17-183	26,101	2/2/2018	Ş -	Ş -	Yes	\$ 61,918	Nashua	Yes	\$ 26.23	a portion of the Garden Street water main. Per City almost all work had to be performed on Sunday nights. \$ 1,624 Final paving in Spring 2020 \$18,000 not included.
rl Street	Replace 340 LF of 8" CIP with 120 LF of 12" DIPCL and 220 LF of 8" DIPCL.	1901603	DW17-183	26,101	2/2/2018	\$ 138,050	\$ 140,000	Yes	\$ 178,120	Nashua	Yes	\$ 26.23	\$ 4,672 Pavement contribution to City of Nashua of \$27,200 included.
d Street	Replace 800 LF of 8 inch CI with 8 inch DIPCL.	1814742, 1901604	DW17-183	26,101	2/2/2018	\$ 247,500	\$ 249,200	Yes	\$ 259,668		Yes	\$ 26.23	
Iollis Street Check Valve Pit	Install at the int of W. Hollis St and Panther Dr.	n/a	DW17-183	26,101	2/2/2018	\$ 88,000	ş -	Yes		Nashua	Yes	\$ 26.23	\$ - Deferred to future year to accommodate additional water main projects.
mprovements - Manchester Street	Add 2700 LF of 24 inch DIPCL on Manchester St.	1806805, 1900422				\$ 660,000	\$ 660,000	Yes	\$ 507,141	Nashua	Yes	\$ 26.23	Added security fence replacement (1,700 LF) along Manchester Street - some work will carry over into 2020 \$ 13,302 included.
mprovements -Route 101A and Route 121 (Amherst)	Add 2200 LF of 12 inch DIPCL to close loop.	1806810, 1901607	DWGTF			\$ 550,000	\$ 550,000	Yes	\$ 548,252	Nashua	Yes	\$ 26.23	\$ 14,381 Adjusted cost based on final installed materials in 2020 - some work will carry over into 2020.
Improvements - Tinker Road	Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL.	1702835, 1806434, 1900421	Financing	26,197	12/3/2018	\$ 522,500	\$ 522,500	Yes	\$ 369,378	Nashua	Yes	\$ 26.23	\$ 9,689 Adjusted cost based on final installed materials in 2020 - some work will carry over into 2021.
1		1806808 1901609	DW18-133			\$ 522,500 \$ 467,500	1		1			\$ 26.23	
Improvements - Deerwood Drive & Amherst St. Intersection 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.	1806808, 1901609 1806806, 1901610	-			\$ 467,500 \$ 635,800	•	Yes	\$ 158,469 \$ 1,302,871		Yes Yes	\$ 26.23 \$ 26.23	
Improvements - Deerwood Dr. Northwest Bivd Loop Improvements Ponemah Rd/Route 101A Loop	Add 2400 LF of 20 men FIDPE including KK pipe jacking. Add 2200 LF of 12 inch DIPCL to close two loop major dead ends.	1901611	1			\$ 635,800	- /	Yes	\$ 1,302,671	Nashua	Yes	\$ 26.23	
Improvements - Engineering Design and Inspection	Engineering and Inspection of NW System watermain improvements.	1501011	0.1 DSRR			Incuded in NWS Improvemts above	Incuded in NWS Improvemts above	No	\$ 174,347	Nashua	Yes	\$ 26.23	
f Nashua Sewer - Chase Street	Replace 470 LF of 6 inch CIP with 470 LF of 6 inch DIPCL.	1829925, 1900484	DW17-183	26,101	2/2/2018	\$ 176,000	-	Yes	\$ 175,370	Nashua	Yes	\$ 26.23	\$ 4,600 Project Complete
f Nashua Sewer - Ash Street	Replace 710 LF of 6 inch CIP with 710 LF of 12 inch DIPCL.	1814367, 1915975	DW17-183	26,101	2/2/2018	\$ 242,000		Yes	\$ 156,252		Yes	\$ 26.23	
f Nashua Sewer - Lake Street	Replace 2950 LF of 6 inch CI with 12 inch DIPCL.	1814740, 1915976	DW17-183	26,101	2/2/2018	\$ 990,000	\$ 1,710,500	Yes	\$ 1,608,850		Yes	\$ 26.23	
f Nashua Paving - Vilna St.	Replace 15 LF of 1.5 inch steel with 2 inch HDPE for paving program.	1915860	DW17-183	26,101	2/2/2018	\$ -	\$ 16,750	Yes	\$ 17,400		Yes	\$ 26.23	
onnection to BWC	Carryover Costs to 2018 projects not recovered in prior OCPAC.	1900429	0.1 DSRR			s -	\$ 3,400	No	s -	Nashua	Yes	\$ 26.23	
ward Avenue	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1910117	0.1 DSRR			\$ -	\$ 2,200	No	ş -	Nashua	Yes	\$ 26.23	\$ - Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Street	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1910116	0.1 DSRR			ş -	\$ 6,890	No	ş -	Nashua	Yes	\$ 26.23	\$ - Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
y Street	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1909270	0.1 DSRR			\$ -	\$ 20,209	No	\$ 20,209		Yes	\$ 26.23	
Street	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1906988	0.1 DSRR			ş -	\$ 233	No	\$ 233		Yes	\$ 26.23	
peare HP System Exp	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1901942	0.1 DSRR			ş -	\$ 257	No	\$ 257		Yes	\$ 26.23	
f Nashua Paving - Mill St.	Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main.	1915006	0.1 DSRR			ş -	\$ 17,900	No	\$ 17,321	Nashua	No	\$ 26.23	
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	ş -	\$ 58,580	Yes	\$ 51,988	Nashua	Yes	\$ 26.23	Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - 1,364 complete.
Nashua Paving - Salvail Ct	Replace 1.5" Steel water main and install a 4" DIPCL Water Main (contaminated area).	1908317	DW17-183	26,101	2/2/2018	ş -	\$ 95,000	Yes	\$ 79,258	Nashua	Yes	\$ 26.23	
f Nashua Paving - Nutt St - Final Paving and restoration	Pavement restoration and final landscaping	1702842, 1907682	DW17-183	26,101	2/2/2018	ş -	\$ 13,000	Yes	\$ 6,549		Yes	\$ 26.23	\$ 172 \$6,240 of this will be recovered from Liberty Gas.
f Nashua Paving - Cheshire St - Final Cleanup	Fence repair and site clean up	1908353	DW17-183	26,101	2/2/2018	-	\$ 1,400	Yes	\$ 486		Yes	\$ 26.23	
Nashua - Simon St at Will St Upgrade	Abandon pump station pit and clean up intersection pipe work for improved flows.	1915974	DW17-183	26,101	2/2/2018	*	\$ 215,100	Yes	\$ 174,754		Yes	\$ 26.23	
Nashua Paving - Main St.	Main St final paving at intersection with Factory St. Carry over from 2018.	1900348, 1915859	DW17-183	26,101	2/2/2018		\$ 24,500	Yes	\$ 1,402		Yes	\$ 26.23	
Nashua Paving - Lemon St - Carry over from 2017	Paving only - Carry over from 2017.	1702875, 1915858	DW17-183	26,101	2/2/2018		\$ 24,850 \$ 27,000	Yes	\$ 18,316		Yes	\$ 26.23	
f Nashua Paving - Lowell St - Carry over from 2017	Paving only - Carry over from 2017.	1915857	DW17-183	26,101	2/2/2018	*	\$ 37,000 \$ 10,000	Yes	\$ 37,084		Yes	\$ 26.23	- 10 1,
f Nashua Paving - Green St - Carry over from 2017 f Nashua Paving - Beard St - Carry over from 2017	Paving only - Carry over from 2017. Paving only - Carry over from 2017.	1915844 1915845	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018		\$ 10,000 \$ 25,900	Yes Yes	\$ 8,906 \$ 21,689		Yes Yes	\$ 26.23 \$ 26.23	
Nashua Paving - Deard St - Carry over from 2017	Paving only - Carry over from 2017. Paving only - Carry over from 2018.	1915843	DW17-183 DW17-183	26,101	2/2/2018		\$ 23,900 \$ 20,500	Yes	\$ 21,689 \$ 10,600		Yes	\$ 26.23	
f Nashua Paving - Warren St - Carry over from 2017	Paving only - Carry over from 2017.	1702870, 1915842	DW17-183	26,101	2/2/2018		\$ 19,500	Yes	\$ 16,762		Yes	\$ 26.23	
nack River Intake	Year Round Raw Water Intake from Merrimack River.	1502180, 1601369, 1701489, 1807360, 1901612, 1908505	DWGTF Financing DW19-026	26,247	5/3/2019	\$ 5,500,000	\$ 6,600,000	Yes	\$ 6,299,764	Merrimack	Yes	\$ 28.86	Bids higher than Engineers estimate due to tight contractor market and changes in final permit requirements \$ 181,811 that impacted initial design that engineers estimate was based on. An estimated amount of \$362,000 of clean up work to be carryed into 2020.
Management Outside GIS Consulting Services	Outside GIS Consulting Services	1900414	DW17-183		2/2/2018	\$ 60,000			\$ 7,961		No	\$ 27.02	
Management Water Modeling Consulting	Water Modeling Consulting	1900414	DW17-183	26,101	2/2/2018	\$ 36,000		Yes	<u>\$</u>	Various	No	\$ 27.02	
Management Trimble R2 Units	Trimble R2 Units	1900414	DW17-183	26,101	2/2/2018	\$ 14,000	- /	Yes	5 -	Various	Yes	\$ 27.02	
I/Synergen Upgrade Cost & Functionality Study	WAM/Synergen Upgrade Cost & Functionality Study Per tariff	1900568, 1910219	0.1 DSRR	26 101	2/2/2019	\$ -	\$ 45,000 \$ 60,000	No	\$ 27,804 \$ 00,434		No	\$ 27.02 \$ 27.02	
ment in developer installed services at 1xannual revenue	Per tariff Replace Totaled 2015 Ford Escape	n/a 1907481	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 60,000	\$ 60,000 \$ 23,998	Yes	\$ 90,434 \$ 23,998		Yes No	\$ 27.02 \$ 28.86	
Dam reconstruction and engineering	Bower Dam reconstruction and engineering	1824545, 1900432	0.1 DSRR	20,101	2/2/2010	\$ 25,000	- /	No	\$ -	Merrimack	No	\$ 28.86 \$ 28.86	
Dam Letter of Deficiency design/analysis	Power Dam reconstruction and engineering Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1901734, 1907078	0.1 DSRR			* 23,000	\$ 35,000	No	ş _	Merrimack	No	\$ 28.86	
Dam Letter of Deficiency design/analysis	Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1907076	0.1 DSRR				\$ 40,000	No	ş -	Merrimack	No	\$ 28.86	
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Denotes Down and some of / shulld	Barata Duna and anna (abaild	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	¢ 10.000	\$ 15,445	V	8 11.200 Variana	Ver	s 27.02 s	204 0
Booster Pump replacement/rebuild Booster Pump replacement/rebuild	Booster Pump replacement/rebuild WTP Rebuild pump end, Intermediate Pump #3	1914986	DW17-183	26,101	2/2/2018	\$ 40,000	\$ 15,445 \$ 24,555	Yes	\$ 11,260 Various \$ 24,554 Nalshua	Yes Yes	\$ 27.02 \$ \$ 26.23 \$	304 0 pumps replaced, 5 rebuilds through 12/31/2019. 644 Pump Bearings failed on Intermediate Booster Pump at WTP.
Booster Pump replacement/reduid	W I P Rebuild pump end, Intermediate Pump #3		DW1/-185	26,101	2/2/2018	3	\$ 24,555	Y es	3 24,554 INaishua	res	\$ 26.23 \$	644 Pump Bearings tailed on Intermediate Booster Pump at WTP.
Well Pump replacements	Well Pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 15,000	\$ 15,000	Yes	\$ 16,995 Various	Yes	\$ 27.02 \$	459 4 replaced through 12/31/2019.
wen'r unip replacemento	wei i ump replacemento	60, 61, 62 & 63				ę 15,000	ę 15,000	105	¢ 10,000 (allous	100	¢ 2/102 ¢	107
Chemical Feed pump replacements	Chemical Feed pump replacements	workorders	DW17-183	26,101	2/2/2018	\$ 10,000	s 10.000	Yes	S - Various	Yes	\$ 27.02 \$	- No replacements occurred during 2019.
Upgrade SCADA historian software, new hardware	Upgrade SCADA historian software, new hardware	n/a	DW17-183	26,101	2/2/2018	\$ 150,000	\$ 150,000	Yes	\$ - Various	Yes	\$ 27.02 \$	 Scope of project was more clearly defined resulting in a reduction in cost.
Twin Ridge rebuild softener system, install radon treatment.	Twin Ridge rebuild softener system, install radon treatment.	1907731	DW17-183	26,101	2/2/2018	\$ 50,000	\$ 50,000	Yes	\$ 11,112 Plaistow	Yes	\$ 25.93 \$	
Misc. Structural Improvements	Misc. Structural Improvements	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	\$ 10,700	Yes	\$ - Various	Yes	\$ 27.02 \$	 Reduced by replacement of failed Fire Alarm CPU.
Misc. Structural Improvements	Replace Fire Alarm System CPU.	1907102, 1910221	DW17-183	26,101	2/2/2018	ş -	\$ 9,300	Yes	\$ 9,251 Nashua	Yes	\$ 26.23 \$	243 Fire Alarm CPU failed due to electrical surge.
Misc. Structural Improvements	Replace Natural Gas Heater, High Pine Station.	1917491	DW17-183	26,101	2/2/2018			Yes	\$ 4,050 Nashua	Yes	\$ 26.23 \$	106 Failed heater. Part of run rate Misc Structural Improvements.
				26,101	2/2/2018							
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	n/a	DW17-183			\$ 17,500		Yes	\$ - Various	Yes	\$ 27.02 \$	-
Miscellaneous Equipment Purchased	Purchase 2 Gas Monitors for WS Confined Space Program.	1907611	DW17-183	26,101	2/2/2018	Ş -	ę 1,500	Yes	\$ 4,568 Nashua	Yes	\$ 26.23 \$	
Miscellaneous Equipment Purchased	Purchase Entry Tripod and Winch for WS Confined Space Program.	1910296	DW17-183	26,101	2/2/2018	ş -	\$ 3,004	Yes	\$ 3,004 Nashua	Yes	\$ 26.23 \$	79 Routine Miscellaneous Equipment purchase
Miscellaneous Equipment Purchased	Replace Chlorine Analyzer, Twin Ridge	1915362	DW17-183	26,101	2/2/2018	\$ - ·	ş -	Yes	\$ 4,449 Nashua	Yes	\$ 26.23 \$	117 Routine Miscellaneous Equipment purchase
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a	DW17-183	26,101	2/2/2018	\$ 30,000	\$ 30,000	Yes	\$ - Various	Yes	\$ 27.02 \$	
Miscellaneous SCADA/Electrical	Replace VFD, Pump #1 Bowers Landing	1916547	DW17-183	26,101	2/2/2018	\$ - ·	ş -	Yes	\$ 2,118 Various	Yes	\$ 27.02 \$	57
WTP Structural/HVAC	WTP Structural/HVAC	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10,000	Yes	\$ - Nashua	Yes	\$ 26.23 \$	· · · · · · · · · · · · · · · · · · ·
WTP Structural/HVAC	Replace Heat Exchanger, WIP Office	1917470	DW17-183	26,101	2/2/2018	\$ - ·	ş -	Yes	\$ 8,328 Nashua	Yes	\$ 26.23 \$	
Purchase new lab equipment	Purchase new lab equipment	n/a	DW17-183	26,101	2/2/2018	\$ 20,000		Yes	\$ - Nashua	Yes	\$ 26.23 \$	 Reduced by purchase of HACH DR 900 below
Purchase new lab equipment	HACH DR 900	1908450	DW17-183	26,101	2/2/2018	\$ -	\$ 1,500	Yes	\$ 1,435 Nashua	Yes	\$ 26.23 \$	38
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	\$ 10,000	Yes	\$ - Various	Yes	\$ 27.02 \$	•
Miscellaneous Fencing and Security projects	WTP Perimeter Fence Carryover	1901608	DW17-183	26,101	2/2/2018	Ş - :	ş -	Yes	\$ 6,744 Various	Yes	\$ 27.02 \$	182
Purchase new vehicle for Water Supply Electrician.	Purchase of a new vehicle for the Water Supply Electrician.	1918314	DW17-183	26,101	2/2/2018	ş -	ş -	Yes	\$ 28,897 Nashua	No	\$ 26.23 \$	Unbudgeted. Made necessary due to the premature retirement of 2 dept. vehicles.
Replace Ferric Chloride Feed pump.	Replace Ferric Chloride Feed pump.	1901613	DW17-183	26,101	2/2/2018	Ş - :	ş -	Yes	\$ 1,713 Nashua	Yes	\$ 26.23 \$	45 Pump rebuild was determined to be best course.
												New PFAS regulations require that all filter media be changed out to ensure compliance with the new PFO
Carbon media changeout-filters 1 & 2.	Carbon media changeout-filters 1 & 2	1901614 & 1916780	DW17-183	26,101	2/2/2018	\$ 1,000,000	\$ 1,050,000	Yes	\$ 990,662 Nashua	Yes	\$ 26.23 \$	
												month intervals. 8 of 12 filters to be replaced in 2019, remaining four filters to be replaced in Spring 2020.
Add 3rd pump at Main Dunstable Booster, replace 1 existing.	Add 3rd pump at Main Dunstable Booster, replace 1 existing.	n/a	DW17-183	26.101	2/2/2018	\$ 120,000	s -	Yes	\$ - Nashua	Yes	\$ 26.23 \$	- Addition of 3rd pump deferred or elminated until future date subject to performance of rebuilt 2nd pump.
Rebuild Main Dunstable pump #1	Rebuild Pump #1, Main Dunstable, Nashua	1901615	DW17-183	26,101	2/2/2018	S	s -	Yes	\$ 15,995 Nashua	Yes	\$ 26.23 \$	
	Replace 20 year old package booster station pumps and piping. Piping is steel which is beginning				a /a /aorro						-	
Replace Kessler Farm booster pump package.	to pit.	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	\$ 75,000	Yes	\$ - Nashua	Yes	\$ 26.23 \$	 Project deferred until 2020
Stump Pond Subwatershed assessment	Stump Pond Subwatershed assessment	n/a	0.1 DSRR			\$ 25,000	\$ 25,000	No	\$ - Merrimack	No	\$ 28.86 \$	 Study - Pay for with 0.1 DSRR
Stump Pond Stormwater BMP	Stump Pond Stormwater BMP	1908373	0.1 DSRR			\$ 20,000	\$ 20,000	No	\$ 1,310 Merrimack	No	\$ 28.86 \$	 Study - Pay for with 0.1 DSRR
Public Education -Watershed signage	Public Education -Watershed signage	n/a	0.1 DSRR			\$ 20,000		No	Merrimack	No	\$ 28.86 \$	 Study - Pay for with 0.1 DSRR
Replace 2 Hach Turbidimeters and associated control module	Replace 2 Hach Turbidimeters and associated control module.	1901618	DW17-183	26,101	2/2/2018	\$ 10,000		Yes	\$ 7,978 Nashua	Yes	\$ 26.23 \$	209
Camera System Upgrade	Carryover Costs from 2018 Project.	1819073, 1900413	0.1 DSRR			Ş -	\$ 7,500	No	\$ 9,756 Nashua	Yes	\$ 26.23 \$	256 Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Dredging Feasibility Study	Carryover Costs from 2018 study.	1807145, 1901939	0.1 DSRR			\$ - ·	\$ 24,600	No	\$ 39,520 Merrimack	No	\$ 28.86 \$	- Study - Pay for with 0.1 DSRR
Source Water Protection Study	Carryover Costs from 2018 study.	1901740	0.1 DSRR			\$ - ·	\$ 12,000	No	\$ 11,000 Merrimack	No	\$ 28.86 \$	 Study - Pay for with 0.1 DSRR
Aquatic Vegetation Assessment	Carryover Costs from 2018 study.	1807147, 1906080	0.1 DSRR			Ş -	\$ 4,200	No	\$ 9,545 Merrimack	No	\$ 28.86 \$	 Study - Pay for with 0.1 DSRR
Fiber Conduit between WTP and Dist	Install Fiber Conduit between Water Treatment Plant and Distribution to eliminate ongoing	1901619	DW17-183	26,101	2/2/2018	\$ 40,000	\$ 40,000	Yes	\$ 22,896 Nashua	Yes	\$ 26.23	
	Comcast Ethernet line to one of the buildings.				2/2/2010						ş	601
Munis FER Enhancements Wireless Access Points for Main Office	Munis FER Enhancements Wireless Access Points for Main Office	n/a	DW17-183 DW17-183	26,101	2/2/2018	\$ 35,000 \$ 14,000		Yes	\$ - Merrimack	No	\$ 28.86 \$ \$ 28.86 \$	No upgrades enhancements will be completed in 2019. Monies moved to Veeam Backup Project.
Wireless Access Points for Main Office		n/a	DW1/-185	26,101	2/2/2018	\$ 14,000	ş -	Yes	\$ - Merrimack	NO	\$ 28.86 \$	- Monies moved to veeam Backup Project.
KVM for Data Center	Keyboard Video Mouse for Data Center so that multiple servers can be accessed by one console without having to move the Monitor/Keyboards/ Mouse connections each time.	n/a	DW17-183	26,101	2/2/2018	\$ 2,500	e	Ves	\$ - Merrimack	No	\$ 28.86 \$	
IOS Charrier Sertion	Charging Station for multiple iPads to allow for upgrades across multiple devices concurrently.	n/a n/a	DW17-183	26.101	2/2/2018	\$ 2,500		Yes		No	\$ 28.86 \$	
IOS Charging Station	Charging Station for multiple iPads to allow for upgrades across multiple devices concurrently.	n/a	DW1/-185	20,101	2/2/2018	\$ 1,200	ş -	res	\$ - Merrimack	NO	\$ 28.80 \$	•
Digital Signage for Distribution	Digital Signage for Distribution allowing notices and schedules to be more prominently displayed.	1908376	0.1 DSRR	26,101	2/2/2018	\$ 2,000	\$ 1,270	No	\$ - Merrimack	No		
											\$ 28.86 \$	
	A pilot to determine whether a Virtual Desktop Infrastructure would be feasible for our		DW17-183	26,101	2/2/2018							
VDI Pilot	environment.	n/a				\$ 12,000	ş -	Yes	\$ - Merrimack	No	\$ 28.86 \$	-
Misc Hardware	Misc Hardware	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	\$ 20,000	Yes	\$ - Merrimack	No	\$ 28.86 \$	
Misc Hardware	Mount in Vehicles	1908308	0.1 DSRR				\$ -	No	\$ 1,248 Merrimack	No	\$ 28.86 \$	-
Misc Hardware	2 iPad Pros for IS Testing	1908309	0.1 DSRR			3	\$ -	No	\$ 2,298 Merrimack	No	\$ 28.86 \$	•
Misc Software	Misc Software	n/a	DW17-183	26,101	2/2/2018	\$ 12,000		Yes	\$ - Merrimack	No	\$ 28.86 \$	•
Website upgrades	Website upgrades	n/a	DW17-183 DW17-183	26,101 26,101	2/2/2018	\$ 8,000	ę 0,000	Yes	\$ - Merrimack	No	\$ 28.86 \$	
Implement Customer Balances over the phone	Implement Customer Balances over the phone.	n/a	DW17-183	26,101	2/2/2018	\$ 4,000	\$ 25,500	Yes	\$ - Merrimack	No	\$ 28.86 \$	- Deferred
Click Resource Assistant	Allow for the moving of customer Appointment from an generic resource to a named resource.	1907952	0.1 DSRR			\$ -	\$ 22,828	No	\$ 22,828 Merrimack	No	\$ 28.86 \$	
Database Server License for GIS and other Apps	Purchase Server license for Virtual Environment.	1915920	DW17-183	26,101	2/2/2018	\$ - :	s -	Yes	\$ 7,305 Merrimack	No	\$ 28.86 \$	 Previously licensed software was not suitable for Virtual environment.
	Replacement of existing backup software due to exorbitant vendor fees to keep original system			1 í			-		a 45 520 34 1 1	N		
Veeam Backup Software	running.	1909216	0.1 DSRR			\$ -	\$ 25,550	No	\$ 15,530 Merrimack	No	\$ 28.86 \$	-
New RCO Manager Computer	New RCO Manager Computer	1917001	0.1 DSRR			s -	,	No	\$ 1,797 Merrimack	No	\$ 28.86 \$	- Replace failed desktop computer.
	Kessler Farm Tank Design	1915117	0.1 DSRR	26,101	2/2/2018	s -		No	\$ 36.355 Nashua	No	\$ 26.23 \$	
Kessler Farm Tank Design			DW17-183	26,101	2/2/2018	s -	s -	Yes	\$ 33,586 Merrimack	No	\$ 28.86 \$	
Kessler Farm Tank Design Retainage	Payment of Retainage for projects that were used and useful in 2018.				=, =, =010				ę 00,000			
Kessler Farm Tank Design Retainage Short term interest on the PWW Fixed Asset Line of Credit.	Payment of Retainage for projects that were used and useful in 2018. Capitalized interest incurred on FALOC draws to fund 2019 Capex from 1/1/2019 thru 4/2/2020).	DW17-183	26,101	2/2/2018	S - 1	s -	Yes	\$ 230,645 Various	No	5	-
Retainage Short term interest on the PWW Fixed Asset Line of Credit.	Capitalized interest incurred on FALOC draws to fund 2019 Capex from 1/1/2019 thru 4/2/2020	1916551	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/3/2018	\$ - \$ -	Ŧ	Yes	\$ 230,645 Various \$ 13,804 Merrimack	No No	\$ 28.86 \$	
Retainage				26,101		Ŧ	Ŧ		4 -00,010 101000	- 10		

	Total Projected PWW QCPAC Capex for 2019 - \$ 16,832,524 \$ 14,898,170 \$ Amount funded by DWGTF Merrimack River Intake - \$ 8,819,800 \$ \$ Amount funded by DWGTF Northwest System Improvements - \$ Amount to be funded by 2020 Bond Issue - \$ 8,012,724 \$ 6,078,370 \$	15,374,227 5,359,625 2,859,754 7,154,848
 Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000 Projects funded by 0.1 DSRR funds are not QCPAC eligible because the cash to fund these projects is not bonded. Total 2019 Capex to be funded by 0.1 DSRR funds - 	12/31/2019 \$ 427,640 The 12/31/2019 0.1 DSRR amount has been increased by	
	to reflect the Staff DR21 response indicating that \$ 21,175 of the project costs being funded with DWGTF is being funded with 0.1 DSRR monies.	
3. Portion of Annual Principal and interest payments for debt associated with plant placed in service between 1/1/2019 and 12/31/2019 based on a	30 year bond with an actual total all in interest rate of 4.261869% resulting in annual P&I expenses of \$	427,022
4. QCPAC Principal and Interest expenses for DWGTF financing for the North West System improvements are based on a	30 year bond with interest rate of 2.704% resulting in annual P&I expenses of \$	140,376
5. QCPAC Principal and Interest expenses for DWGTF financing for the Merrimack River Intake are based on a	30 year bond with interest rate of 3.380% resulting in annual P&I expenses of \$	287,045

Pennichuck Water Works, Inc. DW 22-xxx 2020 used and useful QCPs 2/14/2022

								Estimated Project	Estimated Project	Estimated Project					QCPAC Eligible	
Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Board Approved 2020 Capex Budge		Cost as of 6/30/2020	Cost as of 9/30/2020	Cost as of 11/30/2020	Final Project cost as of 12/31/2020	Community	Taxable	2020 Tax Rate (1)	Property Tax Expense	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
New Services (10)	Single Family, Owner Build, New Homes	20 workorders	DW17-183	26,101	2/2/2018	\$ 50,000	-	\$ 25,000	\$ 25,000	\$ 31,090	\$ 36,746	Various	Yes	\$ 28.45		5 6 new services through 12/31/20.
Renewed Services (20)	Replacement of failed services.	21, 22 & 23 workorder	s DW17-183	26,101	2/2/2018	\$ 110,000		\$ 60,000	\$ 75,000			Various	Yes	\$ 28.45		5 19 Renewed Services Installed through 12/31/2020.
Hydrants (10) Gates (10)	Replacement of non-functional hydrants (Run rate) (8 YTD) Replacement of Failed Gate Valves	30 & 31 workorders 12 & 13 workorders	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 60,000 \$ 40,000		\$ 44,000 \$ \$ 40,000 \$	\$ 55,000 \$ 50,000			Various Various	Yes	\$ 28.45 \$ 28.45		9 Hydrants Repaired/Replaced through 12/31/2020. 12 Gates Repaired/Replaced through 12/31/2020.
Radios (560)	Replacement of out of Warrantee Failed Radios (280), New Meters for new customers (280).	54 workorders	DW17-183	26,101	2/2/2018	\$ 58,000		\$ 40,000	\$ 50,000		\$ 50,832	Various	Yes	\$ 28.45	\$ 1,446	5 498 Radios Installed/Replaced through 12/31/2020.
Meters (Growth) 5/8"-2" - Core & CWS (280)	Meters (Growth) 5/8"-2" - Core & CWS (280)	50 workorders	DW17-183	26,101	2/2/2018	\$ 29,000		\$ 55,300	\$ 91,000	§ 96,000	\$ 94,393	Various	Yes	\$ 28.45		5 631 Meters Installed/Replaced through 12/31/2020.
Meters 5/8"-6" - Replace faled meters - Core & CWS (200) Replace Mud sucker pump	Meters 5/8"-6" failed meters - Core & CWS (200) Replace 15+ year old ditch pump.	50 workorders 2005200	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 21,000 \$ -	Yes Yes	\$ 6,356 5	\$ 6,356	\$ 6,356	\$ 6,356	Various Various	Yes	\$ 28.45 \$ 28.45		Total included in row above.
Replacement Utility Truck	Replacement for #47 - 2006 Ford f-350, 130K miles Does not pass inspection.	2006391	DW17-183	26,101	2/2/2018	\$ 70,000		\$ 70,000	\$ 70,000	\$ 70,000		Merrimack	No	\$ 28.52		
Replacement Utility Truck	Replacment for #76 - 2008 Ford F-350, 150K miles, Does not pass inspection.	2006390	DW17-183	26,101	2/2/2018	\$ 70,000		\$ 70,000	\$ 70,000			Merrimack	No	\$ 28.52	-	
Replacement Utility Truck	Replacement for #4- 2010 Ford f-350, 140K miles Does not pass inspection.	2006389	DW17-183	26,101	2/2/2018	\$ 70,000		\$ 70,000	\$ 70,000	\$ 7,000	\$ 68,429	Merrimack	No	\$ 28.52	-	
Valve Turner & Vac Truck Foreman's Truck	Replacement for #60 - 14 Year Vac Trailer w/excessive rot, will not pass inspection. Replacement for #59 - 2011 International 120K Miles High Hours Electrical hody issues	n/a 2004436	DW17-183 DW17-183	26,101 26.101	2/2/2018 2/2/2018	\$ 160,000 \$ 140,000		\$ - 5 \$ 140.000	\$ - \$ 140.000	\$ - \$ 140.000	e 70.207	Merrimack	No	\$ 28.52 \$ 28.52		Deferred. Not avialable due to impact of COVID19 on manufacturing. Deferred until 2020
Foreman's Truck Locker Room Benches @ Distribution Facility	Permanent Benches for Male & Female locker rooms.	2004436 n/a	DW17-183 DW17-183	26,101	2/2/2018	\$ 140,000		\$ 140,000 S \$ 7,500 S	\$ 140,000 \$ -	\$ 140,000 \$ -	\$ 79,206	Merrimack	Yes	\$ 28.52 \$ 28.52	*	Defered until 2020. Defered until 2021 due to COVID19 delays.
Locker Room Deep Wash Sinks	Deep stainless wash sinks to replace existing sinks in male & female locker rooms.	n/a	DW17-183	26,101	2/2/2018	\$ 7,500	Yes	\$ 7,500	\$ 7,500	ş -		Merrimack	Yes	\$ 28.52	s -	Deferred until 2021 due to COVID19 delays.
Office Space for Const & Maint Supervisor	Permanent office space for Contruction & Maintenance Supervisor.	n/a	DW17-183	26,101	2/2/2018	\$ 12,000		\$ 12,000	ş -			Merrimack	Yes	\$ 28.52	ş -	Deferred until 2020 due to COVID19 delays.
Landscape improvements	Repair Hill Sides @ 16 DWH and overseed with erosion mix.	2008276	DW17-183	26,101 0.1 DSRR	2/2/2018	\$ 12,000		\$ 12,000	\$ 12,000			Merrimack	Yes	\$ 28.52		
Automatic Entrance Gate @ Distribution Facility Emergency Gas Detection Meters	Replace manual gate @ Distribution facility with automatic gate. Emergency Gas Detection Meters	2000718 2006033	DW17-183	26.101	2/2/2018	\$ 10,000	No Yes	\$ 10,000	\$ 10,000 \$ 10,411		\$ 3,083 \$ 10,411	Merrimack Merrimack	Yes	\$ 28.52 \$ 28.52		Work delayed on long range gate reader until 2021, due to COVID19. Replace exsisting failed tritector.
Replacement Equipment/Excavator Trailer	Replacement Equipment/Excavator Trailer	2007566	DW17-183 DW17-183	26,101	2/2/2018	s -	Yes	<u>s</u>	\$ 10,411 \$ -	\$ 10,411 \$ 19.457		Merrimack	No	\$ 28.52 \$ 28.52	-	Replace exsisting failed tritector.
Buyout Lease of HP T2530PS Large Format Printer (OPS)	Buyout Lease of HP T2530PS Large Format Printer (OPS).	2008268	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	s -	\$ 6,994		Merrimack	No	\$ 28.52	s -	
West Hollis Street Check Valve Pit	Install at the intersection of W. Hollis St and Panther Dr.	n/a	DW17-183	26,101	2/2/2018	\$ 88,000		Ş -	ş -	ş -		Nashua	Yes	\$ 27.13	*	Deferred
NWS Improvements - Manchester Street	Install 1700 LF of 24 inch DI and new Fencing. Add 3400 LF of 20 inch HDPE including RR pipe jacking.	2000383 2000386		DWGTF		\$ 125,000 \$ 40,000		\$ 140,000 \$ 25,000	\$ 140,000 \$ 25,000	* 00,000	ę	Nashua Nashua	Yes	\$ 27.13 \$ 27.13		
NWS Improvements - Deerwood Dr. Northwest Blvd Loop NWS Improvements Veteran's Rd/Route 101A Loop	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends.	2000386		DWGTF		\$ 40,000		\$ 125,000	\$ 25,000 \$ 125,000	*	*	Nashua	Yes	\$ 27.13 \$ 27.13		-
NWS Improvements Veteran's Kd/ Route 101A Loop NWS Improvements Tinker Road Paving and restoration	NWS Improvements Tinker Road Paving and restoration.	2000385		DWGTF		\$ 125,000		\$ 125,000 \$ \$ 32,000 \$	\$ 125,000 \$ 32,000			Nashua	Yes	\$ 27.13 \$ 27.13		
Simon & Will Street - Paving	Simon & Will Street - Paving	2000387	DW17-183	26,101	2/2/2018	\$ 30,000		\$ 30,000	\$ 30,000	ş -		Nashua	Yes	\$ 27.13	ş -	Deferred
Garden Street - Final Paving City of Nashua Sewer - Lake Street	Garden Street - Final Paving Replace 2950 LF of 6 inch CI with 12 inch DIPCL (Paving).	2000388 2000378	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 18,000 \$ 30,000		\$ 18,000 \$ \$ 30,000 \$	\$ 18,000 \$ 30,000		\$ 10.500	Nashua	Yes	\$ 27.13 \$ 27.13	÷	Deferred 7
City of Nashua Sewer - Lake Street			DW17-183 DWGTF Financing				Yes				\$ 10,589	Nashua	Yes	\$ 27.13	a 287	
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	2000380	DWG1F Financing DW19-026	26,247	5/3/2019	\$ 140,375	Yes	\$ 192,109	\$ 192,109	\$ 192,109	\$ 140,375	Merrimack	Yes	\$ 28.52	\$ 4,003	
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	2000380	DW17-183	26,101	2/2/2018	\$ 221,625	Yes	\$ 247,891	\$ 260,000	\$ 260,000	\$ 253,590	Merrimack	Yes	\$ 28.52	\$ 7,232	2 Project cost increased by \$80,000 to develop Source Water Protection plan required by NHDES.
Replace Kessler Farm booster pump package	Replace 31 year old package booster station pumps and piping.	2000389	DW17-183	26,101	2/2/2018	\$ 75,000	Yes	\$ 178,000	\$ 200,600	\$ 188,000	\$ 190,901	Nashua	Yes	\$ 27.13	\$ 5,179	Budget to be increased as a portion of site work for the Kessler Farm Tank was transferred to this project. Winning project bid wa higher than engineer's estimate.
Risk and Resilience Assessment and Emergency Response Plan	Complete Risk and Resilience Assessment and Emergency Response Plan as required by the USEPA.	2002053	DW17-183	26,101	2/2/2018	\$ 120,000	Yes	\$ 120,000	\$ 120,000	\$ 120,000	\$ 117,274	Various	No	\$ 28.45	s -	
Asset Management - GIS QA/QC ahead of NEW CMMS	GIS QA/QC Ahead of NEW CMMS	1900414, 2000362	DW17-183	26,101	2/2/2018	\$ 40,000		\$ 40,000	\$ 40,000	* 10,000	*	Merrimack	Yes	\$ 28.52	÷ 1,010	
Brook Street (Lake St Area PH2)	Replace 225 LF of 4 inch and 915 LF of 6 inch CI with 1140 LF of 8 inch DIPCL.	1502511, 2003423	DW17-183	26,101	2/2/2018	\$ 380,000		\$ 274,000	\$ 209,000	\$ 276,000		Nashua	Yes	\$ 27.13 \$ 27.12		Restoration work slated for 2021 was completed in 2020.
Hamilton Street (Lake St Area PH2) Burritt Street (Lake St Area PH2)	Replace 410 LF of 6 inch CI with 4 inch DIPCL. Replace 425 LF of 4 inch CI with 8 inch DIPCL.	1502512, 2003422 1502513, 2003420	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 87,000 \$ 141,000		\$ 63,000 \$ \$ 95,000 \$	\$ 142,000 \$ 108,700			Nashua Nashua	Yes	\$ 27.13 \$ 27.13		
Burritt Street (Lake St Area PH2)	Replace 125 LF of 4 inch CI with 6 inch DIPCL.	n/a	DW17-183 DW17-183	26,101	2/2/2018	\$ 38,000		\$ 27,000	\$ 54,300		\$ 154,755	Nashua	Yes	\$ 27.13 \$ 27.13	* 0,000	Included in row above.
Verona Street (Lake St Area PH2)	Replace 675 LF of 6 inch CI with 8 inch DIPCL.	2007542	DW17-183	26,101	2/2/2018	\$ 226,000	Yes	\$ 162,000	\$ 173,900	\$ 205,100	\$ 182,847	Nashua	Yes	\$ 27.13	\$ 4,961	Required the use of temporary main that was not iniitially part of the design.
Sarasota Ave (Lake St Area PH2)	Replace 250 LF of 6 inch CI with 8 inch DIPCL.	n/a	DW17-183	26,101	2/2/2018	\$ 83,000	Yes	\$ 62,000	\$ 118,100	\$ 70,000		Nashua	Yes	\$ 27.13	ş -	
Amherst Dodge Rd Watermain Abandonment	Abandon Approx. 700 LF of AC Main, Transfer 2 services & 1 Hyd to parallel 8" DIPCL wates main.	r 2001229	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 71,000	\$ 105,750	\$ 146,000	\$ 149,710	Amherst	No	\$ 32.93	ş -	Scope of job expanded to replace multiple broken or leaking valves discovered during the shutdown process.
Kessler Farm Tank Replacement	Replaced 4 MG painted steel water tank with 4 MG prestressed, precast water tank.	2000379		0.1 DSRR		\$ 3,388,000	No	\$ 60,000	\$ 60,000	\$ 60,000	\$ 65,161	Nashua	No	\$ 27.13	S -	Design only. Construction deferred until 2021.
Replace Engineering Pickup	2020 Ford Escape SE - Replace Vehicle #101	2006652	DW17-183	26,101	2/2/2018	\$ 35,000		\$ 35,000	\$ 24,431	\$ 24,431		Merrimack	No	\$ 28.52		
Replace Engineering SUV #34	2020 Ford Escape SE - Replace Vehicle #401	2006755	DW17-183	26,101 26.101	2/2/2018 2/2/2018	\$ 30,000		\$ 30,000	\$ 23,474			Merrimack	No	\$ 28.52		
Investment in developer installed services at 1xannual revenue Asset Management Trimble R2 Units	Per tariff Add two new GPS units for additional staff.	n/a 2003535	DW17-183 DW17-183	26,101	2/2/2018	\$ 60,000 \$ 24.000		\$ 84,000 \$ \$ 24,000 \$	\$ 62,000 \$ 24,000	· · · · ·		Various Merrimack	Yes	\$ 28.45 \$ 28.52		136 Developer Installed Services through 12/31/2020.
Merrimack River Pumping Station	Add third 350 horsepower pump and motor with variable frequency drive.	2003759	DW17-183	26,101	2/2/2018	\$ 260,000	Yes	\$ 360,000	\$ 600,000	\$ 600,000		Merrimack	Yes	-	-	Added Pump Station roof hatches and roofing to facilitate pump replacement in the future. Bid price received for new pump was higher than anticipated. Added Electrical system upgrades for code and redundency. There will be an additional \$140,000 of
								++						\$ 28.52	*	expenditures to complete this project in 2021.
Crescent Street (sewer related)	Replace 250 LF of 4 inch CI and 96 LF of 1 1/4 inch CL with 150 LF of 4" PVC.	2001230	DW17-183	26,101	2/2/2018	ş -	Yes	\$ 44,700	\$ 33,600			Nashua	Yes	\$ 27.13	· · · · · · · · · · · · · · · · · · ·	Added due to Kessler Farm Tank deferral to 2021.
Crescent Street (paving contribution)	Replace 250 LF of 4 inch CI and 96 LF of 1 1/4 inch CL with 150 LF of 4" PVC.	2003533	DW17-183 DW17-183	26,101 26.101	2/2/2018 2/2/2018	ş -	Yes	\$ 8,000	\$ 15,000	· / /		Nashua	Yes	\$ 27.13 \$ 27.13	-	Added due to Kessler Farm Tank deferral to 2021.
School Street Fulton Street(Lake St Area PH2)	Replace 400 LF of 4 inch CI with 680lf of 6 inch DIPCL (creates a looped system). Replace 180 LF of 2" CL with 4" DIPCL - addition to Lake St Ph 2 project.	2003533 2007556	DW17-183 DW17-183	26,101	2/2/2018	\$ - e	Yes	\$ 244,000 \$ \$ 40,000 \$	\$ 166,850 \$ 93,950			Nashua Nashua	Yes	\$ 27.13 \$ 27.13	· · · · · · · · · · · · · · · · · · ·	Added due to Kessler Farm Tank deferral to 2021, restoration work that was planned for 2021 was completed in 2020. Added due to Kessler Farm Tank deferral to 2021.
Manatee St (Lake St Area PH2)	Replace 140 14 012 CF with 4" DFCE - addition to Face St Fit 2 project. Replace 240 LF of 6 inch CI with 8" DIPCL - addition to Lake St Ph 2 project.	2007543	DW17-183	26,101	2/2/2018	ş -	Yes	\$ 55,000	\$ 95,950 \$ 84.000	ę , <u>-</u> ,	·	Nashua	Yes	\$ 27.13 \$ 27.13		Added due to Kessler Farm Tank deferral to 2021. Added due to Kessler Farm Tank deferral to 2021.
Ash St (Lake St Area PH2)	Replace 480 LF of 6 inch CI with 8 and 6 inche DIPCL - added to Lake StPh 2.	2007540	DW17-183	26,101	2/2/2018	ş -	Yes	\$ 102,000	\$ 157,450	\$ 164,300		Nashua	Yes	\$ 27.13		Added due to Kessler Farm Tank deferral to 2021.
Fields Grove Crossing (Lake St Area PH2)	Cross City park with 16" HDPE direction bore - 890 LF- added to Lake St Ph 2.	2007557	DW17-183	26,101	2/2/2018	ş -	Yes	\$ 60,000	\$ 60,000	· · · · ·		Nashua	Yes	\$ 27.13		Added due to Kessler Farm Tank deferral to 2021.
Pine St (Lake St Area PH2) Manatee and Sarasota intersection work	Cut in tees for manatee and sarasota.	2007541	DW17-183	26,101	2/2/2018	ş -	Yes	ş -	ş -	\$ 31,500	\$ 90,922	Nashua	Yes	\$ 27.13	\$ 2,467	7 Intersection work associated with Sarasota and Manatee projects.
Ingalls St - complete in 2020	Emergency water main replacement - 175' of Galv (1921) replaced with 4" PVC.	2007544	DW17-183	26,101	2/2/2018	ş -	Yes	\$ 38,000	\$ 45,300	\$ 37,000	\$ 33,471	Nashua	Yes	\$ 27.13	\$ 908	Added due to Kessler Farm Tank deferral to 2021.
Walnut St - water main (added to crescent/school st project)	Paving related to water main replacement - replace 56' of 12" CI and 230' of 8" CI (1925- unlined) with 286' of 12" DIP.	2006558	DW17-183	26,101	2/2/2018	e	Yes	\$ 70,000	\$ 120,600	\$ 84,000	\$ 74,774	Nashua	Yes	\$ 27.13	s 2.020	Added due to Kessler Farm Tank deferral to 2021, \$\$ from paving contribution in row 67 added in.
Walnut St (paving contribution)	Paving Contribution for paving in 2021.		DW17-183	26,101	2/2/2018	ş -	Yes	\$ 20,000	s -	s -		Nashua	Yes	\$ 27.13 \$ 27.13		Added due to Kessler Farm Tank deferral to 2021, \$\$ in row 66.
								-	·					ş 27.15	- -	Added due to Kessler Farm Tank deferral to 2021, 99 in 100 00. Added due to Kessler Farm Tank deferral to 2021. The majority of this project will be occurring in 2021 due to later than expected
Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL.	2002685	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 900,000	\$ 150,000	\$ 118,000		Nashua	Yes	\$ 27.13	s -	bid opening.
Pennichuck Brook Ponds Aerial Survey	Pennichuck Brook Ponds Aerial Survey	2006039	DW17-183	26,101	2/2/2018	ş -	Yes	\$ - ·	\$ 21,700	\$ 21,700		Nashua	No	\$ 27.13		Drouight response. Survey of exposed bottow of Harris and Bowers Pond.
Upgrade SCADA historian software, new hardware	Upgrade SCADA historian software, new hardware.	2000376	DW17-183	26,101	2/2/2018	\$ 65,000	Yes	\$ 65,000	\$ 65,000	\$ 65,000	\$ 54,749	Nashua	Yes	\$ 27.13	\$ 1,485	5
		1901734, 1907078,		0.1 DSRR												
Bowers Dam LOD response engineeriing	Bowers Dam LOD response engineering	2000373 1907076, 2000375		0.1 DSRR		\$ 10,000 \$ 20,000	-	\$ 10,000 \$ \$ 20,000 \$	\$ 10,000 \$ 20,000	\$ 10,000 \$ 20,000	* 0,000	Nashua/Merrimach Nashua/Merrimach		\$ 27.83	-	Bowers Dam LOD response engineering Deferred
Harris LOD response engineering Supply Pond LOD response engineering	Harris LOD response engineering Supply Pond LOD response engineering	1907076, 2000375		0.1 DSRR 0.1 DSRR		\$ 20,000		\$ 20,000 \$	\$ 20,000					\$ 27.83 \$ 27.83	-	Deferred
		1619402, 1701898,	DW17-183	26,101	2/2/2018	\$ 5,000		\$ 53,457	\$ 3,457			Nashua	Yes	ş 27.03	ş -	Previous Year work was instrumental in the completion of the rebuild of NW Pump #1, remaining \$50,000 for the rebuild of NWS
Rebuild Pump 1, Northwest, Nashua	Final costs for reinstallation and alignment.	1918550, 2000438												\$ 27.13	· · · · · /) Pump #2. See row 94 below.
New Vehicle for WS electrician	Final costs for fit up of new truck purchased in 2019.	2000437	DW17-183	26,101	2/2/2018	\$ 3,000	Yes	\$ 3,000	\$ 3,000	\$ 3,000	\$ 2,360	Nashua	No	\$ 27.13	ş -	
MSDC payment to MWW	MSDC payment for MSDC gallons beyond that currently purchased.	2009023	DW17-183	26,101	2/2/2018	ş -	Yes	\$ - '	ş -	\$ 166,346	\$ 166,347	Various	No	\$ 28.45	ş -	During 2020, PWW used 47,341 MSDC gallons beyond what had been purchased. 3,450 of the MSDC gallons were purchased wit cash collected via MSDC tanff. The remaining 43,891 gallons were used by existing customers.
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ 40,000	\$ 35,000	\$ 25,000	\$ 33,239	Various	Yes	\$ 28.45	\$ 946	5 9 Booster Pumps Repaired/Replaced through 11/30/2020. 1 additional rebuilds projected by end of year.
Booster Pump replacement/rebuild	Replace Booster #1, Donald Street	2008275	DW17-183	26,101	2/2/2018	\$ -	Yes	10,000		\$ 6,000		Bedford	Yes	\$ 24.62		
Booster Pump replacement/rebuild	WTP Intermediate pump #2 electric motor rebuild	2007216	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ -	\$ 12,644			Nashua	Yes	\$ 27.13		
Well Pump replacements	Well Pump replacements	60, 61, 62 & 63	DW17-183	26,101	2/2/2018	\$ 15,000		\$ 10,000	s _	\$ 5,025		Various	Yes	\$ 28.45	_	2 well pumps repaired/replaced through 12/31/20.
	· · · · · · · · · · · · · · · · · · ·	workorders								. 3,023					\$ 431	Lease for for data selection and and and and and and and and and an
x x		60, 61, 62 & 63	DW17-183	26.101	2/2/2018				1	1	1 1			\$ 28.45		
Chemical Feed pump replacements Chemical Feed pump replacements	Chemical Feed pump replacements Rebuild Ferric Feed Pumps 2 & 3	60, 61, 62 & 63 workorders 2002269	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 10,000 \$ -	Yes Yes	\$ 6,757 \$ \$ 3,243 \$	\$ 3,500 \$ 3,243	*		Various Various	Yes	\$ 28.45 \$ 28.45	-	3 Chemical Pumps Repaired/Replaced through 12/31/2020.

Pennichuck Water Works, Inc. DW 22-xxx 2020 used and useful QCPs 2/14/2022

															0000	
Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Board Approved 2020 Capex Budget	QCPAC Eligible?	Estimated Project Est Cost as of 6/30/2020	stimated Project Cost as of 9/30/2020	Estimated Project Cost as of 11/30/2020	Final Project cost as of 12/31/2020	Community	Taxable	2020 Tax Rate (1)		
sc. Structural Improvements	Misc. Structural Improvements	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 16,700 \$		\$		Various	Yes	\$ 28.52		
c. Structural Improvements	Replace Fire Alarm System Control Boards - Damaged by Lightning Strike.	2006032	DW17-183	26,101	2/2/2018	ş 20,000 \$ -	Yes	\$ - \$	15,120	\$ 15,120	\$ 14,242	Nashua	Yes	\$ 27.13		86
*						Ŷ		с с	10,120	\$ 4,235	. ,					
c. Structural Improvements cellaneous Equipment Purchased	Replace Maple Haven Pump Station Rood.	2008269	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018		Yes	3 - 3	-		\$ 5,170	Derry	Yes	\$ 29.00 \$ 27.13	ā.	50
cellaneous Equipment Purchased cellaneous Equipment Purchased	Miscellaneous Equipment Purchased Replace Sewage Ejection Pump, Snow Station	n/a 2003515	DW17-183 DW17-183	26,101	2/2/2018	\$ 17,500	Yes	\$ 8,437 \$ \$ 3,300 \$	8,473 3,300	-	\$ 3,287	Nashua Nashua	Yes	\$ 27.13 \$ 27.13	-	89
cellaneous Equipment Purchased	WTP Replace Filter-to-Waste Valve	2003515	DW17-183	26,101	2/2/2018	3 - S	Yes	\$ 5,500 \$ \$ 2,353 \$	2,353			Nashua	Yes	\$ 27.13 \$ 27.13	-	64 This was in 2019 budget, but did not go useful until 2020.
cellaneous Equipment Purchased	Replace Sludge Pump #2, WTP.	2004525	DW17-183	26,101	2/2/2018	\$.	Yes	\$ 3.410 \$	3.410			Various	Yes	\$ 28.52		97
cellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a	DW17-183	26,101	2/2/2018	\$ 30,000	Yes	\$ 8,500 \$	8,500	.,	÷ 5,100	Various	Yes	\$ 28.52	-	
cellaneous SCADA/Electrical	Replace VFD, Pump #3 - High Pines Booster	2003512	DW17-183	26,101	2/2/2018	s -	Yes	\$ 9,500 \$	9,500		\$ 9,523	Nashua	Yes	\$ 27.13	-	58
cellaneous SCADA/Electrical	Install cellular SCADA device, HI and LO, Derry.	2004180	DW17-183	26,101	2/2/2018	s -	Yes	\$ 2,500 \$	2,500			Derry	Yes	\$ 27.02		64
cellaneous SCADA/Electrical	SCADA control system, Powder Hill, Donald St.	2004989	DW17-183	26,101	2/2/2018	ş -	Yes	\$ 9,500 \$	9,500	\$ 9,500		Bedford	Yes	\$ 27.02	2 \$	Deferred
cellaneous SCADA/Electrical	Replace Intermediate Pump 3, VFD at WTP.	2008126	DW17-183	26,101	2/2/2018	ş -	Yes	ş - ş	-	\$ 5,500		Nashua	Yes	\$ 27.13	3 \$	Deferred
uild NWS booster pump #2	Rebuild NWS booster pump #2.	2003436	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	ş - ş	50,000	\$ 50,000	\$ 43,464	Nashua	Yes	\$ 27.13		79
P Structural/HVAC	WTP Structural/HVAC	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ 10,000 \$	10,000			Nashua	Yes	\$ 27.13		
chase new lab equipment	Purchase new lab equipment.	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 20,000 \$	20,000	\$ 5,000		Nashua	Yes	\$ 27.13		
cellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	n/a	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ 10,000 \$	-	ş -		Various	Yes	\$ 27.13		
ace Vehicle 200	Replace Vehicle 200	2007616	DW17-183	26,101 26,101	2/2/2018 2/2/2018	\$ 40,000	Yes	\$ 40,000 \$	35,000	• ••••••		Nashua	No	\$ 27.13		
ace Vehicle 201 ace Vehicle 63	Replace Vehicle 201 Replace Vehicle 63	2004137 n/a	DW17-183 DW17-183	26,101	2/2/2018	\$ 55,000 \$ 40,000	Yes	\$ 55,000 \$ \$ 40,000 \$	55,000	\$ 55,000	\$ 53,062	Nashua Nashua	No	\$ 27.13 \$ 27.13		Deferred
	Repair/Replace Soffit and Fascia, Boat House Bldg.	n/a	DW17-183	26,101	2/2/2018	\$ 40,000	Yes	\$ 40,000 \$ \$ 30,000 \$	-	5 - e		Nashua	Yes	\$ 27.13 \$ 27.13		No contractors available. Deferred until 2021.
ir/Replace Soffit and Fascia, Boat House Bldg. on media changeout-filters 5 & 6	Carbon media changeout-filters 5 & 6.	2003490	DW17-183 DW17-183	26,101	2/2/2018	\$ 500,000	Yes	\$ 50,000 \$ \$ 500,000 \$	450,000	\$ - \$ 450,000	\$ 495,331	Nashua	Yes	\$ 27.13 \$ 27.13		
Il new Day Fuel Tank, Controller and related equip., FWPS Generator	Install new Day Fuel Tank, Controller and related equip., FWPS Generator.	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	Yes	\$ 75,000 \$	-	\$ -		Nashua	Yes	\$ 27.13		Deferred until 2021. Project scope being evluated under new code.
DA PLC Replacements	SCADA PLC Replacements	n/a	DW17-183	26,101	2/2/2018	\$ 75,000	Yes	\$ 75,000 \$	-	s -		Nashua	Yes	\$ 27.13	-	Deferred until 2021.
lace 2 Hach Turbidimeters and associated control module	Replace 2 Hach Turbidimeters and associated control module.	2007545	DW17-183	26,101	2/2/2018	\$ 10,000	Yes	\$ 10,000 \$	18,000	\$ 18,000	\$ 16,929	Nashua	Yes	\$ 27.13		59 Changed from 2 to 4 units.
uild Merrimack River pump #2	Rebuild Merrimack River pump #2.	2008305	DW17-183	26,101	2/2/2018	\$ -	Yes	ş - ş	-	\$ 93,100		Merrimack	Yes	\$ 28.86	5 \$ 2,	
ply Pond Dam Modifications per NHDES LOD	Engineering, Permitting, Design Services	2008270		0.1 DSRR		ş -	No	ş - ş	-	\$ 69,000		Merrimack/Nashu	a No	\$ 27.55	5 \$	Engineering Design Work only
rris Dam Raise Earthen Embankment, Dike wall	Engineering, Permitting, Design Services	2008271		0.1 DSRR		ş -	No	ş - ş	-	\$ 90,000		Merrimack/Nashu	a No	\$ 27.55		Engineering Design Work only
nis FER Enhancements	Munis FER Enhancements	n/a	DW17-183	26,101	2/2/2018	\$ 35,000	Yes	\$ 35,000 \$	35,000	,		Merrimack	No	\$ 28.52		
c Hardware	Misc Hardware	n/a	DW17-183	26,101	2/2/2018	\$ 20,000	Yes	\$ 6,945 \$	-	\$ 1,500		Merrimack	No	\$ 28.52	-	
c Hardware	Laptop Purchase for Regulatory Department - JK	2001987	DW17-183 DW17-183	26,101 26.101	2/2/2018 2/2/2018	ş -	Yes	\$ 1,660 \$	1,660			Merrimack	No	\$ 28.52		Purchase to accommodate work from home created by COVID19.
Hardware	Laptop Purchase for Regulatory Department - CAH	2002761		26,101	2/2/2018 2/2/2018	ş -	Yes	\$ 1,400 \$	1,400			Merrimack	No	\$ 28.52	-	Purchase to accommodate work from home created by COVID19.
Hardware	Laptop Purchase for onboarding employees (5)	2002930 2005120	DW17-183 DW17-183	26,101	2/2/2018	ş -	Yes	\$ 9,995 \$	9,995 2,491	.,	.,	Merrimack	No	\$ 28.52 \$ 28.52	-	Purchase to accommodate work from home created by COVID19. Purchase to accommodate work from home created by COVID19.
: Hardware : Hardware	Laptop Purchase for New Employee C. Harding Spare Laptop Purchase	2005120	DW17-183 DW17-183	26,101	2/2/2018	\$ - ¢	Yes	5 - 5 c c	2,491			Merrimack	No	\$ 28.52 \$ 28.52		Purchase to accommodate work from home created by COVID19. Purchase to accommodate work from home created by COVID19.
e Hardware	Spare Laptop Purchase New Laptop for Accounting new hire - Payroll Admin	2005258	DW17-183	26,101	2/2/2018	3 - S	Yes	> - > < <	1,005			Merrimack	No	\$ 28.52 \$ 28.52		Purchase to accommodate work from home created by COVID19. Purchase to accommodate work from home created by COVID19.
c Software	New Laptop for Accounting new nine - Payron Admini	n/a	DW17-183	26,101	2/2/2018	\$ 12,000	Yes	\$ 2.880 \$	1,100	\$ 1,100	\$ 1,100	Merrimack	No	\$ 28.52 \$ 28.52		Putchase to accommodate work from nome created by COVID19.
c Software	Macola Development Environment for testing upgrade.	2002276	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 5,280 \$	5,280	\$ 5,280	\$ 6,400	Merrimack	No	\$ 28.52		
ic Software	Tyler Notify	2003317	DW17-183	26,101	2/2/2018	s -	Yes	\$ 3,840 \$	3,840			Merrimack	No	\$ 28.52	-	
se Software	MSL Server License for Munis Upgrade	2005976	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ - \$	6,350			Merrimack	No	\$ 28.52	2 \$	Deferred
bsite upgrades	Website upgrades	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	Yes	\$ 8,000 \$	-	s -		Merrimack	No	\$ 28.52	2 \$	
non Replacement at WIP	The server at WIP is over 7 years old and should be replaced. I am recommending to replace the server with a VM host for ease of use and reliability.	2003704	DW17-183	26,101	2/2/2018	\$ 15,000	Yes	\$ 15,000 \$	15,000	\$ 15,000	\$ 9,366	Merrimack	No	\$ 28.52	2 8	
ditional UPS for Distribution Data Center	We are starting to leverage this datacenter more with more equipment. The current UPS is over subscribed and we need to protect everything in there.	2003493	DW17-183	26,101	2/2/2018	\$ 1,600	Yes	\$ 1,600 \$	1,600	\$ 1,600	\$ 2,060	Merrimack	No	\$ 28.52		
aki Wireless AP's for WTP	The current AP's at WTP are tied into the wireless at HQ. We will be changing to the Maraki solution for HQ so these will need to be replaced.	2003426	DW17-183	26,101	2/2/2018	\$ 3,000	Yes	\$ 3,000 \$	3,000	\$ 3,000	\$ 3,252	Merrimack	No	\$ 28.52		
rage Replacement for PS6110 Array	Nimble addon shelf – 33tb usable	2003425	DW17-183	26,101	2/2/2018	\$ 57,000	Yes	\$ 30,000 \$	30,000	\$ 30,000	\$ 16,145	Merrimack	No	\$ 28.52	2 \$	
eam Backup of O365	Backup documents stored in the cloud within Office 365.	n/a	DW17-183	26,101	2/2/2018	\$ 2,000	Yes	\$ - \$	2,000			Merrimack	No	\$ 28.52		
nt Remote Control Software	5 licenses	n/a	DW17-183	26,101	2/2/2018	\$ 1,300	Yes	ş - ş	1,300	\$ 1,300		Merrimack	No	\$ 28.52	2 \$	
			DW17-183	26,101	2/2/2018											
MS replacment project	Replace Synergen/WAM with newer more cost effective/improved functionality system.	2000368	DW17-105		2/2/2010	\$ 600,000	Yes	\$ 600,000 \$	600,000	\$ 450,000	\$ 433,263	Nashua	Yes	\$ 27.13	3 \$ 11,	54 Project implementation has been slowed due to COVID19. Project \$\$ not used in 2020 will carry over into 2021.
Building	New Building	2001988		0.1 DSRR		\$ 78,300	No	\$ 140,000 \$	140,000	· · · · · · · · · · · · · · · · · · ·	-	Nashua	Yes	\$ 27.13		58
Building - Server Room Networking	Routers/Switches/Racks/Patch Panels	2100047		0.1 DSRR		\$ 19,000	No	\$ 12,800 \$	12,800	\$ 12,800	\$ 14,888	Nashua	Yes	\$ 27.13	3 \$	04
Building - Phone System	Replacement of existing Phone sytem. New system will not work with existing hardware.	2100043		0.1 DSRR		\$ 70,000	No	\$ 60,000 \$	60,000	\$ 60,000	\$ 77,830	Nashua	Yes	\$ 27.13	3 8 2	12
F - IOS mobile Management	Software configuration support for JAMF product.	2004171	DW17-183	26,101	2/2/2018	\$ 6,000	Yes	\$ 6,000 \$	6,000	\$ 6,000	\$ 5,400	Merrimack	No	\$ 28.52		
ument Management	Software to allow for document tracking and flow management (Accounting).	n/a	DW17-183	26,101	2/2/2018	\$ 8,000	Yes	\$ 5,400 \$	5,400	S -		Merrimack	No	\$ 28.52	2 \$	
Software move to MS sql	Move Click Database from Oracle to MS sql in order to retire Oracle after the WAM replacement project is complete.	2003421	DW17-183	26,101	2/2/2018	\$ 45,000	Yes	\$ 19,500 \$	19,500	\$ 19,500	\$ 140,012	Merrimack	No	\$ 28.52	2 \$	
on Street, Final Restoration	2020 Carryover Costs	2000693	DW17-183	26,101	2/2/2018	Ş -	Yes	\$ 1,500 \$	1,500			Nashua	Yes	\$ 27.13	-	41 Not included in approved 2020 Budget.
ell Street, Final Restoration	2020 Carryover Costs	2000694	DW17-183	26,101	2/2/2018	\$ -	Yes	\$ 2,500 \$	2,500			Nashua	Yes	\$ 27.13		Not included in approved 2020 Budget.
t Pearl Street, Final Restoration	2020 Carryover Costs	2000695	DW17-183	26,101	2/2/2018	Ş -	Yes	\$ 12,750 \$	12,750			Nashua	Yes	\$ 27.13		46 Not included in approved 2020 Budget.
inage	Paid out in 2020 on retainage held on 2019 projects.	N/A	DW17-183	26,101	2/2/2018	Ş -	Yes	Ş - Ş	-	\$ 162,383		Nashua	Yes	\$ 27.13		51
nage	Held on various projects listed above. Will be paid out in 2021.	N/A	DW17-183	26,101	2/2/2018	\$ -	Yes	s - s	-	\$ (54,805) c 70,000		Nashua	Yes	\$ 27.13		57) Defend investigation of a FALOC SE Co. Co. Proc (2020 Concerting)
OC interest	Interest accrued on PWW FALOC from 5/1/2020 to 4/1/2021. 2020 Carryover Costs	2000696	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	3 -	Yes	3 - <u>\$</u>	-	\$ 70,000		Various	No	\$ 28.45 \$ 27.13	-	Projected interest accrued on FALOC \$\$ for funding of 2020 Capex projects.
Street, Final Restoration en Street. Final Restoration	2020 Carryover Costs 2020 Carryover Costs	2000696 2000697	DW17-183 DW17-183	26,101 26,101	2/2/2018 2/2/2018	э - с	Yes	\$ 21,750 \$ \$ 1.500 \$	21,750 1,500			Nashua	Yes	\$ 27.13 \$ 27.13		90 Not included in approved 2020 Budget. 41 Net included in approved 2020 Redect
ren Street, Final Restoration Drum Hand Truck	2020 Carryover Costs New Drum Hand Truck	2000697 2003534	DW17-183 DW17-183	26,101	2/2/2018	÷ -	Yes	a 1,500 \$	1,500	\$ 1,500	\$ 1,500 \$ 1,383	Nashua Nashua	Yes	\$ 27.13 \$ 27.13		41 Not included in approved 2020 Budget. 38
ace Sludge Discharge Pump #1	New Drum Hand Truck Replace Sludge Discharge Pump #1	2003534 2100054	DW17-183 DW17-183	26,101	2/2/2018	\$	Yes				\$ 1,383 \$ 3,522	Nashua Nashua	Yes	\$ 27.13 \$ 27.13		96
copes & Metal Detectors	Keplace Sludge Discharge Pump #1 M-Scopes & Metal Detectors	2100054 2100055	DW17-183 DW17-183	26,101	2/2/2018	s -	Yes				\$ 3,522 \$ 9,910	Nashua Nashua	Yes	\$ 27.13 \$ 27.13		96 69
te Space Planning	M-Scopes & Metal Detectors Office Space Planning	1806837, 1917427	D W 1/-103	0.1 DSRR	-, -, 2010	s -	No				\$ 30,045	Nashua		\$ 27.13 \$ 27.13		
er opere i neumig	i conce opree i mining	,	chuck Water Works Proj		l Expenditure Budget -	\$ 9,995,700		\$ 6,957,314 \$	6,502,362	\$ 6,876,855		Projected Property				83
			T Total Projected PWW		Funded project Total - CPAC Capex for 2020 - 20 funded with Bonds -	\$ 229,300 \$ 9,766,400 \$ 9,211,025		\$ 344,800 \$ \$ 6,612,514 \$ \$ 6,098,405 \$ \$ 322,000 \$	5,643,453	\$ 5,835,446	\$ 849,428 \$ 6,101,832 \$ 5,605,797					

		Amou	nt funded by DWGTF Merrimack River Intake - t Annual P&I on 2020 QCPAC eligible Projects -		140,375 564,236	5 5 5	192,109 381,198	\$ \$ \$	192,109 \$ 354,706 \$	192,109 367,530	s s	140,375 351,395
Estimated Bond Terms (Bonds to be sold in April 2021)	- 30	Years @	4.056692%	\$	536,347	ş	355,103	\$	328,612 \$	339,791	ş	326,419
Merrimack River Intake DWGTF Terms	- 30	Years @	3.38%	\$	7,518	\$	10,289	\$	10,289 \$	10,289	\$	7,518
Northwest System Improvements DWGTF Terms	- 30	Years @	2.704%	ş	20,371	\$	15,806	\$	15,806 \$	17,450	ş	17,458

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

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Estimated Project Cost as of 6/30/2021	Estimated Project Cost as of 9/30/2021		oject cost /31/2021	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	
reman Truck 21 New Services (10)	Upfit of Foreman's Truck body at JC Madigans. Single Family, Owner Build, New Homes	2107517 Bounding	DW20-157	0.1 DSRR 26,459	3/2/2021	\$ 61,000 \$ 50,000	No Yes	\$ 61,000 \$ 80,000	\$ 61,000 \$ 75,000	61,000 \$ 72,000 \$	69,469	Merrimack	No Yes	\$ 22.51 \$ 24.96		13 12 New Services installed in 2021.
21 New Services (10) 21 Renewed Services (20)	Replacement of Failed Services	Routine	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 50,000 \$ 110,000	Yes	\$ 80,000 \$ 60,000		64,000 \$	64,613 62,510	Various Various	Yes	\$ 24.96 \$ 24.96		13 12 New Services installed in 2021. 60 19 Renewed Services installed in 2021.
1 Hydrants (15)	Replacement of non-functional hydrants	Routine	DW20-157	26,459	3/2/2021	\$ 90,000	Yes	\$ 60,000	\$ 48,000	48,000 \$	39,043	Various	Yes	\$ 24.96	\$ 97	75 7 Hydrants installed/repaired in 2021.
1 Gates (10) 1 Radios (250)	Replacement of Failed Gate Valves Replacement of failed radios	Routine	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 40,000	Yes Yes	\$ 120,000 \$ 11,000		95,000 \$ 14,500 \$	92,088 14,749	Various	Yes Yes	\$ 24.96 \$ 24.96		99 24 Gates installed/repaired in 2021. 68 150 failed radios installed in 2021.
Radios (4250)	Yr 1 of 10 Replacment of all PWW Radios installed in 2007 (4000), New Radios for I	2101626	DW20-157	26,459	3/2/2021	\$ 425,000	Yes	\$ 400,000		135,000 \$	121,635	Various	Yes	\$ 24.96		36 1,271 Radios installed durinf 2021.
1 Meters (Growth) 5/8"-2" - Core & CWS (TBD) placement Utility Truck	New meters for new customers (250). Replacement of failed meters(250). Replacement for Truck #83 - 2011 F350, 110K miles, High maint costs & lots of bod	Routine 2103610	DW20-157 Excess 0.1 DSR	26,459 R funds as of 12/31/202	3/2/2021 21 per noted 3&4	\$ 50,000 \$ 70,000	Yes Yes	\$ 50,000 \$ 70,000	\$ 50,000 \$ 70,000	62,000 \$ 70,000 \$	60,048 67.828	Various Merrimack	Yes	\$ 24.96 \$ 22.51	\$ 1,49 \$	99 340 Meters installed in 2021.
lacement Utility Truck	Replacement for Truck #9 - 2014 F350, 110K Miles, High maint costs & significant r	2103609		R funds as of 12/31/20		\$ 70,000	Yes	\$ 70,000	\$ 70,000	70,000 \$	67,828	Merrimack	No	\$ 22.51	\$ -	
lacement Full Size Pickup	Replacement for Truck #95 - 2008 Ford Ranger 110K miles did not pass inspection.	2103612			21 per noted 3&4	\$ 45,000	Yes	\$ 45,000	\$ 45,000	45,000 \$	44,990	Merrimack	No	\$ 22.51	ş -	
Iacement Full Size Pickup Iacement SUV - Meter Reading	Replacement for Truck # 20 - 2008 Ford Ranger 135K miles did not pass inspection Replacement for vehicle #21 - 2013 Chevy Equinox 135k miles, high maint costs & s	NTD ² 2103615	DW20-157 Excess 0.1 DSR	26,459 R funds as of 12/31/202	3/2/2021 21 per noted 3&4	\$ 45,000 \$ 35,000	Yes Yes	\$ - \$ 35,000	\$ - \$ 35,000	- \$ 35,000 \$	- 32,451	Merrimack Merrimack	No	\$ 22.51 \$ 22.51	\$ - ¢	Deferred until 2022
dscape Improvements	Irrigation system, loam & seed area at front of Distribution Building.	NTD	DW20-157	26,459	3/2/2021	\$ 15,000	Yes	\$ 55,000 \$ 15,000	\$ 35,000 \$ 15,000	5 - \$		Merrimack	Yes	\$ 22.51 \$ 22.51	\$ -	Deferred until 2022
lacement Valve/vac trailer	Replacement for # 96 - 2010 EHWA Valvemate - Valve Turner not functional and ca	2105021	DW20-157	26,459	3/2/2021	\$ 65,000	Yes	\$ 72,000	\$ 70,970	70,970 \$	70,971	Merrimack	No	\$ 22.51	\$ -	
lacement Equipment Trailer ectus Meter Upgrade	Replacement for # 53 - 14' BigTex Trailer - Excessive rust & rot and safety issues. Protectus Meter Upgrade	NTD	DW20-157 DW20-157	26,459	3/2/2021	\$ 7,500 \$ 22,000	Yes	\$ 7,500 \$ 22,000	ę . je o o	- \$	-	Merrimack Nashua	No Yes	\$ 22.51 \$ 27.70	\$ - ¢	Deferred until 2022 Should have WO#
e Turner & Vac Truck	Replacement for #60 - 15 Year Vac/Valve Trailer with excessive rot, will not pass inst	2103613	DW20-157	26,459	3/2/2021	\$ 200,000	Yes	\$ 200,000	ę	200,000 \$	207,981	Merrimack	No	\$ 22.51	\$ -	Should have wom
llaneous Tools for Distributiuon Department	New Impact Tool/Wrench For Repairing Hydrants	2109058 2109770	DW20-157	26,459	3/2/2021	ş -	Yes	ş -	ş -	- \$	4,659	Merrimack Merrimack	No	\$ 22.51 6 22.51	ş -	
laneous Tools for Distributiuon Department laneous Tools for Distributiuon Department	Portable Heated Pressure Washer Replacement Piercing Tool/Grundomat	2109770 2109774	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	5 - 5 -	Yes Yes	s - s -	s	- 5	8,030 10,295	Merrimack	No	\$ 22.51 \$ 22.51	s -	
e Space for Const & Maint Supervisor	Permanent office space for Contruction & Maintenance Supervisor	NTD	DW20-157	26,459	3/2/2021	\$ 15,000	Yes	\$ 15,000		- \$	-	Merrimack	Yes	\$ 22.51	ş -	Deferred until 2022
er Room Deep Wash Sinks	Deep stainless wash sinks to replace existing sinks in male & female locker rooms.	NTD NTD	DW20-157	26,459	3/2/2021	\$ 10,000 \$ 7,500	Yes	\$ 10,000		- \$		Merrimack	Yes	\$ 22.51	ş -	Deferred until 2022
er Room Benches bution Facility Bird Mitigation	Permanent Benches for Male & Female locker rooms. Installation of 3/4" Bird Mitigation Netting to the Outside Vehicle/equipment covered s	2105481	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ -	Yes	\$ 7,500 \$ 27,000	\$ 26,250	26,250 \$	26,250	Merrimack	Yes	\$ 22.51 \$ 22.51	ş -	Deferred until 2022 Covered equipment storage area with open sides was being invaded by birds for nesting which resulted in large amount any feces. Netting will eliminate access of the brids to the rooting areas.
0		2102520	TANKA CAR	A.C. 180	a /a /a/a/				a	05.400				0.000	\$ 59	91
k Street Iton Street	Replace 225 LF of 4 inch and 915 LF of 6 inch CI with 1140 LF of 8 inch DIPCL. Replace 410 LF of 6 inch CI with 4 inch DIPCL.	2102529 2102528	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 103,000 \$ 33,000	Yes Yes	\$ 100,000 \$ 75,000		95,100 \$ 70,200 \$	88,038 63,817	Nashua Nashua	Yes Yes	\$ 27.70 \$ 27.70	\$ 2,43 \$ 1,76	
t Street	Replace 425 LF of 4 inch CI with 8 inch DIPCL.	2102532	DW20-157	26,459	3/2/2021	\$ 24,000	Yes	\$ 25,000	\$ 28,500	28,500 \$	39,353	Nashua	Yes	\$ 27.70	\$ 1,09	90
t Street	Replace 125 LF of 4 inch CI with 4 inch DIPCL. Replace 675 LF of 6 inch CI with 8 inch DIPCL.	combined with above 2102534	DW20-157 DW20-157	26,459 26,459	3/2/2021	\$ 12,000 \$ 56,000	Yes Yes	\$ 15,000 \$ 60,000		5 14,300 \$ 51,200 \$	- 47.447	Nashua Nashua	Yes		\$ - \$ 1.24	This budget was combined with other Burritt Street budget.
a Street ta Ave	Replace 6/5 LF of 6 inch CI with 8 inch DIPCL. Replace 250 LF of 6 inch CI with 8 inch DIPCL.	2102534 2102531	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 56,000 \$ 24,000	Yes	\$ 60,000 \$ 18,000	\$ 51,200 \$ 32,730	51,200 \$ 532,730 \$	4/,44/ 37,435	Nashua Nashua	Yes	\$ 27.70 \$ 27.70	\$ 1.03	7 37
nack River Pumping Station	Add third 350 horsepower pump with electrical and Structural Improvements.	2102531 2102256	DW20-157	26,459	3/2/2021	\$ 140,000	Yes	\$ 140,000	\$ 140,000	140,000 \$	270,109	Merrimack	Yes	\$ 22.51	\$ 6,08	30
r Farm Tank Replacement n Woods (all side streets)	Replaced 4 MG painted steel water tank with 4 MG prestressed, precast water tank. Replace 4400 LF of 2 inch PVC with 4 inch DIPCL.	2101759 2002685 & 2101761	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 4,000,000 \$ 1,855,000	Yes Yes	\$ 4,000,000 \$ 1,855,000		\$ 4,344,000 \$	3,967,087	Nashua Nashua	Yes Yes	\$ 27.70 \$ 27.70	\$ 109,88	88 Site clean up and landscaping to occur in 2022. 19 Project scope reduced to 5 of the 28 side roads do to excavation difficulties
			Dw20-137	-0,105	3/2/2021	.,				0.1010.000					\$ 20,91	Budget increased based on the results of risk analysis and the resulting actions required by the NHDES. Relating to the
ack River Intake	Merrimack River Intake Modified Source Water Protection Plan	2101763		0.1 DSRR		\$ 30,000	No	\$ 110,000	\$ 60,000	60,000 \$	124,113	Merrimack	No	\$ 22.51	ə -	Part of work will continue into 2022
n Street Avenue	Replace 1240 LF 6 inch CI with 1240 LF 8 inch DIPCL. Replace 425 LF 6 inch CI with 425LF 8 inch DIPCL.	NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 294,000 \$ 100,000	Yes Yes	\$ 294,000 \$ 100,000		-		Nashua Nashua	Yes Yes	\$ 27.70 \$ 27.70	\$ - ¢	Deferred to 2022 for Projects associated with sewer and other utility replacement Deferred to 2022 for Projects associated with sewer and other utility replacement
reet	Final Paving	2102530	DW20-157 DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 30,000		26,400 \$	24,474	Nashua	Yes			Beterieu to 2022 for Projects associated with sewer and other unity repracement 78 Not included in original board approved budget
ua Avenue	Design work for 2022 project	2101749		0.1 DSRR		ş -	No	\$ 10,000		10,000 \$	10,050	Nashua	No	\$ 27.70	ş -	Not included in original board approved budget. Response to Nashua sewer replacement
e Street te Drive	Final Paving, Includes Pine St Interesection 2022	2102535 2103936	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ -	Yes Yes	\$ 16,000 \$ 52,000	\$ 13,500 \$ 52,800	13,500 \$ 52,800 \$	5,433 50,683	Nashua Nashua	Yes	\$ 27.70 \$ 27.70	\$ 15 \$ 1.40	51 Not included in original board approved budget 04 Not included in original board approved budget
in Street Repairs	Ph 2	2105598	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 25,000	\$ 24,000	5 24,000 \$	21,700	Nashua	Yes	\$ 27.70 \$ 27.70	\$ 60	1 Not included in original board approved budget
Avenue	Nearby sewer work forces replacement of outdated 2" CI pipe with 205 LF of new 4" C900 PVC	2105579		0.1 DSRR		\$ -	No	\$ 85,800	\$ 4,000	\$ 4,000	1,233	Nashua	No	\$ 27.70	\$ -	Not included in original board approved budget. Response to Nashua sewer replacement. Materials not available in 20 design only
Street	Sewer work forces replacement of outdated 6" CI pipe with 528 LF of new 6" DIPCL	2105580		0.1 DSRR		ş -	No	\$ 219,400	\$ 8,000	\$ 8,000	2,089	Nashua	No	\$ 27.70	\$ -	Not included in original board approved budget. Response to Nashua sewer replacement. Materials not available in 20 design only
t Hill Internnection	Connecting Pipeline and Meter Pit	NTD	1	NHDES SRF of DWGT	TF	\$ 250,000	Yes	ş -	ş - :	- \$	-	Plaistow	Yes	\$ 26.20	ş -	Deferred to 2022 for NHSRF Funding
Ridge Interconnection RRA- ERP	Connecting Pipeline and Meter Pit Engineering Evaluations to Implement Recommendations	2106256		NHDES SRF ot DWGT 0.1 DSRR	F	\$ 100,000 \$ 200,000	Yes No	\$ - \$ 200,000	\$ 200,000	200,000 \$	- 15.762	Plaistow Various	Yes	\$ 26.20 \$ 24.96	s -	Deferred to 2022 for NHSRF Funding
psizing for South Depot Rd, Hollis	Upsizing of watermain from required 8" per tariff	2200415	DW20-157	26,459	3/2/2021	ş -	Yes	ş -	ş - :	- \$	31,273	Holllis	Yes	\$ 27.30	\$ 85-	54
le GPS and Monitoring Equipment nack River Watershed Council	Level Monitors, Pressure Monitors and Flow Monitors Grant Match with othe Stakeholders \$40k for five years.	2200386 & 2109775 NTD	DW20-157	26,459 0.1 DSRR	3/2/2021	\$ 32,000 \$ 40,000	Yes	\$ 32,000 \$ 40,000		32,000 \$ 40,000 \$	42,456	Various	No	\$ 24.96 \$ 24.96		
Iment in Developer Services	1x Annual Revenue	Routine	DW20-157	26,459	3/2/2021	\$ 90,000	Yes	\$ 140,000		63,000 \$	61,777	Various	Yes	\$ 24.96		42 88 Developer installed services in 2021.
eering Vehicle	SUV Replaces a 2014 vehicle with over 150,000 miles. SUV Relpaces (#34) 2010 with over 196,000 miles.	NTD	DW20-157	26,459	3/2/2021	\$ 30,000 \$ 30,000	Yes	\$ 30,000 \$ 30,000	ş -	- \$		Nashua Nashua	No	\$ 27.70 \$ 27.70	ş -	Purchase deferred to 2022 Purchase deferred to 2022
eering Vehicle 101A Water Main Relocation	Route 101A Water Main Relocation	2008857 & 2102006	DW20-157	26,459 0.1 DSRR	3/2/2021	\$ 30,000	No	\$ 505,000	\$ 15.000	15,000 \$	11,537	Nashua	No	\$ 27.70 \$ 27.70	ş -	Engineering only for 2021, NHDOT deferred construction to 2022
west Pressure System Analysis	Milford, NH	2105480		0.1 DSRR		\$ -	No	\$ 25,000	\$ 25,000	5 25,000 \$	16,949	Nashua	No	\$ 27.70	\$ -	Not included in original board approved budget
ibution System Analysis - HUDSON	Hydraulic modelling and Engineering analysis of the Pennichuck Distribution system's ability to	2105499		0.1 DSRR		s -	No	\$ 25,000	\$ 25,000	25,000 \$	5,058	Nashua	No	\$ 27.70	s -	Not included in original board approved budget
chuck Brook Aerial Survey	provide water to Hudson, NH Pennichuck Brook Aerial Survey	2106254		0.1 DSRR		8	No	\$	\$ 19,500	19,500 \$	14,930	Various	No	\$ 24.96	\$	
Building	New Building 2021 Carryover Costs	2001988 & 2101751		0.1 DSRR		\$ -	No	\$ 35,000		35,000 \$	31,982	Nashua	Yes	\$ 27.70	\$ 88	86 Not included in original board approved budget
Vehicle	SUV Replaces a 2014 vehicle with over 150,000 miles.	NTD	DW20-157	26,459	3/2/2021	\$ 30,000	Yes	s -	\$ - ·	- \$	-	Nashua	No	\$ 27.70 \$ 26.29	s -	Not needed.
errain Contractual Payment	Phase 1 payment per SNHWC contract with Tana Properties. Booster Pump replacement/rebuild	Routine	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 129,200 \$ 40,000	Yes	\$ 129,200 \$ 30,000	\$ 129,200 \$ 54,000	- \$ 5.000 \$	- 41 731	Amherst Various	No Yes	\$ 26.29 \$ 31.52		This payment will not happen until 2022. 11 Booster Pumps installed/repaired in 2021.
er Pump replacement/rebuild	Bowers Landing Replace VFD, Fire Pump #1	2102277	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 4,719		4,719 \$	4,719	Various	Yes			49
er Pump replacement/rebuild	Bowers Landing Replace VFD, Fire Pump #2 High Pine Ave, Replace VFD, Pump #1	2102278	DW20-157	26,459	3/2/2021	ş -	Yes	\$ 4,641	\$ 4,641	4,641 \$	4,642	Various Nashua	Yes Yes	\$ 31.52	\$ 14	16
er Pump replacement/rebuild er Pump replacement/rebuild	Badger Hill Replace VfD, Pump #3	2108089 2107678	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	5 - 5 -	Yes Yes	s - s -	s	- 5	8,363 3,057	Milford	Yes	\$ 27.70 \$ 25.15	\$ 23. \$ 7	77
Pump replacements	Well Pump replacements	Routine	DW20-157	26,459	3/2/2021	\$ 15,000	Yes	\$ 24,000	\$ 11,677	\$ 16,000	11,677	Various	Yes	\$ 24.96	\$ 29	91 3 Well Pumps installed/repaired in 2021.
ical Feed pump replacements y Pond Spillway Improvements	Chemical Feed pump replacements Supply Pond Spillway Improvements	Routine 2101927	DW20-157	26,459 0.1 DSRR	3/2/2021	\$ 10,000 \$ 750,000	Yes	\$ 4,000 \$ -	\$ 1,000 \$ 52,820	1,000 \$ 52,820 \$	1,762	Various Merrimack/Nashua	Yes	\$ 24.96 \$ 25.11	\$ 4 \$	44 1 Chemical Pump installed/repaired in 2021. Work not required due to Hazard level reclassification of Bowers Dam
Dam raise earthen embankment, raise dike wall, regulatory requirement.		2101925		0.1 DSRR		\$ 965,000	No	s -	\$ 42,000	\$ 42,000 \$	40,550	Merrimack/Nashua	No	\$ 25.11 \$ 25.11		Deferred to 2022. Project scope will change due to Hazard level reclassification of Bowers Dam. Design only
	Harris Dam raise earthen embankment, raise dike wall, regulatory requirement.					* 200,000	NU-	- -	т <u>4,000</u> 8	72,000 3	27 274			e 20.11	\$ - \$	sectors to 2022. Troject scope will change due to trazard rever recrassification of bowers Dam. Design only
Purchase - I. Ferry and I. Westland Structural Improvements	Watershed Protection Misc. Structural Improvements	2200488 NTD	DW20-157	0.1 DSRR 26,459	3/2/2021	3 - \$ 20.000	No Yes	• - \$ 15.515	\$ - \$ 32,915	- \$	27,371	Nashua Various	Yes Yes	\$ 27.70 \$ 24.96	» 75 \$ -	.0
Structural Improvements	Replace Sewage Ejection Pump 2, WTP	2102276	DW20-157	26,459	3/2/2021	\$ -	Yes	\$ 4,485	\$ 4,485	4,485 \$	4,485	Various	Yes	\$ 24.96	\$ 112	12
laneous Equipment Purchased laneous Equipment Purchased	Miscellaneous Equipment Purchased Install Softener, Farley Road Estates, Nashua	NTD 2104003	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 20,000 \$ -	Yes Yes	\$ 15,000 \$ 5,000		5,000 \$ 5,000 \$	- 7 246	Various Various	Yes Yes	\$ 24.96 \$ 24.96		81
laneous Equipment Purchased	Purchase new confined space entry winch	2107804	DW20-157	26,459	3/2/2021	\$	Yes	\$ - <u>-</u>	\$ 2,225	2,225 \$	2,216	Various	No			<u></u>
Ilaneous SCADA/Electrical Ilaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	NTD 2104170	DW20-157	26,459	3/2/2021	\$ 30,000	Yes Yes	\$ 21,500 \$ 5,500	\$ 6,533 \$ 5,500	- \$	5 941	Various	Yes Yes	\$ 24.96		Some budget money was pulled into 2102309 VFD pump #3
aneous SCADA/Electrical	Replace PLC and install cellular modem, Taylor Falls Station, Nashua Purchase new Studio 5000 lfix SCADA Software	2104170 2105691	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	ş -	Yes Yes	a 5,500 \$ -	\$ 5,500 \$ 4,272	5,500 \$ 4,272 \$	5,941 4,273	Various Nashua	Yes	\$ 24.96 \$ 27.70	\$ 14 \$ 11	0 18
laneous SCADA/Electrical	Purchase spare circuit boards for Rotork actuators	2107682	DW20-157	26,459	3/2/2021	\$ -	Yes	ş -	\$ 4,345	4,345 \$		Nashua	Yes	\$ 27.70	ş -	Circuit Boards not available.
Ianeous SCADA/Electrical Ianeous SCADA/Electrical	Replace 5 year old SCADA node computers Replace PLC at High Pinc Pump Station	NTD 2108485	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	s -	Yes Yes	» - S -	\$ 29,000 \$ -	- 5	- 13,075	Nashua Nashua	Yes Yes	\$ 27.70 \$ 27.70	\$ - \$ 36	Windows operating platform does not support new release of SCADA software.
6 Ultrasonic Tank Level monitors	Replace failed WTP Bulk and Day tank level monitors	2107683 & 2108371	DW20-157	26,459	3/2/2021	\$ -	Yes	ş -	ş	- \$	11,190	Nashua	Yes	\$ 27.70	\$ 31	10
1 1 High lift/Intermediate pump	Rebuild 1 High lift/Intermediate pump	NTD 2102200	DW20-157	26,459	3/2/2021	\$ 25,000	Yes	\$ 25,000	\$ 25,000	5 - 5	-	Nashua	Yes	\$ 27.70	\$ - c	Supply Chain disruption
VFD, Intermediate Pump #3 WTP structural/HVAC	Replace VFD, Intermediate Pump #3 WTP WTP Structural/HVAC	2102309 NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ - \$ 10,000	Yes Yes	\$ 28,000 \$ 10,000	\$ 28,000 \$ 10,000	28,000 \$ - \$	27,298	Nashua Various	Yes Yes	\$ 27.70 \$ 24.96	\$ 75i	56 Do you anticpate completing any of this work by year end?
ase new lab equipment	Purchase Lab Bench Top Turbidimeter	2108537	Excess 0.1 DSR	R funds as of 12/31/20	21 per noted 3&4	\$ 20,000	Yes	\$ 20,000	\$ 20,000	\$ 5,000 \$	4,367	Nashua	No	\$ 24.96 \$ 27.70	\$ -	Is this happening?
Ianeous Fencing and Security projects Ianeous Fencing and Security projects Ianeous Fencing and Security projects	Miscellaneous Fencing and Security projects	NTD 2103214	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 10,000	Yes Yes	\$ 1,850 \$ 8,150		5 - \$ 8.150 \$	9 150	Various Various	Yes Yes	\$ 24.96 \$ 24.96		03
hird pump - Donald Street Booster Station	Install Perimeter Fence around remote wells, Badger Hill, Milford Add Third pump - Donald Street Booster Station	2103214 NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$	Yes	* 8,150 \$ -	\$ -	- 0,130 \$	0,130	Bedford	Yes	\$ 24.96 \$ 22.08		03 deferred until 2022
e replacement	Vehicle replacement-replace vehicle 210. >160,000 miles, 3K repairs in 2020.	2108277	Excess 0.1 DSR	R funds as of 12/31/20	21 per noted 3&4	\$ 55,000	Yes	\$ 55,000	\$ 55,000	45,000 \$	41,677	Nashua	No	\$ 27.70	ş -	Truck on the road. Plow and cap to be installed in 2022
e replacement ce 6 filter turbidimeters (manufacturer no longer supports current units).	Vehicle replacement - Replace vehicle 351. >163,000 miles, 6K repairs in 2020. Replace 6 filter turbidimeters (manufacturer no longer supports current units).	NTD	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 40,000 \$ 30,000	Yes Yes	\$ 40,000 \$ 30,000	\$ - : \$ 30,000			Nashua Nashua	No Yes	\$ 27.70 \$ 27.70	\$ - \$	deferred until 2022 deferred until 2022
d of Pump 2 @ Merrimack River Intake.	Rebuild of Pump 2 @ Merrimack River Intake.	2108557	DW20-157	26,459	3/2/2021	\$ 75,000	Yes	\$ 75,000		75,000 \$	113,322	Merrimack	Yes Yes	\$ 22.51	\$ 2,55	31
Disconnect Switch On Pump 2 At Merrimack River Replace Soffit and Fascia, Boat House Bldg.	Replace Disconnect Switch On Pump 2 At Merrimack River Repair/Replace Soffit and Fascia, Boat House Bldg.	2108529 2103205	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ - \$ 30.000	Yes Yes	\$ - \$ 15.000	\$ - \$ 12,600	- \$	4,046	Merrimack Nashua	Yes Yes	\$ 22.51 \$ 27.70		91 CoVID delay
new Day Fuel Tank, Controller and related equip. FWPS Generator	Regulatory requirement, existing equipment is malfunctioning and unreliable, Soft	2103205 NTD	DW20-157 DW20-157	26,459		\$ 30,000 \$ 75,000	Yes	y 15,000 \$ -	\$			Nashua	No		¥ -	Piping reconfigured and replaced as maintenance project. Scope limited.
e Pakscan Master Station, WTP	metals present in piping system which is not allowed. Replace Pakscan Master Station, WTP	2103886	DW20-157 DW20-157	26,459	3/2/2021 3/2/2021	\$ -	Yes	\$ - \$ 44,000	\$ 44,082	- s - 44,082 \$	44,082	Nashua	Yes	\$ 27.70	\$ -	This project was originally expected in 2020 but not completed due to production issues. Completed in 2021 but not i
	,			,	., .,	I		,			,			\$ 27.70	\$ 1,22	21 approved budget as a carryover. 09 This project was originally expected in 2020 but not completed due to production issues. Completed in 2021 but not
CADA Control System, Powder Hill, Bedford	New SCADA Control System, Powder Hill, Bedford	2103888		R funds as of 12/31/20			Yes	\$ 9,500	\$ 9,500	9,500 \$	9,475	Bedford	Yes	\$ 22.08		

Pennichuck Water Works, Inc. DW 22-xxx 2021 used and useful QCPs 2/14/2022

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible	Estimated Project Cost as of 6/30/2021	Estimated Proje Cost as of 9/30/2021	Cost as of 11/30/2021	t Final Project o as of 12/31/20	21 Com	munity	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
Bowers Dam 2021 Permitting and design	Bowers Dam 2021 Permitting and design	2107806		0.1 DSRR		ş -	No	ş -	\$ 154,00		* 0.73		ck/Nashua	No	\$ 25.11	*	Dam construction will occur in 2022
CMMS replacment project	Replace Synergen/WAM with newer more cost effective/improved functionality syster	2101757	DW20-157	26,459	3/2/2021	\$ 100,000	Yes	\$ 100,000					shua	No	\$ 27.70		
nfoview Licenses	Infoview Licenses	2104021	Excess 0.1 DSI	RR funds as of 12/31/20)21 per noted 3&6	\$ 65,000	Yes	\$ 53,450	\$ 53,45	0 \$ 53,45	\$ 53,	450 Na	shua	No	\$ 27.70	ş -	
Redundant Internet	The new phone system, these phone lines use the internet to make and receive telephone calls. We currently only have a single internet feed for the office and the WTP/Distribution facilities. This project provides a secondary internet feed into the Distribution facility which internet will provide us a redundant path to the internet in case one fails. This secondary internet feeds the internet load from the 3 major locations between the 2 internet connections instead of one.	2102395		s as of 12/31/2021 per r approved in NHPUC O:	noted 3&7 with remainde rder #23,459	er \$ 69,000	Yes	\$ 69,000	\$ 44,83	2 \$ 44,83	\$ 43,	470 Na	shua	No	\$ 27.70	\$-	
Treatment Plant and Distribution security retrofit	Update both the Treatment plant and Distribution to the same security system that the new HQ is using so that there is one badge procedure and system to maintain. It will also gives us better analytics and notifications of access to each of the buildings.	2103934	DW20-157	26,459	3/2/2021	\$ 37,000	Yes	\$ 120,000	\$ 126,00	0 \$ 126,00	\$ 128,	419 Nashua		Yes	\$ 27.70	\$ 3,557 C	Thange of Scope for 2 remote facilities. Existing wiring at Distribution not adequate for new system. Add gate, request f Exist, change int keypad functionality.
IT Storage Room / Work Room	Add tool box, work bench and parts storage to the IT room to keep things organized to provide a place to work on physical computers and perform repairs.	2105690	DW20-157	26,459	3/2/2021	\$ 4,000	Yes	\$ 4,000	\$ 4,00	0 \$ 4,00	\$ 1,	255 Na	shua	No	\$ 27.70	\$ -	
Cybernetics Disk Array	Replace 7 year of device used for system back ups.	2104055	Excess 0.1 DSI	RR funds as of 12/31/20	21 per noted 3&4	\$ 20,000	Yes	\$ 12.000	\$ 20.00	0 \$ 20.00	S 10	043 Na	shua	No	\$ 27.70	s -	
Virtual Desktops	The majority of the office computers will be 5 years old in 2021. The plan is create a Virtual Desktop that will support up to 50 concurrent users. By shifting the computing and disk requirements to a client server will increase computer speed that will allow the existing desktops to remain in service for several more years. Additionally the client server provides more flexibility to the end user to allow them to work at other locations and still get all their settings and programs to perform their job.	2104056		R funds as of 12/31/20	•	\$ 106,000	Yes	\$ 60,000					shua	No	\$ 27.70		
Computer Updates	There are 30 Computers that are due for replacement in 2023. These computers have very slow hard drives which make these computer frustrating for the end user to use. The systems decrease production from the user because of the time that programs open or being responsive. We should at least update these computers with new SSD drives to increase the productivity of the end user and give them a better end user experience.	NTD	DW20-157	26,459	3/2/2021	\$ 6,000	Yes	\$ 6,000	ş -	\$ -	ş	- Na	shua	No	\$ 27.70	\$ - W	Went to all virtual syswtems instead of PC's
Snow Station Switch Replacement	Replace the outdated switch that connects the fiber optic cable from outsdie to the inside of the WTP.	NTD	DW20-157	26,459	3/2/2021	\$ 1,000	Yes	\$ 1,000	\$ 1,00	0 \$ 1,00	s s	- Na	shua	Yes	\$ 27.70	\$ - P	Project Deferred
Munis FER Enancements	Munis FER Enhancements	NTD	DW20-157	26,459	3/2/2021	\$ 35,000	Yes	\$ 35,000	\$ 20,38	4 \$ 25,00	\$	- Na	shua	No	\$ 27.70	\$ - P	Project Deferred
Click to Munis Data interfaces	Implement connection between ClickSoft and Munis to reduce the need of user to duplicate data entery into Munis from information captured in ClickMobile.	NTD	DW20-157	26,459	3/2/2021	\$ 20,000	Yes	\$ 20,000	-	ş -	\$		shua	No	\$ 27.70	ş -	roject Deferred
MMS PLL Implementation	Implemtation of Cityworks PLL. Cityworks PLL simplifies applications for customers a	2103213		RR funds as of 12/31/20		\$ 170,000	Yes	\$ 125,595		0 \$ 170,00	\$ 140,		shua	No	\$ 27.70		
ityworks PLL License	License for above (Estimate)	NTD NTD	DW20-157	26,459	3/2/2021	\$ 40,000	Yes	\$ 13,875		Ş -	\$		shua	No	\$ 27.70		This project got cancelled since it was only for licenses.
lisc Hardware	Misc Hardware Small MFP's at Distribution	2101826	DW20-157	26,459 R funds as of 12/31/20	3/2/2021	\$ 20,000	Yes	\$ 8,082 \$ 2,195					rious	No	\$ 24.96 \$ 24.96		
lisc Hardware	Replacement Laptops - CS	2101826 2102671		RR funds as of 12/31/20 RR funds as of 12/31/20		3 -	Yes	\$ 2,195 \$ 3,500		5 \$ 2,19 0 \$ 3,50				No	\$ 24.96 \$ 24.96		
lisc Hardware	New Laptops for Engineering Interns	21026/1 2103177		R funds as of 12/31/20 R funds as of 12/31/20		 -	Yes	\$ 3,500 \$ 3,349					rious	No	\$ 24.96 \$ 24.96		
fisc Hardware	4 iPads & iPad cases	2105019		R funds as of 12/31/20 R funds as of 12/31/20		\$	Yes	\$ 2,874		4 \$ 2,45			rious	No	\$ 24.96 \$ 24.96		
fisc Hardware	Windows Server Liscence	2109595		R funds as of 12/31/20 R funds as of 12/31/20		s .	Yes	\$ -	\$ -	s -			shua	No	\$ 24.90 \$ 27.70		
lisc Hardware	Laptops for Remote Workers	2109355		R funds as of 12/31/20		\$	Yes	S -	s -	S -			rious	No	\$ 24.96		
emote User Laptops	Remote User Laptops	2104113		RR funds as of 12/31/20		\$ -	Yes	\$ 36,000	\$ 36,00	0 \$ 36,00			rious	No	\$ 24.96		
lisc Software	Misc Software	NTD	DW20-157	26,459	3/2/2021	\$ 12,000	Yes	\$ 12,000			\$		rious	No	\$ 24.96		
VTP Wifi expansion	WTP Wifi expansion	NTD	DW20-157	26,459	3/2/2021	\$ 15,000	Yes	\$ -	ş -	\$ -	\$		shua	No	\$ 27.70	\$ - E	Determined that the need was not there for the use of this technology.
tedundant VPN Installation	Redundant VPN Installation	2108090	DW20-157	26,459	3/2/2021	\$ -	Yes	ş -	\$ 14,61	6 \$ 14,61	\$		shua	No	\$ 27.70	\$ - E	Equipment not available until 2022 so not eligible for 2021 QCPAC
aptop for Scada/Electrical Tech	Laptop for Scada/Electrical Tech	2108558	Excess 0.1 DSI	RR funds as of 12/31/20)21 per noted 3&4	ş -	Yes	ş -	ş -	ş -			shua	No	\$ 27.70		
CO Call Recording		2108534		0.1 DSRR		\$ -	No	ş -	ş -	ş -			shua	No	\$ 27.70		
nion Negotiations 2021	Negotiations for 2021 to 2023 Uniion Contract	2200472		0.1 DSRR		ş -	No	ş -	\$ -	ş -			rious	No	\$ 24.96	\$ -	
etainage	Paid out in 2021 on retainage held on 2020 projects.	N/A	DW20-157	26,459	3/2/2021	ş -	Yes	ş -	ş -	ş -	\$ 35,		rious	No		ş -	
Retainage	Held on various projects listed above. Will be paid out in 2022.	N/A	DW20-157	26,459	3/2/2021	ş -	Yes	\$ -	<u>\$</u> -	ş -	\$ (432,		rious	No	-	ş -	
ojected short term interest on FALOC	Interest incurred to finance 2021 Capex until permanent financing is achieved	N/A		RR funds as of 12/31/20		ş -	Yes	\$ 128,379	•	9 \$ 128,37			/A	No	ş -	\$ -	
			Per	unichuck Water Works	Projected 2021 Total C	a \$ 12.015.200	\$ -	\$ 11.171.559	\$ 9 200 60	0 \$ 8,698,98	\$ 7,585,4	154 Proj	jected Property	Tay Expense	associated with	a \$ 175,423	

	Total P		nded PWW QCPA	0.1 DSRR 2021 Projects - \$ C Capex for 2021 (3) (4) - \$ QCPAC Capex for 2021 - \$	1,296,000 10,369,200 350,000	\$ \$ \$	1,316,200 \$ 9,855,359 \$ - \$	698,500 \$ 8,502,100 \$ - \$	698,500 \$ 8,000,489 \$ - \$	447,447 6,423,445 -
Estimated Bond Terms (Bonds to be sold in April 2022) -	30	Years @	4.5%	resulting in P&I of \$	636,581	s	605,036 \$	521,957 \$	491,162 \$	394,345
DWGTF Terms -	30	Years @	3.38%	resulting in P&I of \$	18,745	\$	- \$	- \$	- \$	-

714,562

Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of \$6.60/\$1000
 TJD - No Work Order Established to Date
 OLD SRR cash balances on f123/1/2021 after funding 2021 0.1 DSRR capital expenditures \$
 A. Amount to be bonded for in April 2022 is reduced by the 0.1 DSRR cash balance in Note 3 above.

which exceeds the desired impressed combined RSF level of \$ 3,920,000

		Fi	inancing Docket	NHPUC Order	Date of NHPUC	Approved Budgeted					CPAC Eligible Property Tax	
Project Name/Description	Project Description	Work Order #	No.	No.	Order	Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	Expense	Explanation for Change/Addition/Deletion since Feb 2022 Filing
Office Space for Const & Maint Supervisor	Permanent Office space for Construction & Maint Supervisor		DW20-157	26,459	3/2/2021	\$ 15,000	Yes	Merrimack	Yes	\$ 22.51 \$	338	
Locker Room Wash Sinks	Deep stainless wash sinks to replace existing sinks in male & female locker rooms		DW20-157	26,459	3/2/2021	\$ 10,000	Yes	Merrimack	Yes	\$ 22.51 \$	225	
Locker Room Benches 2022 New Services (15)	Permanent Benches in Men's & Women's Locker Rooms	-	DW20-157	26,459 26,459	3/2/2021	\$ 7,500	Yes	Merrimack	Yes	\$ 22.51 \$	169	
2022 New Services (15) 2022 Renewed Services (20)	Single Family, Owner Build, New Homes Replacement of Failed Services	+	DW20-157 DW20-157	26,459	3/2/2021 3/2/2021	\$ 75,000 \$ 110.000	Yes Yes	Various Various	Yes Yes	\$ 24.96 \$ \$ 24.96 \$	1,872	
2022 Hydrants (10)	Replacement of non functional hydrants		DW20-157	26,459	3/2/2021	\$ 60,000	Yes	Various	Yes	\$ 24.96 \$	1,498	
2022 Gates (20)	Replacement of Failed Gate Valves		DW20-157	26,459	3/2/2021	\$ 80,000	Yes	Various	Yes	\$ 24.96 \$	1,997	
2022 Radios (250)	New Radios for new customers (250) Yr 2 of 10 year Replacment of all PWW Radios installed in 2007 (2800)	-	DW20-157	26,459	3/2/2021	\$ 25,000 \$ 280,000	Yes	Various	Yes	\$ 24.96 \$	624	
2022 Radios (2800) 2022 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers, including PFOA (250). Replacement of failed meters(250)	+ +	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ <u>280,000</u> \$ 50.000	Yes Yes	Various Various	Yes Yes	\$ 24.96 \$ \$ 24.96 \$	6,989 1,248	
Replacement Dump Truck	Replacement for Truck # 7, 2011 Peterbuilt T-335, 100K+ miles, 2500 hrs, high maint & Repair		DW20-157	26,459	3/2/2021	\$ 125,000	Yes	Merrimack	No	\$ 22.51 \$	-	
Replacement Utility Truck	New Utility Truck to replace #84, 2014 F-350, 120k miles, High maint & Repair costs		DW20-157	26,459	3/2/2021	\$ 70,000	Yes	Merrimack	No	\$ 22.51 \$	-	
Replacement Utility Truck	New Utility Truck to replace #9, 2014 F-350, 120k miles, High Maint & Repair costs		DW20-157	26,459	3/2/2021	\$ 70,000	Yes	Merrimack	No	\$ 22.51 \$	-	
Replacment Supervisor Pickup Protectus Meter Upgrade	New Full sized Pickup to replace #21, 2013 Chevy Equinox, 150k miles, Hi Maint & Repair costs Protectus Meter Upgrade		DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 50,000 \$ 22,000	Yes Yes	Merrimack Nashua	No Yes	\$ 22.51 \$ \$ 27.70 \$	- 609	
Miscellaneous Construction Equipment	Miscellaneous Construction Equipment		DW20-157 DW20-157	26,459	3/2/2021	\$ 40,000	Yes	Merrimack	No	\$ 22.51 \$	-	
New 22 Ton Tilt Trailer	22 Ton Tilt Trailer to transport Excavator for Distribution Crew Work		DW20-157	26,459	3/2/2021	\$ 30,000	Yes	Merrimack	No	\$ 22.51 \$	-	
Air Compressor for Vac/Valve Truck	Inline Air Compressor for Valve/Vac Truck for Jack Hammer & other equipment use		DW20-157	26,459	3/2/2021	\$ 12,000	Yes	Merrimack	No	\$ 22.51 \$	-	
Kessler Farm Tank Replacement	Replaced 4 MG painted steel water tank with 4 MG prestressed, precast water tank.		DW20-157	26,459	3/2/2021	\$ 300,000	Yes	Nashua	Yes	\$ 27.70 \$	8,310	
Coburn Woods (all side streets) Phase 1 Miami Street	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL. Complete main replacement and restoration in 2021 - Replace 429 LF of 2" CL pipe with 8" DIPCL	+	DW20-157	26,459 26,459	3/2/2021	\$ 300,000 \$ 177,000	Yes	Nashua	Yes	\$ 27.70 \$ \$ 27.70 \$	8,310	
Miami Street Kendrick Street	Complete main replacement and restoration in 2021 - Replace 429 LF of 2" CL pipe with 8" DIPCL Sewer work forces replacement of outdated 6" Cl pipe with 466 LF of new 6" DIPCL	+	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 177,000 \$ 190,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.70 \$ \$ 27.70 \$	4,903 5,263	
Faxon Avenue	Nearby sewer work forces replacement of outdated 2" CI pipe with 205 LF of new 4" C900 PVC	+ +	DW20-157 DW20-157	26,459	3/2/2021	\$ 190,000	Yes	Nashua	Yes	\$ 27.70 \$ \$ 27.70 \$	2,382	
Faxon Street	Sewer work forces replacement of outdated 6" CI pipe with 528 LF of new 6" DIPCL		DW20-157	26,459	3/2/2021	\$ 220,000	Yes	Nashua	Yes	\$ 27.70 \$	6,094	
Chataqua Ave	Broad St. to End Replace/Add 780 feet of 1.25"/4"/6" Installed in 1915-1963 with 4"/6"		DW20-157	26,459	3/2/2021	\$ 209,000	Yes	Nashua	Yes	\$ 27.70 \$	5,789	
Niquette Dr.	E. Dunstable to service 12 Niquette Replace/Add 525 feet of 2" installed in 1960 with4"	↓	DW20-157	26,459	3/2/2021	\$ 131,000	Yes	Nashua	Yes	\$ 27.70 \$	3,629	
Pine Hill Ave Mt. Pleasant St.	Wright Rd. to End Replace/Add 300 feet of 1.25" installed in 1953 with 4" Merrimack St. to Manchester St. Replace/Add 400 feet of 1.5" installed in 1955 with 8"		DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 75,000 \$ 117,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.70 \$ \$ 27.70 \$	2,078	
French St.	Merrimack St. to 10 French Replace/Add 340 feet of 2"/6" installed in 1955 with 8		DW20-157 DW20-157	26,459	3/2/2021	\$ 117,000	Yes	Nashua Nashua	Yes	\$ 27.70 \$ \$ 27.70 \$	3,241 2.410	
Dudley St.	June St. to E. Hobart St. Replace/Add 830 feet of 1.25"/8" CI/AC installed in 1957-1971 with 8"		DW20-157	26,459	3/2/2021	\$ 256,000	Yes	Nashua	Yes	\$ 27.70 \$	7,091	
Ledgewood Hills Dr. /Heather	To Intersection Replace/Add 10 feet of Unconnected installed in with 8		DW20-157	26,459	3/2/2021	\$ 5,000	Yes	Nashua	Yes	\$ 27.70 \$	139	
Rita St.	Allds St. to 6 Rita Replace/Add 210 feet of 1.5" CICL installed in 1956 with 4"		DW20-157	26,459	3/2/2021	\$ 53,000	Yes	Nashua	Yes	\$ 27.70 \$	1,468	
Salem St.	Whitney St. to Summer St. Replace/Add 855 feet of 4"/6" installed in 1888-1927 with 6"		DW20-157	26,459	3/2/2021	\$ 253,000	Yes	Nashua	Yes	\$ 27.70 \$	7,008	
Walnut St. Route 101A Water Main Relocation	W. Pearl St. to W. Hollis St. Replace/Add 830 feet of 6"/8" installed in 1888-1931 with 12" Route 101A Water Main Relocation		DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 312,000 \$ 600,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.70 \$ \$ 27.70 \$	8,642 16,620	
PWW RRA- ERP	Implement Recommendations Evaluated in 2021		DW20-157 DW20-157	26,459	3/2/2021	\$ 500,000	Yes	Various	Yes	\$ 24.96 \$	12,480	
Milford Booster Station	Replace/Relocate Milford Booster Station (Design & Permitting)		DW20-157	26,459	3/2/2021	\$ 60,000	No	Amherst	No	\$ 26.29 \$,	To be paid for by Milford Water Department via Special contract.
City Sewer Projects (2022)	Replace CI, AC, and other older main distrupted by sewer construction		DW20-157	26,459	3/2/2021	\$ 300,000	Yes	Nashua	Yes	\$ 27.70 \$	8,310	
Coburn Tank Area HP Zone Watermain	Create new HP area with 1600 LF of Water Main and Check Valves		DW20-157	26,459	3/2/2021	\$ 800,000	Yes	Nashua	Yes	\$ 27.70 \$	22,160	
Coburn Tank Area HP Booster Station	New Domestic flow and pressure booster station		DW20-157	26,459	3/2/2021	\$ 550,000	Yes	Nashua	Yes	\$ 27.70 \$	15,235	
Investment in Developer Services	1x Annual Revenue		DW20-157	26,459	3/2/2021	\$ 140,000	Yes	Various	Yes	\$ 24.96 \$	3,494	
Trimble GPS and Monitoring Equipment Sweet Hill Internnection	Level Monitors, Pressure Monitors and Flow Monitors Connecting Pipeline and Meter Pit		DW20-157 SRF	26,459 Petiton n	3/2/2021 nust be filed	\$ 32,000 \$ 220,000	Yes Yes	Merrimack Plaistow	No Yes	\$ 22.51 \$ \$ 26.20 \$	- 5,764	
Twin Ridge Interconnection	Connecting Pipeline and Meter Pit		SRF		nust be filed	\$ 220,000	Yes	Plaistow	Yes	\$ 26.20 \$ \$ 26.20 \$	2,620	
Engineering Vehicle	SUV Replaces 2010 SUV #33 with over 118,000 miles.		DW20-157	26,459	3/2/2021	\$ 30,000	Yes	Nashua	No	\$ 27.70 \$	-	
Engineering Vehicle	SUV Relpaces (#34) 2010 with over 196,000 miles.		DW20-157	26,459	3/2/2021	\$ 30,000	Yes	Nashua	No	\$ 27.70 \$	-	
Snow Station Building Addition	Addition of a third High Lift Pump (Design & Permitting)			0.1 DSRR		\$ 100,000	No	Nashua	No	\$ 27.70 \$	-	
Engineering Studies: WTP	Chemical Feed and Storage, PFAS treatment		D.W.80 455	0.1 DSRR	a /a /acat	\$ 50,000	No	Nashua	No	\$ 27.70 \$	-	
Atherton Commons	Install 9 Meter Boxes (Pits) and 45 inside meters with expansion tank	+	DW20-157	26,459	3/2/2021	\$ 125,000	Yes	Amherst	Yes	\$ 26.29 \$	3,286	
English Woods Alternative Source Interconnection	Interconnect the English Woods CWS to the Donald St PS w/ building expansion to remove chloramines		DW20-157	26,459	3/2/2021	\$ 310,000	Yes	Bedford	Yes	\$ 22.08 \$	6,845	
Replace 6 filter turbidimeters (manufacturer no longer support/	ts d Replace 6 filter turbidimeters (manufacturer no longer supports current units)	1	DW20-157	26,459	3/2/2021	\$ 30,000	Yes	Nashua	Yes	\$ 27.70 \$	831	
Replace siding and soffit, boat house on WTP grounds	Replace missing trim and soffit along the roof line of the Boat House building on the Nashua WTP grounds		DW20-157	26,459	3/2/2021	\$ 14,000	Yes	Nashua	Yes	\$ 27.70 \$	388	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	\downarrow \Box	DW20-157	26,459	3/2/2021	\$ 40,000	Yes	Various	Yes	\$ 24.96 \$	998	
Well Pump replacements Chemical Feed pump replacements	Well Pump replacements Chemical Feed pump replacements	+	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 25,000 \$ 10,000	Yes Yes	Various Various	Yes Yes	\$ 24.96 \$ \$ 24.96 \$	624 250	
Replace Ferric Chloride feed pumps, Nashua WTP	Replace Ferric Chloride feed pumps, Nashua WTP	+ +	DW20-157 DW20-157	26,459	3/2/2021	\$ 10,000	Yes	Nashua	Yes	\$ 24.96 \$ \$ 27.70 \$	1,385	
Replace WTP SCADA computers	Replace WTP SCADA computers	1 1	DW20-157	26,459	3/2/2021	\$ 28,000	Yes	Nashua	Yes	\$ 27.70 \$	776	
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	26,459	3/2/2021	\$ 30,000	Yes	Various	Yes	\$ 24.96 \$	749	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW20-157	26,459	3/2/2021	\$ 30,000	Yes	Various	Yes	\$ 24.96 \$	749	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	╡───┤	DW20-157	26,459	3/2/2021	\$ 60,000	Yes	Various	Yes	\$ 24.96 \$	1,498	
Rebuild 1 High lift/Intermediate pump WTP Structural/HVAC	Rebuild 1 High lift/Intermediate pump WTP Structural/HVAC	+	DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 50,000 \$ 20,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.70 \$ \$ 27.70 \$	1,385 554	
	Purchase new lab equipment	+ +	DW20-157 DW20-157	26,459	3/2/2021	\$ 20,000	Yes	Nashua	No	\$ 27.70 \$ \$ 27.70 \$	-	
Purchase new lab equipment			DW20-157	26,459	3/2/2021	\$ 10,000	Yes	Various	Yes	\$ 24.96 \$	250	
Purchase new lab equipment Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects				1	A 050 000	Yes	Merrimack/Nashua	Yes	\$ 25.11 \$	46,444	
Miscellaneous Fencing and Security projects Bowers Dam Spillway reconstruction/increase capacity	Bowers Dam Spillway reconstruction/increase capacity		DW20-157	26,459	3/2/2021	\$ 1,850,000		Merrinnack/ rvasirua	103		10,111	
Miscellaneous Fencing and Security projects Bowers Dam Spillway reconstruction/increase capacity vehicle replacement	Bowers Dam Spillway reconstruction/increase capacity vehicle replacement		DW20-157	26,459	3/2/2021	\$ 55,000	Yes	Nashua	No	\$ 27.70 \$	-	
Miscellaneous Fencing and Security projects Bowers Dam Spillway reconstruction/increase capacity vehicle replacement vehicle replacement	Bowers Dam Spillway reconstruction/increase capacity vehicle replacement vehicle replacement		DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 55,000 \$ 40,000	Yes Yes	Nashua Nashua	No No	\$ 27.70 \$ \$ 27.70 \$	-	
Miscellaneous Fencing and Security projects Bowers Dam Spillway reconstruction/increase capacity vehicle replacement vehicle replacement Re-paint FWPS ceiling	Bowers Dam Spillway reconstruction/increase capacity vehicle replacement vehicle replacement Re-paint FWPS ceiling		DW20-157 DW20-157 DW20-157	26,459 26,459 26,459	3/2/2021 3/2/2021 3/2/2021	\$ 55,000 \$ 40,000 \$ 20,000	Yes Yes Yes	Nashua Nashua Nashua	No No Yes	\$ 27.70 \$ \$ 27.70 \$ \$ 27.70 \$ \$ 27.70 \$	- - 554	
Miscellaneous Fencing and Security projects Bowers Dam Spillway reconstruction/increase capacity vehicle replacement vehicle replacement	Bowers Dam Spillway reconstruction/increase capacity vehicle replacement vehicle replacement		DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 55,000 \$ 40,000	Yes Yes	Nashua Nashua	No No	\$ 27.70 \$ \$ 27.70 \$	-	
Miscellaneous Fencing and Security projects Bowers Dam Spillway reconstruction/increase capacity vehicle replacement vehicle replacement Re-paint FWPS ceiling Carbon Filter Media	Bowers Dam Spillway reconstruction/increase capacity vehicle replacement vehicle replacement Re-paint FWPS ceiling Carbon Filter Media		DW20-157 DW20-157 DW20-157 DW20-157	26,459 26,459 26,459 26,459 26,459	3/2/2021 3/2/2021 3/2/2021 3/2/2021	\$ 55,000 \$ 40,000 \$ 20,000 \$ 1,300,000	Yes Yes Yes Yes	Nashua Nashua Nashua Nashua	No No Yes Yes	\$ 27.70 \$ \$ 27.70 \$ \$ 27.70 \$ \$ 27.70 \$ \$ 27.70 \$	- - 554	

Pennichuck Water Works, Inc. DW 22-xxx 2022 Projected QCPAC Expenditures 2/14/2022

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Appr		QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2022 Filing
Cameras for Plant	Update and add additional cameras at WTP and pond intakes to enhanced security		DW20-157	26,459	3/2/2021	\$	137,000	Yes	Nashua	No	\$ 27.70	ş -	
Virtualization of Engineering Applications	Virtual desktop environment for Engineering so that a user can work anywhere with an network connection without the need for high end desptops or laptops.		DW20-157	26,459	3/2/2021	\$	83,000	Yes	Nashua	No	\$ 27.70	ş -	
Secondary Production Storage	Additional storage to our production environment		DW20-157	26,459	3/2/2021	\$	52,000	Yes	Nashua	No	\$ 27.70	ş -	
Veeam Back Licensing to support SCADA Servers	Standardization of Backup software for SCADA servers to be what the rest of the Company uses.		DW20-157	26,459	3/2/2021	\$	16,000	Yes	Nashua	Yes	\$ 27.70	\$ 443	
5th Virtual Server	Due to our strategy of moving towards a virtualized infrastructure, this would give us the necessary redundency incase on of our existing Virtual servers fails.		DW20-157	26,459	3/2/2021	\$	45,000	Yes	Nashua	No	\$ 27.70	\$ -	
Boardroom Camera and Microphone	Needed as the equipment currently used from the previous facility is not providing a quality experience		DW20-157	26,459	3/2/2021	\$	15,000	Yes	Nashua	No	\$ 27.70	ş -	
Jpdate Audio in Distribution Lunch/Training room	As we are doing more training at this location, additional configuration changes are needed.		DW20-157	26,459	3/2/2021	\$	14,000	Yes	Nashua	No	\$ 27.70	ş -	
Miscellaneous Software	Miscellaneous Software		DW20-157	26,459	3/2/2021	\$	12,000	Yes	Nashua	No	\$ 27.70	ş -	
Miscellaneous Hardware	Miscellaneous Hardware		DW20-157	26,459	3/2/2021	\$	22,000	Yes	Nashua	No	\$ 27.70	ş -	
Projected short term interest on FALOC	Interest incurred to finance 2022 Capex until permanent financing is achieved	N/A	DW20-157	26,459	3/2/2021	\$	166,700	Yes	N/A	No	N/A	ş -	
		Pennichuck Wa	ter Works Projected 2	022 Total Capital E	xpenditure Budget	- \$	12,158,200		Projected Prop	erty Tax Expens	e associated with	\$ 285,772	

less \$

\$ 11,991,500

Estimated Bond Terms (Bonds to be sold in April 2023) -	30	Years @	5.0% resulting in P&I of \$
Estimated SRF Terms -	20	Years @	3.38% resulting in P&I of \$

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

 Total for 0.1 DSRR 2022 Projects \$
 150,000

 Total Projected Bond funded PWW QCPAC Capex for 2022 \$
 11,628,200

 Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2022 \$
 320,000

756,431 22,272 778,703 3.38% resulting in P&I of \$ Total Projected P&I - \$

PWW 2022 QCPAC Filing Exhibit DLW-1 Page 5

60,000 for Milford Booster. Milford to pay the 1.1x P&I

			Financing Docket	NHPUC Order	Date of NHPUC	Approved	QCPAC		77		QCPAC Eligible Property Tax
Project Name/Description	Project Description	Work Order #	No.	No.	Order	Budgeted Amount	Eligible?	Community	Taxable	Tax Rate (1)	Expense
2023 New Services (10)	Single Family, Owner Build, New Homes		DW20-157	26,459	3/2/2021	\$ 50,000	Yes	Various	Yes	\$ 24.96	
2023 Renewed Services (20)	Replacement of Failed Services Replacement of non functional hydrants		DW20-157	26,459	3/2/2021	\$ 110,000	Yes	Various	Yes	\$ 24.96	
2023 Hydrants (10)	Replacement of hon functional hydrants		DW20-157	26,459	3/2/2021	\$ 60,000 \$ 80,000	Yes	Various	Yes	\$ 24.96	
2023 Gates (20) 2023 Radios (250)	New Radios for new customers (250)		DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 80,000 \$ 25,000	Yes	Various Various	Yes Yes	\$ 24.96 \$ 24.96	. ,
2023 Radios (250) 2023 Radios (2800)	Yr 3 of 10 Year Replacment of all PWW Radios installed in 2007 (2800) by contractor	-	DW20-157 DW20-157	26,459	3/2/2021	\$ 25,000	Yes Yes	Various	Yes	\$ 24.96	
2023 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers, including PFOA (250). Replacement of failed meters(250)		DW20-157	26,459	3/2/2021	\$ 50,000	Yes	Various	Yes	\$ 24.96	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles		DW20-157	26,459	3/2/2021	\$ 70,000	Yes	Merrimack	No	\$ 22.51	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles		DW20-157	26,459	3/2/2021	\$ 70,000	Yes	Merrimack	No	\$ 22.51	
Replacment 1/2 Ton Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup		DW20-157	26,459	3/2/2021	\$ 50,000	Yes	Merrimack	No	\$ 22.51	\$ -
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles		DW20-157	26,459	3/2/2021	\$ 40,000	Yes	Merrimack	No	\$ 22.51	
Protectus Meter Upgrade	Protectus Meter Upgrade		DW20-157	26,459	3/2/2021	\$ 22,000	Yes	Nashua	Yes	\$ 27.70	
Miscellaneous Construction Equipment	Miscellaneous Construction Equipment		DW20-157	26,459	3/2/2021	\$ 40,000	Yes	Merrimack	No	\$ 22.51	
Replacement Boom Crane Truck	New Boom Crane truck to Replace #19, 2011 Ford F-450, failing hydraulic Crane, body rot & 100K+ miles		DW20-157	26,459	3/2/2021	\$ 150,000	Yes	Merrimack	No	\$ 22.51	
Replacement Dump Truck	New Dump Truck to replace #10, 2008 Peterbilt 335, 100K+ miles, 9000hrs, body rot & high Maint & repair costs		DW20-157	26,459	3/2/2021	\$ 150,000	Yes	Merrimack	No	\$ 22.51	
Chataqua Ave	Broad St. to End Replace/Add 780 feet of 1.25"/4"/6" Installed in 1915-1963 with 4"/6" - Paving & Restoration		DW20-157	26,459	3/2/2021	\$ 106,480	Yes	Nashua	Yes	\$ 27.70	
Niquette Dr.	E. Dunstable to service 12 Niquette Replace/Add 525 feet of 2" installed in 1960 with 4" - Paving&Restoration		DW20-157	26,459	3/2/2021	\$ 72,540	Yes	Nashua	Yes	\$ 27.70	
Pine Hill Ave	Wright Rd. to End Replace/Add 300 feet of 1.25" installed in 1953 with 4" - Paving&Restoration Merrimack St. to Manchester St. Replace/Add 400 feet of 1.5" installed in 1955 with 8" - Paving&Restoration		DW20-157	26,459	3/2/2021	\$ 42,592 \$ 55,902	Yes	Nashua	Yes	\$ 27.70	
Mt. Pleasant St.	°		DW20-157	26,459	3/2/2021	. ,	Yes	Nashua	Yes	\$ 27.70	
French St. Dudley St.	Merrimack St. to 10 French Replace/Add 340 feet of 2"/6" installed in 1887 & 1926 with 4"/6" - Paving&Restoration June St. to E. Hobart St. Replace/Add 830 feet of 1.25"/8" Cl/AC installed in 1957-1971 with 8" - Paving&Restoration		DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 47,916 \$ 113,135	Yes	Nashua Nashua	Yes	\$ 27.70 \$ 27.70	
Ledgewood Hills Dr. /Heather	To Intersection Replace/Add 10 feet of Unconnected installed in with 8 - Paving&Restoration	-	DW20-157 DW20-157	26,459	3/2/2021	\$ 3,993	Yes	Nashua	Yes	\$ 27.70	
Rita St.	Allds St. to 6 Rita Replace/Add 210 feet of 1.5" CICL installed in 1956 with 4" - Paving&Restoration		DW20-157	26,459	3/2/2021	\$ 30,613	Yes	Nashua	Yes	\$ 27.70	
Salem St.	Whitney St. to Summer St. Replace/Add 855 feet of 4"/6" installed in 1888-1927 with 6" - Paving&Restoration		DW20-157	26,459	3/2/2021	\$ 116.463	Yes	Nashua	Yes	\$ 27.70	
Walnut St.	W. Pearl St. to W. Hollis St. Replace/Add 830 feet of 6"/8" installed in 1888-1931 with 12" - Paving&Restoration		DW20-157	26,459	3/2/2021	\$ 113,135	Yes	Nashua	Yes	\$ 27.70	
City Sewer Projects (2022)	Replace CI, AC, and other older main distrupted by sewer construction - Paving&Restoration		DW20-157	26,459	3/2/2021	\$ 100,000	Yes	Nashua	Yes	\$ 27.70	. ,
Coburn Tank Area HP Zone Watermain	Create new HP area with 1600 LF of Water Main and Check Valves		DW20-157	26,459	3/2/2021	\$ 200,000	Yes	Nashua	Yes	\$ 27.70	
Milford Booster Station	Replace/Relocate Milford Booster Station (Construction)		DW20-157	26,459	3/2/2021	\$ 850,000	Yes	Amherst	Yes	\$ 26.29	\$ 22,347
City Sewer Projects (2023)	Replace CI, AC, and other older main distrupted by sewer construction		DW20-157	26,459	3/2/2021	\$ 300,000	Yes	Nashua	Yes	\$ 27.70	\$ 8,310
Swan St.	Cote Ave to Easterly Replace/Add 156 feet of 2" installed in 1953		DW20-157	26,459	3/2/2021	\$ 49,000	Yes	Nashua	Yes	\$ 27.70	
Chapman St.	Cote Ave to End Replace/Add 156 feet of 1.25" installed in 1948 with 4"		DW20-157	26,459	3/2/2021	\$ 49,000	Yes	Nashua	Yes	\$ 27.70	
Savoy St.	Euclid Ave to existing 8" Replace/Add 142 feet of 1.25" installed in 1947 with 6"		DW20-157	26,459	3/2/2021	\$ 50,000	Yes	Nashua	Yes	\$ 27.70	
Palm St.	Lovewell St. to Southerly Replace/Add 420 feet of 4" installed in 1890 with 6"		DW20-157	26,459	3/2/2021	\$ 130,000	Yes	Nashua	Yes	\$ 27.70	
Almont St.	Forest Park Dr. to Fairlane Ave Replace/Add 370 feet of unknown installed in unknown with 8"		DW20-158	26,459	3/2/2021	\$ 120,000	Yes	Nashua	Yes	\$ 27.70	
D St.	E. Hollis St. to Bridge St. Replace/Add 500 feet of 4" installed in 1898 with 8"		DW20-157	26,459	3/2/2021	\$ 158,000	Yes	Nashua	Yes	\$ 27.70	
Union St. Cherry St.	Amory St. to Bridge St. Replace/Add 520 feet of 1.25"-4" installed in 1909-1978 with 12" McKean St. to Haines St. Replace/Add 340 feet of 4" installed in 1926 with 4" PVC		DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 210,000 \$ 97,000	Yes Yes	Nashua Nashua	Yes Yes	\$ 27.70 \$ 27.70	
Union St.	Amory St. to Bridge St. Replace/Add 520 feet of 1.25"-4" installed in 1920 with 4 PVC	-	DW20-157 DW20-157	26,459	3/2/2021	\$ 210,000	No	Nashua	Yes	\$ 27.70	
Cherry St.	McKean St. to Haines St. Replace/Add 340 feet of 4" installed in 1936 with 4" PVC		DW20-157	26,459	3/2/2021	\$ 97,000	Yes	Nashua	Yes	\$ 27.70	
Snow Station Transmission Main	Add Approximately 1,500LF of 24 inch Snow Station to end of 16 inch cross country		DW20-157	26,459	3/2/2021	\$ 850,000	Yes	Nashua	Yes	\$ 27.70	
Nashua Water Treatment Facility	New Chemicall Storage Building (Design & Permitting)			0.1 DSRR	-,-,-	\$ 300,000	No	Nashua	No	\$ 27.70	
Snow Station Building Addition	Addition of a third High Lift Pump (Construction)		DW20-157	26,459	3/2/2021	\$ 1,200,000	Yes	Nashua	Yes	\$ 27.70	\$ 33,240
Merrimack River Watershed Council	Grant Match with other Stakeholders \$40k for five years.			0.1 DSRR	•	\$ 40,000	No	Various	No	\$ 24.96	\$ -
Trimble GPS and Monitoring Equipment	Level Monitors, Pressure Monitors and Flow Monitors		DW20-157	26,459	3/2/2021	\$ 32,000	Yes	Various	No	\$ 24.96	
Investment in Developer Services	1x Annual Rvenue		DW20-157	26,459	3/2/2021	\$ 100,000	Yes	Various	Yes	\$ 24.96	. ,
Replace Engineering SUV	Replace vehicle with high mileage.		DW20-157	26,459	3/2/2021	\$ 30,000	Yes	Nashua	No	\$ 27.70	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	26,459	3/2/2021	\$ 45,000	Yes	Nashua	No	\$ 27.70	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW20-157	26,459	3/2/2021	\$ 40,000	Yes	Various	Yes	\$ 24.96	
Well Pump replacements Chemical Feed pump replacements	Well Pump replacements Chemical Feed pump replacements		DW20-157 DW20-157	26,459 26,459	3/2/2021	\$ 25,000 \$ 10,000	Yes	Various	Yes	\$ 24.96	
Replace Rotork Pakscan valve control system	Replace Rotork Pakscan valve control system		DW20-157 DW20-157	26,459	3/2/2021 3/2/2021	\$ 10,000	Yes Yes	Various Nashua	Yes Yes	\$ 24.96 \$ 27.70	
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS		DW20-157	26,459	3/2/2021	\$ 20,000	Yes	Various	Yes	\$ 24.96	
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	26,459		\$ 30,000	Yes	Various	Yes	\$ 24.96	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW20-157	26,459	3/2/2021	\$ 30,000	Yes	Various	Yes	\$ 24.96	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW20-157	26,459	3/2/2021	\$ 60,000	Yes	Various	Yes	\$ 24.96	
Well Rehabilitation	Well Rehabilitation		DW20-157	26,459	3/2/2021	\$ 50,000	Yes	Various	Yes	\$ 24.96	\$ 1,248
WTP Structural/HVAC	WTP Structural/HVAC		DW20-157	26,459	3/2/2021	\$ 20,000	Yes	Nashua	Yes	\$ 27.70	\$ 554
Purchase new lab equipment	Purchase new lab equipment		DW20-157	26,459	3/2/2021	\$ 20,000	Yes	Nashua	No	\$ 27.70	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW20-157	26,459	3/2/2021	\$ 10,000	Yes	Various	Yes	\$ 24.96	
Replace Vehicle	Replace Vehicle		DW20-157	26,459	3/2/2021	\$ 65,000	Yes	Nashua	No	\$ 27.70	
Replace Vehicle	Replace Vehicle		DW20-157	26,459	3/2/2021	\$ 40,000	Yes	Nashua	No	\$ 27.70	
Carbon Filter Media	Carbon Filter Media New Customer Appointment Scheduling Software(Click Replacement)		DW20-157	26,459	3/2/2021	\$ 500,000	Yes	Nashua	Yes	\$ 27.70	
New Customer Appointment Scheduling Software(Click Replacement) Runrate Business needs	Runrate Business needs		DW20-157 DW20-157	26,459 26,459	3/2/2021 3/2/2021	\$ 240,000 \$ 230,000	Yes	Nashua Nashua	No No	\$ 27.70 \$ 27.70	
Miscellaneous Software	Miscellaneous Software	+	DW20-157 DW20-157	26,459	3/2/2021	\$ 230,000 \$ 12,000	Yes Yes	Nashua	No	\$ 27.70	
			Dw20-15/	20,439	3/2/2021	ψ 12,000	1 65	INASHUA	INO	ə 27.70	<i></i>

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense
	Miscellaneous Hardware		DW20-157	26,459	3/2/2021	\$ 22,000	Yes	Nashua	No	\$ 27.70	\$ -
Projected short term interest on FALOC	Interest incurred to finance 2022 Capex until permanent financing is achieved	N/A	DW20-157	26,459	3/2/2021	\$ 159,200	Yes	N/A	No	N/A	\$ -
Pennichuck Water Works Projected 2023 Total Capital Expenditure Budget - \$ 9,233,968 Projected Property Tax Expense associated with \$ 207,236											

Total for 0.1 DSRR 2023 Projects - \$

Total Projected Bond funded PWW QCPAC Capex for 2023 - \$ Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2023 - \$

Estimated Bond Terms (Bonds to be sold in April 2024) -30 Years @ 5.0% resulting in P&I of \$

340,000

-

8,043,968 minus investment in Milford Booster Station of Milford to pay 1.1x P&I for booster station \$ 850,000

Project Name/Description	Project Description	Financing Work Order # No	g Docket	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense
2024 New Services (10)	Single Family, Owner Build, New Homes	DW20-)-157	26,459	3/2/2021	\$ 50,000	Yes	Various	Yes	\$ 24.96	\$ 1,248
2024 Renewed Services (20)	Replacement of Failed Services	DW20-)-157	26,459	3/2/2021	\$ 110,000	Yes	Various	Yes	\$ 24.96	\$ 2,746
2024 Hydrants (10)	Replacement of non functional hydrants	DW20-)-157	26,459	3/2/2021	\$ 60,000	Yes	Various	Yes	\$ 24.96	\$ 1,498
2024 Gates (20)	Replacement of Failed Gate Valves	DW20-)-157	26,459	3/2/2021	\$ 80,000	Yes	Various	Yes	\$ 24.96	\$ 1,997
2024 Radios (250)	New Radios for new customers (250)	DW20-)-157	26,459	3/2/2021	\$ 25,000	Yes	Various	Yes	\$ 24.96	\$ 624
2024 Radios (4000)	Yr 4 of 10 Year Replacment of all PWW Radios installed in 2007 (2800) by contractor	DW20-)-157	26,459	3/2/2021	\$ 364,000	Yes	Various	Yes	\$ 24.96	\$ 14,795
2024 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers, including PFOA (250). Replacement of failed meters(250)	DW20-)-157	26,459	3/2/2021	\$ 50,000	Yes	Various	Yes	\$ 24.96	\$ 1,248
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles	DW20-)-157	26,459	3/2/2021	\$ 70,000	Yes	Merrimack	No	\$ 22.51	\$ -
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles	DW20-)-157	26,459	3/2/2021	\$ 70,000	Yes	Merrimack	No	\$ 22.51	S -
Replacment 1/2 Ton Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup	DW20-)-157	26,459	3/2/2021	\$ 50,000	Yes	Merrimack	No	\$ 22.51	S -
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles	DW20-		26,459	3/2/2021	\$ 40,000	Yes	Merrimack	No	\$ 22.51	-
Protectus Meter Upgrade	Protectus Meter Upgrade	DW20-)-157	26,459	3/2/2021	\$ 22.000	Yes	Nashua	Yes	\$ 27.70	
Miscellaneous Construction Equipment	Miscellaneous Construction Equipment	DW20-		26,459	3/2/2021	\$ 40,000	Yes	Merrimack	No	\$ 22.51	1
Replacement Excavator	New Excavator to replace #330, 2015 Volvo EC-55C, 5000+ Hrs, Body Rot, High Maint & Repair Cost	DW20-		26,459	3/2/2021	\$ 150,000	Yes	Various	No	\$ 24.96	-
Coburn Woods (all side streets) Phase 2	Replace 4200 LF of 2 inch PVC with 4 inch DIPCL.	DW20-		26,459	3/2/2021	\$ 1,600,000	Yes	Nashua	Yes	\$ 27.70	
City Sewer Projects (2023)	Replace CI, AC, and other older main distrupted by sewer construction - Paving	DW20-		26,459	3/2/2021	\$ 100,000	Yes	Nashua	Yes	\$ 27.70	
Swan St.	Cote Ave to Easterly Replace/Add 156 feet of 2" installed in 1953 - Paving&Restration	DW20-		26,459	3/2/2021	\$ 23,430	Yes	Nashua	Yes	\$ 27.70	
Chapman St.	Cote Ave to End Replace/Add 156 feet of 1.25" installed in 1948 with 4"-Paving&Restoration	DW20-		26,459	3/2/2021	\$ 23,430	Yes	Nashua	Yes	\$ 27.70	
Savoy St.	Euclid Ave to existing 8" Replace/Add 142 feet of 1.25" installed in 1947 with 6" - Paving & Restoration	DW20-		26,459	3/2/2021	\$ 21,560	Yes	Nashua	Yes	\$ 27.70	
Palm St.	Lovewell St. to Southerly Replace/Add 420 feet of 4" installed in 1890 with 6" - Paving & Restoration	DW20-		26,459	3/2/2021	\$ 58,560	Yes	Nashua	Yes	\$ 27.70	
Almont St.	Forest Park Dr. to Fairlane Ave Replace/Add 370 feet of unknown installed in unknown with 8"-Paving&Restoration	DW20-		26,459	3/2/2021	\$ 51,910	Yes	Nashua	Yes	\$ 27.70	
D St.	E. Hollis St. to Bridge St. Replace/Add 500 feet of 4" installed in 1898 with 8"-Paving&Restoration	DW20-		26,459	3/2/2021	\$ 69,210	Yes	Nashua	Yes	\$ 27.70	- /
Union St.	Amory St. to Bridge St. Replace/Add 520 feet of 1.25"-4" installed in 1999-1978 with 12" - Paving&Restoration	DW20-		26,459	, ,	\$ 09,210 \$ 71,870		Nashua	Yes	\$ 27.70 \$ 27.70	· · ·
	Minory St. to Bloge St. Replace/Add 320 feet of 4" installed in 1909-1976 with 12 - Paving&Restoration				3/2/2021	\$ 71,870	Yes				
Cherry St.		DW20-		26,459	3/2/2021		Yes	Nashua	Yes	\$ 27.70	
Union St. Replace Small Dia Water Main (2024)	Amory St. to Bridge St. Replace/Add 520 feet of 1.25"-4" installed in 1909-1978 with 12"-Paving&Restoration	DW20-		26,459	3/2/2021	\$ 71,870 \$ 3.200.000	Yes	Nashua	Yes	\$ 27.70	· .
	Replace approx. 9,000 LF ofsmall diameter water main associated with the lead and copper rule and city paving	DW20-		26,459	3/2/2021	, .,	Yes	Nashua	Yes	\$ 27.70	
City Sewer Projects (2024)	Replace CI, AC, and other older main distrupted by sewer construction	DW20-		26,459	3/2/2021	\$ 600,000	Yes	Nashua	Yes	\$ 27.70	- /
Nashua Water Treatment Facility	New Chemicall Storage Building (Construction)	SRE	F		ust be filed	\$ 3,000,000	Yes	Nashua	Yes	\$ 27.70	. ,
Merrimack River Watershed Council	Grant Match with other Stakeholders \$40k for five years.			0.1 DSRR		\$ 40,000	No	Nashua	No	\$ 27.70	-
Trimble GPS and Monitoring Equipment	Level Monitors, Pressure Monitors and Flow Monitors	DW20-		26,459	3/2/2021	\$ 32,000	Yes	Nashua	Yes	\$ 27.70	1
Investment in Developer Services	1x Annual Rvenue	DW20-		26,459	3/2/2021	\$ 110,000	Yes	Nashua	Yes	\$ 27.70	-,
Replace Engineering Pickup	Replace vehicle with high mileage.	DW20-		26,459	3/2/2021	\$ 45,000	Yes	Various	No	\$ 24.96	-
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	DW20-		26,459	3/2/2021	\$ 40,000	Yes	Merrimack	Yes	\$ 22.51	
Well Pump replacements	Well Pump replacements	DW20-		26,459	3/2/2021	\$ 15,000	Yes	Various	Yes	\$ 24.96	
Chemical Feed pump replacements	Chemical Feed pump replacements	DW20-		26,459	3/2/2021	\$ 15,000	Yes	Various	Yes	\$ 24.96	
rebuild High lift pump, WTP	rebuild High lift pump, WTP	DW20-		26,459	3/2/2021	\$ 100,000	Yes	Various	Yes	\$ 24.96	
Install/replace treatment systems in small CWS	Install/replace treatment systems in small CWS	DW20-		26,459	3/2/2021	\$ 15,000	Yes	Various	Yes	\$ 24.96	-
Misc. Structural Improvements	Misc. Structural Improvements	DW20-		26,459	3/2/2021	\$ 20,000	Yes	Various	Yes	\$ 24.96	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	DW20-		26,459	3/2/2021	\$ 30,000	Yes	Various	Yes	\$ 24.96	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	DW20-		26,459	3/2/2021	\$ 60,000	Yes	Nashua	Yes	\$ 27.70	
Well Rehabilitation	Well Rehabilitation	DW20-	0-157	26,459	3/2/2021	\$ 50,000	Yes	Various	Yes	\$ 24.96	· · · ·
WTP Structural/HVAC	WTP Structural/HVAC	DW20-)-157	26,459	3/2/2021	\$ 30,000	Yes	Various	Yes	\$ 24.96	\$ 749
Purchase new lab equipment	Purchase new lab equipment	DW20-)-157	26,459	3/2/2021	\$ 20,000	Yes	Various	No	\$ 24.96	\$ -
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	DW20-)-157	26,459	3/2/2021	\$ 10,000	Yes	Various	Yes	\$ 24.96	\$ 25 0
Replace Vehicle	Replace Vehicle	DW20-)-157	26,459	3/2/2021	\$ 65,000	Yes	Various	No	\$ 24.96	\$ -
Replace Vehicle	Replace Vehicle	DW20-)-157	26,459	3/2/2021	\$ 40,000	Yes	Nasnua	No	\$ 27.70	Ş -
Runrate Business needs	Runrate Business needs	DW20-)-157	26,459	3/2/2021	\$ 400,000	Yes	Nashua	No	\$ 27.70	
Miscellaneous Software	Miscellaneous Software	DW20-		26,459	3/2/2021	\$ 12,000	Yes	Various	No	\$ 24.96	\$ -
Miscellaneous Hardware	Miscellaneous Hardware	DW20-		26,459	3/2/2021	\$ 22,000	Yes	Nashua	No	\$ 27.70	
Projected short term interest on FALOC	Interest incurred to finance 2022 Capex until permanent financing is achieved	N/A DW20-)-157	26,459	3/2/2021	\$ 159,190	Yes	N/A	No	W/A	<u>s</u> -
		Pennichuck Water Works Pro				\$ 11,450,950		Projected Prop	erty Tax Expens	e associated with	\$ 257,112

Total for 0.1 DSRR 2024 Projects - \$

 Total Projected Bond funded PWW QCPAC Capex for 2024 \$

 Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2024 \$

Estimated Bond Terms (Bonds to be sold in April 2025) -Estimated SRF Terms -5.0% resulting in P&I of \$ 3.38% resulting in P&I of \$ 30 Years @ 20 Years @

Total Projected P&I - \$

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

40,000 8,410,950 3,000,000

> 547,144 208,798

755,942



2022 PWW QCPAC Petition Attachment A - Dec. 2021 Customer Bill Notification Page 1 of 1 25 Walnut Street PO Box 428 Nashua, NH 03061-0428

(800) 553-5191 Fax (603) 913-2362 customer-service@pennichuck.com

Pennichuck Water Works Qualified Capital Project Adjustment Charge (QCPAC) Customer Notice for February 2022 filing at the New Hampshire Public Utilities Commission

Pennichuck Water Works, Inc.'s ("Pennichuck") primary goal is to provide exceptional service and delivery of quality water 24 hours a day, 365 days a year. We regularly evaluate the infrastructure of our systems to identify areas that require improvement. Pennichuck was granted approval by the New Hampshire Public Utilities Commission (PUC) in DW16-806 (Order #26,070) to implement a Qualified Capital Project Adjustment Charge (QCPAC). The QCPAC allows Pennichuck to bill a monthly surcharge based on a percentage of your monthly bill. The surcharge is directly linked to and based upon the costs of Pennichuck's ongoing investment in Qualified Capital Projects (QCPs) necessary to provide service to its customers, in compliance with State and Federal regulations, and to maintain its overall water supply and treatment infrastructure in a proactive and responsive manner.

The QCPAC surcharge allows Pennichuck to recover 1.10 times the annual principal and interest for the debt funds raised each year to pay for Pennichuck's QCP expenditures made on plant and equipment placed into service during the prior year, plus the incremental property taxes associated with the value of those QCPs. As a part of this annual process, Pennichuck's QCP expenditures are audited by the PUC for prudency and confirmation of actual expenditure levels.

Our customers benefit from the QCPAC program as it provides the necessary funding for Pennichuck to maintain a consistent plan for the replacement of aging infrastructure, increasing the reliability and quality of service provided to customers. The QCPAC program also results in smaller annual rate changes for customers by permitting Pennichuck to recover the costs associated with debt financing the replacement of aging infrastructure between rate cases, as well as the ability to continue to access lowest cost debt funding for these projects, based upon this QCPAC program.

As part of the ongoing annual QCPAC process, Pennichuck will be filing a proposed three-year capital expenditure plan for 2022-2024 QCPs with the PUC on or before February 15, 2022. The proposed 2022-2024 QCPs submitted will update Pennichuck's 2021 through 2023 proposed QCP expenditures plan, which was placed on file with the PUC in February of 2021, in conjunction with its DW 21-023 QCPAC filing. As part of the impending February 2022 QCPAC filing, Pennichuck will be requesting the PUC to allow it to increase the QCPAC surcharge from the 5.46% requested in DW 21-023 (3.94% associated with 2019 QCP expenditures and 1.50% associated with 2020 QCP expenditures) to an overall surcharge value of 8.43%. The referenced 3.94% and the 1.50% QCPAC surcharges are still awaiting approval in dockets DW 20-020 and DW21-023. It is expected that the QCPAC surcharge sought in those dockets will be approved by the PUC in the spring of 2022 and go into effect in the April 2022 timeframe, and the first bills reflecting the 3.94% and 1.50% QCPAC surcharges are expected to be issued in April of 2022. The February 2022 filing described in this notice is requesting an additional 2.80% increase in rates, over and above the 5.44%, to fund the QCPs placed in service during 2021. The proposed QCPAC surcharge will apply to meter classes and charges for service rendered after April 2, 2022 and will most likely go into effect in the fall of 2022.

The requested QCPAC surcharge for 2021 QCPs, if approved, would result in a cumulative QCPAC surcharge of about \$4.58 per month on the average single-family residential bill of \$55.65, which would result in a total average single family residential monthly bill of \$60.24. The cumulative QCPAC surcharge consist of the \$2.19 surcharge proposed for the 2019 QCPs, the \$0.83 surcharge for the 2020 QCP's and an additional surcharge of \$1.56 per month for the 2021 QCPs.

If you have any questions or concerns related to Pennichuck's February 2021 QCPAC filing, please contact Pennichuck Customer Service at 800-553-5191 or the New Hampshire Public Utilities Commission at 800-852-3793.

Attachment B - PWW Draft QCPAC Tariff Language

NHPUC NO. 6 Water PENNICHUCK WATER WORKS, INC. Third Revised Page 52 Superseding Second Revised Page 52

QUALIFIED CAPITAL PROJECT ADJUSTMENT CHARGE

In addition to the net charges provided for in this Tariff, a Qualified Capital Project Adjustment Charge ("QCPAC") surcharge of 7.21% will apply on a service rendered basis to all bills issued after April 26, 2022.

I. General Description

Purpose: To recover the fixed costs (1.1 times principal and interest plus property taxes) of Commission-approved capital expenditures needed to operate maintain, insure regulatory compliance and to replace aging infrastructure which were completed and placed in service and to be recorded in the individual accounts, as noted below, between base rate cases. In addition, QCPAC provides the Company with the resources to complete essential asset replacement for infrastructure for the purpose of improving or protecting water quality and the reliability of service and to comply with evolving regulatory requirements imposed by the Safe Drinking Water Act.

QCPAC Eligible Property will encompass all Assets acquired by the Company as part of its annual capital improvements plan. Any regulatory asset that is recovered through an amortization expense is not eligible for QCPAC treatment.

Computation of the QCPAC

The charge will be effective on a service rendered basis for all bills issued after April 26, 2022 and will be calculated to recover the fixed costs of eligible plant additions not previously reflected in the Company's rate base and placed in service between January 1, 2019 and December 31, 2021. Thereafter, the QCPAC will be updated on an annual basis to reflect eligible plant additions placed in service during the prior calendar year. Thus, changes in the QCPAC surcharge percentage will occur as follows:

Effective Date	Date To Which QCPAC Eligible
of QCPAC Change	Plant Additions Reflected
April 26, 2022	December 31, 2021

The QCPAC will be applied on a service rendered basis to all bills rendered after April 26, 2022. The QCPAC will be applied uniformly to all customer classes and charges with the exception that the QCPAC will not be applied against the monthly fixed contract charges associated with Anheuser-Busch, Town of Milford, Pennichuck East Utility and Town of Hudson special contracts.

Issued:	Issued by	Issued by:					
Effective:	Name:	Donald L. Ware					
	Title:	Chief Operating Officer					

Authorized by NHPUC Oder No. xx,xxx in Docket No. DW 22-xxx dated October xx, 2022

NHPUC NO. 6 Water PENNICHUCK WATER WORKS, INC.

Third Revised Page 53 Superseding Second Revised Page 53

The fixed costs of eligible infrastructure system improvement projects will consist of principal and interest payments and property taxes calculated as follows:

Principal and Interest: The principal and interest expense will be based on the annual principal and interest associated with the Bonds sold on April 26, 2022 to pay for the QCPAC qualified projects that were completed and used and useful by December 31, 2021 in addition to the principal and interest associated with NHDES SRF and DWGTF loans. The Debt Instruments Principal and interest of the Bond will be multiplied by 1.1 to determine this portion of the QCPAC surcharge. The debt service revenues collected via the QCPAC surcharge shall be divided into two revenue streams with the revenues associated with 1.0 times the QCPAC principal and interest being part of the Company's Debt Service Revenue Requirement ("DSRR") and the revenues associated with 0.1 times the QCPAC principal and interest being part of the Company's 0.1 Debt Service Revenue Requirement ("0.1 DSRR").

Property Taxes: Incremental property taxes associated with the specific capital projects, as determined in the year of the granting of the QCPAC for such projects. The property tax expense will reflect an estimate of the tax expense for such projects based on the tax rate then in effect at the end of the year the QCP was used and useful times the final audited cost of the eligible QCP's.

QCPAC Surcharge Amount: The charge will be expressed as a percentage carried to two decimal places and will be applied to the effective portion of the total amount billed to each customer under the Company's otherwise applicable rates and charges.

The QCPAC Surcharge Amount approved by the Commission will be recouped back to the effective date of this tariff. The recoupment will be calculated based on actual charges incurred between the effective date of this tariff and the issued date of this tariff and shall be collected as a lump sum on the first bill rendered after the issuance date of this tariff.

Issued:	Issued by:					
Effective:	Name:	Donald L. Ware				
	Title:	Chief Operating Officer				

Authorized by NHPUC Oder No. xx,xxx in Docket No. DW 22-xxx dated October xx, 2022

NHPUC NO. 6 Water PENNICHUCK WATER WORKS, INC.

Third Revised Page 54 Superseding Second Revised Page 54

Formula[:] The formula for calculation of the QCPAC surcharge is as follows:

$$QCPAC = \frac{1.1 \text{ x } (AP + AI) + PT}{BRWR}$$

Where:

- AP = the annual principal payments associated with the debt instruments issued to fund QCPAC eligible projects that were used and useful before the end of the preceding year.
- AI = the annual interest payments associated with the debt instruments issued to fund QCPAC eligible projects that were used and useful before the end of the preceding year the pre-tax return rate applicable to eligible infrastructure system improvement projects.
- PT = annual property taxes related to eligible infrastructure system improvement projects.
- BRWR= base retail water revenues as approved by the Commission in the Company's last rate proceeding, DW 19-084, or a subsequent docket.

Annual updates: Supporting data for each annual update will be filed with the Commission and the Office of Consumer Advocate no later than the end of the February 15th of each year.

Audits: The QCPAC will be subject to audit prior to the determination by the Commission.

New Base Rates: The QCPAC charge will be reset at zero as of the effective date of new base rates that provide for prospective recovery of the annual costs that had theretofore been recovered under the QCPAC. Thereafter, only the fixed costs of new eligible plant additions that have not previously been reflected in the Company's rate base would be reflected in the annual updates of the QCPAC.

Issued:	Issued by	Issued by:				
Effective:	Name:	Donald L. Ware				
	Title:	Chief Operating Officer				

Authorized by NHPUC Oder No. xx,xxx in Docket No. DW 22-xxx dated October xx, 2022

NHPUC NO. 6 Water PENNICHUCK WATER WORKS, INC. Third Revised Page 55 Superseding Second Revised Page 55

Customer Notice: At least thirty (30) days in advance of a QCPAC filing, the Company will notify Customers of the filing by including an explanatory bill insert with the bills. Before sending, the Company will review the notice with the Commission's Consumer Services and External Affairs division. Customers shall also be notified of changes in the QCPAC by including appropriate information with the first bill they receive following any change.

Notice of Project Substitution: If, after the Company has received Commission approval for Year 1 QCPAC projects, because of changed circumstances or significant new information the Company plans to undertake projects in Year 1 that were not included on the list of approved QCPAC projects for that year or it has decided not to proceed with one or more projects that were included on the Commission-approved list, it shall notify the Commission and all parties to the proceeding in which the list of QCPAC projects was approved that the Company plans to add to or delete projects and the reason for the proposed changes, in accordance with the following schedule. The Company will submit updates for approved QCPAC projects for that year, based upon information known on a year-to-date basis, from the beginning of the year through the following effective dates, on the associated reporting dates:

Effective Date

Reporting Date

September 30 November 30 November 15 January 15

Issued:	
Effective:	

Issued by:

Name:Donald L. WareTitle:Chief Operating Officer

2022 PWW QCPAC Petition Attachment C - PWW Website Screenshot Posting Notice Page 1 of 1

Pennichuck – Pennichuck

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Customer Service (800) 553-5191

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<u>Pennichuck Water Works Qualified Capital Project</u> <u>Adjustment Charge</u>

November 17, 2021 Update – As part of the ongoing annual QCPAC process, Pennichuck will be filing a proposed three-year capital expenditure plan for 2022-2024 QCPs with the PUC on or before February 15, 2022. For more information, see <u>QCPAC Customer Notice here(PDF)</u>.

June 3, 2021 Update – Supplemental Order of Notice – Petition for Approval of Proposed Qualified Capital Project Annual Adjustment Charge – Prehearing Conference to be held via webenabled remote session on July 14, 2021 at 3:00 pm. For more information see <u>Order of Notice</u> <u>here(PDF)</u>.

June 30, 2021 Update – On June 3, 2021, the Commission issued a Supplemental Order of Notice scheduling a web-enabled remote prehearing conference on July 14, regarding Pennichuck Water Works, Inc.'s petition for approval of a 2021 Qualified Capital Project Annual Adjustment Charge (QCPAC), that if approved, would be included in PEU customer bills. <u>This supplemental order of notice(PDF)</u> updates the previous notice due to the expiration of the declared State of Emergency on June 11, 2021.



PENNICHUCK CORPORATION

CORPORATE SECRETARY'S CERTIFICATE

I, Suzanne L. Ansara, do hereby certify that I am the duly elected Corporate Secretary of Pennichuck Corporation (the "Corporation"), a New Hampshire corporation, and that I am authorized to execute and deliver this Certificate on behalf of the Corporation. In that capacity, I do hereby further certify that:

- 1. The following resolution was adopted by the Board of Directors of the Corporation on January 28, 2022; and such resolution has not been altered, amended or repealed, and is in full force and effect, as of the date hereof:
 - Resolved: that the 2022 Capital Expenditure Budget and 2023/2024 Capital Expenditure Plans, as presented at this meeting, are hereby approved.
- 2. Attachment A to this Corporate Secretary's Certificate is a true copy of the Pennichuck Water Works, Inc. 2022 Capital Expenditure Budget and 2023/2024 Capital Expenditure Plans presented to the Board of Directors of the Corporation on January 28, 2022 and approved by said Board.

In Witness Whereof, I have hereunto set my hand this 2nd day of February, 2022.

Suzanne L. Ansara Corporate Secretary

Attachment A

Pennichuck Water Works 2022 Capital Expenditure Budget, including 2023 and 2024 Plans (In thousands)

		udgeted for 2021	Total Budgeted in 2022 for Carryover/Multi- year Projects	Total Budgeted in 2022 for New Projects	Total Budgeted for 2022	Total Planned in 2023 for Carryover & New Projects	Total Planned in 2024 for Carryover & New Projects
Mains and Main Replacements	\$	2,851	\$ 673		\$ 3,391	\$ 2,273	\$ 4,340
Booster Stations, Tanks, Generators and Pumps		40					
Water Treatment Media and Miscellaneous Water Supply Upgrade	S	-	나라는 사람이 있는 것이 같다. 특히 가지 않는 것이 같이		- K- 	1000 - 1000 - 1000 - 1000 1000 - 1000 - 1000	
Service, Hydrants and Meters		765	-	680	680	-739	739
IT, Applications and System Monitoring		720	87	436	523	504	434
All Other		1,924	14	1,914	1,928	1,259	1,179
Subtotals		6,300	774	5,748	6,522	4,775	6,692
Bowers Pond Spillway Reconstruction		•		1,850	1,850		•
Coburn Woods Mains		a star se	300	-	300	200	1,600
Coburn Woods Booster Station		-		1,350	1,350	•	
Milford Booster Station Rebuild		-		60	60	850	•
Kessler Farm Tank Replacement		4,000	300		300		
Supply Pond Spillway		750		- -	-	1	
WTP - Carbon Media Filter Bed Replacement		-	1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 -	1,300	1,300	500	•
WTP Chemical Storage Bldg.		-	-	-		300	3,000
Harris Dam		965	-	1	•	•	•
Rotork Pakscan Valve Control		-	-	-	1	400	
Snow Station Addition			-	-	-	1,200	
Snow Station Main		-	-	-	•	850	
English Woods Interconnect		-	-	310) 310	-	-
Capitalized Interest (FALOC)					155	147	114
Total Capex Budgeted 2022-2024	\$	12,015	\$ 1,374	\$ 10,618	3 \$ 12,147	\$ 9,222	\$ 11,406
Total Capex Budgeted 2022 - 2024 approved 12/17/21	\$	12,015	\$ 1,364	\$ 10,61 8	3 \$ 12,137	\$ 9,222	\$ 11,406
Variances	\$	0	\$ 10)\$-	\$ 10	<u>\$</u> 0	<u>\$ (0)</u>

Amount
155.00 FALOC Interest
- DWGTF 210.00 DSRR 0.1
320.00 SRF
12.147.00

PWW 2022 QCPAC Petition Page 046



2022 PWW QCPAC Petition Attachment D - Penn Corp. Sec. Cert. 2022-2024 CapEx Page 2 of 2 ග

2022 PWW QCPAC Petition Attachment E - PWW Responses to DOE DR Set 3 - DW 21-023 Page 1 of 4

Pennichuck Water Works, Inc. DW 21-023 2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 3

Date Request Received: 11/29/21 Request No. DOE 3-1 Date of Response: 12/2/21 Witness: Donald L. Ware

REQUEST:

Re: Company's 9/30/2021 Update, Exhibit DLW-1, Page 4 (2021 CapEx), Lines 38, 74, 75, and 102: Please provide detailed explanations for the indicated increases in project costs between 6/30/2021 (Column I) and 9/30/2021 (Column J) for the following:

		6/30)/2021	9/	/30/2021	Ir	ncrease
a)	Line 38: Kessler Farm Tank Replacement	\$4,00	00,000	\$4	,344,000	\$	344,000
b)	Line 74: Supply Pond Spillway Improve's	\$	0	\$	52,820	\$	52,820
c)	Line 75: Harris Dam raise earthen emb'mnt	\$	0	\$	42,000	\$	42,000
d)	Line 102: Bowers Dam 2021 Perm / Design	\$	0	\$	154,000	\$	154,000

RESPONSE:

a) The original project budget going into 2020 was \$3,388,000 including approximately 10% for internal project management and engineering plus a modest construction contingency. The actual bids from contractors resulted in a low bid of \$3,761,787 whereby the project budget for 2021 was adjusted to \$4,000,000 which included approximately 6% in internal project management and engineering.

Draining of the tank prior to demolition required the removal and disposal of bottom sediments at a cost of approximately \$20,000. The test shutdown of the tank revealed the need for a temporary standby generator at the Company's Snow Station, in order to ensure flow to the Northwest System during an extended power outage, as the other tank in the system is not large enough to support flow and pressure during a power outage. The temporary standby emergency generator added \$60,000 in electrical costs to the project budget. The project also included a significant amount of ledge removal. Condominium units are near the work and there were concerns expressed regarding possible damage due to vibration. A consultant was called in to monitor and assess vibration levels to ensure that the contractor maintained them to levels below which would not cause damage. This consultant added \$21,000 to the project budget.

The project budget increase of also \$344,000 includes two contractor change orders issued. One for the removal of an existing 8-inch diameter water main that ran into the required excavation area for the new tank, installation of temporary water main to feed existing customers and to support fire flows, as well as subsequent replacement of the permanent water main at an approximate cost of \$54,000. The second contractor change order was for the additional excavation to remove a deeper/taller than expected reinforced concrete foundation and footing at an additional cost of approximately \$18,400.

The added costs described in the above two paragraphs total approximately \$173,400 which results in a difference of \$170,600 (\$344,000-\$173,400) less than the current budget estimate of \$4,344,000; however, this does not consider costs associated with three months of construction remaining.

b) The Supply Pond Spillway improvement had an initial 2021 Board approved budget of \$750,000. As described in previous data responses (DOE Tech Session 2-3, 2-4, DOE DR 1-9, DR 2-8) in this docket, this project was deleted in favor of the rebuilding of the Bowers Pond Spillway based on the Company's consultant's recommendations. The decision to delete this project in favor of the Bower Pond Spillway had been made by the June 30, 2021 updates, but the costs of the preliminary engineering associated with this decision relative to the Supply Pond Dam Spillway had not yet been made so \$0 was carried in the 6/30/21 update. Between the 6/30/21 update and the 9/30/21 update, the consultant costs of \$52,840 associated with the evaluation of the Supply Pond Dam Spillway were assigned to this project work order number.

c) The Harris Pond Dam improvements had an initial 2021 Board approved budget of \$965,000. As described in previous data responses (see above) in this docket, this project was deleted in favor of the rebuilding of the Bowers Pond Spillway based on the Company's consultant's recommendations. The decision to delete this project in favor of the Bower Pond Spillway had been made by the June 30, 2021 updates, but the costs of the preliminary engineering associated with this decision relative to the Harris Pond Dam improvements had not yet been made so \$0 was carried in the 6/30/21 update. Between the 6/30/21 update and the 9/30/21 update, the consultant costs of \$42,000 associated with the evaluation of the Harris Pond Dam improvements were assigned to this project work order number.

d) The Bowers Pond Dam Permitting and Design had \$0 allocated in the initial 2021 Board based on the initial consultant recommendation that no work would be required on this dam based on the recommended improvements to the Harris and Supply Pond Dams. As described in previous data responses (see above) in this docket, this project became the most cost effective way to comply with the NHDES Dam Letter of Deficiencies; therefore, it was added when the Harris and Supply Pond dam projects were deleted in favor of the rebuilding of the Bowers Pond Spillway. This decision was based on the Company's consultant's recommendations. The decision to add this project in lieu of the Harris and Supply Pond upgrades had been made by the June 30, 2021 updates, but the cost of the Permitting and Design engineering associated with this decision had not yet been determined as of the 6/30/21 update. Between the 6/30/21 update and the 9/30/21 update, the projected consultant permitting and design costs of \$154,000 associated with Bowers Pond Dam improvements were assigned to this project work order number.

2022 PWW QCPAC Petition Attachment E - PWW Responses to DOE DR Set 3 - DW 21-023 Page 3 of 4

Pennichuck Water Works, Inc. DW 21-023 2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 3

Date Request Received: 11/29/21 Request No. DOE 3-2 Date of Response: 12/2/21 Witness: John J. Boisvert

REQUEST:

Re: Company's 9/30/2021 Update, Exhibit DLW-1, Page 4 (2021 CapEx), Line 39, Coburn Woods:

Please provide further explanation of the comment in the final column (Explanation) indicating "Project scope reduced to 5 of the 28 side roads do to excavation difficulties", including what difficulties were encountered and whether there are any plans to address the remaining streets in the future.

RESPONSE:

Coburn Woods is a private condominium complex. The land and roadways within Coburn Woods are owned by the owner's association. When the Company acquired the system very little was known about the water distribution system and the only plan for it was what could be called a sketch drawing at best. The exact location of the existing water mains and services (except for where services enter each condominium unit) was unknown. There were very few distribution valves, there were no as-built information regarding the locations of private sewers, buried electric power, telecommunications, and cable (all are direct buried cable not in conduit) utilities. Beginning at the start of construction, the contractor began to damage buried utilities that were unmarked/located, mismarked/located, or simply could not be located specifically in the case where sewer manholes were paved over. There was no logical means to identify where sewer service laterals ran between the condominium units and the main sewer lines. These difficulties caused construction delays and resulted in legitimate claims by the contractor for changed conditions. Rather than proceed in the current manner, it was decided to reduce the contract scope and to reassess the overall project scope over the next year based on the conditions that were encountered. After that assessment the plan is to reissue a project with a scope and information more reflective of the conditions at Coburn Woods, based on what was learned during the initial construction phase. The overall project will be completed but in more, smaller project phases that can be adapted to the specific on-site below ground conditions, as best as they can be understood.

2022 PWW QCPAC Petition Attachment E - PWW Responses to DOE DR Set 3 - DW 21-023 Page 4 of 4

Pennichuck Water Works, Inc. DW 21-023 2021 QCPAC - Qualified Capital Project Adjustment Charge Responses to DOE Data Requests –Set 3

Date Request Received: 11/29/21 Request No. DOE 3-3 Date of Response: 12/2/21 Witness: John J. Boisvert

REQUEST:

Re: Company's 9/30/2021 Update, Exhibit DLW-1, Page 4 (2021 CapEx), Lines 48, 50, 51, and 52:

The four referenced main replacements (Miami Street, Kendrick Street, Faxon Avenue, and Faxon Street) contain a note in the final column (Explanation) indicating "Materials not available in 2021 - design only". Please indicate generally what materials were unavailable, why they were unavailable, and whether the unavailability may impact future main replacements.

RESPONSE:

Specifically, 8-inch diameter ductile iron pipe and certain fittings had longer than normal delivery lead times of 12 to 14 weeks, as opposed to 2 to 4 weeks thus they were unavailable in what were historic timeframes for delivery. The delivery of the 8-inch pipes and fittings would have been received by the contractor in the middle of the winter. The construction work was therefore pushed to late winter or early spring of 2022 for construction start.

A busier than normal construction season, Covid-19 interruptions at manufacturing facilities, and transportation delays were cited as the reasons for the long lead times for delivery. Though speculative, we anticipate materials to be available going forward just with extended delivery schedules. We offer this opinion based on informal discussions with material suppliers and construction contractors. This could lengthen construction schedules from contract execution to project completion. Work will still be completed, but it may just take longer.