Pennichuck Water Works, Inc.
DW 21-023
Computation of QCPAC Surcharge
2/11/2021
6/30/2021 Update

	Approved DW19-084 Revenues per Order#		QCPAC For 2019 Capital Additions	QCPAC Surcharge for 2019 Capital Additions	QCPAC For 2020 Capital Additions pro forma		QCPAC Surcharge for 2020 Capital Additions	QCPAC For 2021 Capital Additions pro forma		QCPAC Surcharge for 2021 Capital Additions	QCPAC For 2022 Capital Additions pro forma		QCPAC Surcharge for 2022 Capital Addition	QCPAC For 2023 Capital Additions pro forma	QCPAC Surcharge for 2023 Capital Additions
City Bond Fixed Revenue Requirement (CBFRR)	$ 7,729,032		$ -	$ 7,729,032	$ -		$ 7,729,032	$ -		$ 7,729,032	$ -		$ 7,729,032		$ 7,729,032
DW19-084 Operating Expense Revenue Requirement	$ 21,296,618	(1)	$ 416,593	$ 21,713,211	$ 157,103	(4)	$ 21,870,314	$ 270,803	(4)	$ 22,141,116	(4) $ 253,910		$ 22,395,026	$ 251,929	$ 22,646,955
DW19-084 Annual Principal and Interest Payments	$ 6,176,477	(2)	$ 867,226	$ 7,043,703	$ 331,380	(5)	$ 7,375,082	$ 639,249		$ 8,014,332	$ 644,031		$ 8,658,362	$ 568,586	$ 9,226,948
Principal and Interest Coverage Requirement	1.10	(3)		1.10			1.10			1.10			1.10		1.10
DW19-084 Principal and Interest Revenue Requirement	$ 6,794,124			$ 7,748,073			$ 8,112,591			$ 8,815,765			$ 9,524,199		$ 10,149,643
DW19-084 Revenue Requirement	$ 35,819,774			$ 37,190,316			$ 37,711,936			$ 38,685,913			$ 39,648,257		$ 40,525,629
DW19-084 Revenue Requirement less Other Revenues	$ 35,399,062	(12)		$ 36,769,604			$ 37,291,224			$ 38,265,201			$ 39,227,544		$ 40,104,917
DW19-084 Revenue Requirement less Other Revenues less Fixed Special Contract Revenues	$ 34,792,618	(8)		$ 36,163,160			$ 36,684,780	(8)		$ 37,658,757	(8)		$ 38,621,101		$ 39,498,474
Percent QCPAC Surcharge (9)				3.94%			1.50%			2.80%			2.77%		2.52%
Cumulative QCPAC Surcharge (13)				3.94%			5.44%			8.24%			11.00%		13.53%
Cumulative QCPAC monthly increase in average single family residential bill.				$ 2.19			$ 3.03			$ 4.58			$ 6.12		$ 7.94
Average monthly single family residential bill with QCPAC.	$ 55.65			$ 57.85			$ 58.68			$ 60.24			$ 61.78		$ 63.59

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.
(2) Annual Principal and interest payments for PWW debt associated with all plant in service as approved in DW19-084.
(3) Principal and interest coverage of 1.10 is as approved in DW16-806.
(4) QCPAC operating expenses are based on the property taxes for used and useful plant added during the year
(5) Portion of Annual Principal and interest payments for debt associated with plant placed in service between 1/1/2020 and 12/31/2020 based on a 30 year bond with a projected interest rate of 3.50% based on a bond issuance in April 2021
(6) QCPAC Principal and Interest expenses are based on 30 4.00% for 2021 through 2023 Capital Expenditures unless funding is via an SRF/DWGTF financing.
(7) QCPAC percent revenue surcharges based on increase in revenues from the revenues granted in DW19-084
(8) Reduction in revenues associated with fixed contracts as follows: Hudson Annual Fixed Chg $ 32,800 Milford Annual Fixed Chg $ 81,000 A-B Annual Fixed Chg $ 371,430 PEU Annual Fixed Chg $ 121,213
(9) QCPAC Principal and Interest expenses for DWGTF financing are based on a 30 year bond with interest rate of 3.38%
(11) Cumulative surcharge percentage is based on total surcharge revenues collected divided by the revenues granted in DW19-084 that are impacted by the QCPAC.
(12) Operating expense revenues approved in DW19-084 less total Other Revenues of $ 420,712
(13) QCPAC percent revenue surcharges based on revenues approved in DW19-084.

Impact on Single Family Residential Home:	DW19-084
Monthly meter charge approved in DW19-084 -	$ 24.34
Average Single Family Consumption per DW19-084 (CCF) -	7.77
Volumetric Charge approved in DW#19-084 -	$ 4.03
Ave. Single Family monthly bill with rates approved in DW19-084 -	$ 55.65

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Board Approved 2019 Capex Budget	Board Approved 2019 Capex Budget, Revised 8/24/19	Eligible for 2020 QCPAC Surcharge	Final QCPAC eligible Project Costs as of 12/31/2019	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense (Based on Qrtly Update)	Explanation for Change/Addition/Deletion since Petition Filing
New Services (10)	Single Family, Owner Build, New Homes	20 workorders	DW17-183	26,101	2/2/2018	$ 46,000	$ 46,000	Yes	$ 69,936	Various	Yes	$ 27.02	$ 1,890	12 installed through 12/31.
Renewed Services (20)	Replacement of failed services	21, 22 & 23 workorders	DW17-183	26,101	2/2/2018	$ 92,000	$ 92,000	Yes	$ 101,648	Various	Yes	$ 27.02	$ 2,747	29 installed through 12/31.
Hydrants (10)	Replacement of non-functional hydrants	30 & 31 workorders	DW17-183	26,101	2/2/2018	$ 50,000	$ 50,000	Yes	$ 40,209	Various	Yes	$ 27.02	$ 1,086	7 installed through 12/31.
Gates (10)	Replacement of Failed Gate Valves	12 & 13 workorders	DW17-183	26,101	2/2/2018	$ 40,000	$ 40,000	Yes	$ 10,573	Various	Yes	$ 27.02	$ 286	4 installed through 12/31.
Radios (2750)	Replace out of warrantee failed radio meter readers.	54 workorders	DW17-183	26,101	2/2/2018	$ 275,000	$ 30,000	Yes	$ 48,942	Various	Yes	$ 27.02	$ 1,322	Deferred Radio Replacement program (Radios are 12 years old). 495 replaced through 12/31.
Meters (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	$ 48,000	Yes	$ 207,025	Various	Yes	$ 27.02	$ 5,594	1732 installed/repalced through 12/31.
Meters 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	$ 300,000	Yes		Various	Yes	$ 27.02	$ -	
Entrance Security Gate & Perimeter Fence	Entrance Security Gate & Perimeter Fence	1901598	DW17-183	26,101	2/2/2018	$ 75,000	$ 75,000	Yes	$ 66,204	Merrimack	Yes	$ 28.86	$ 1,911	
Replace 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	$ -	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.
Protectus Meter Upgrade	Spitbrook Rd Protectus Meter Upgrade	n/a	DW17-183	26,101	2/2/2018	$ 21,000	$ 21,000	Yes	$ -	Nashua	Yes	$ 26.23	$ -	Deferred until 2020.
Pipe Freeze Kits (2)	RoFrost Turbo 2 Electric Pipe Freeze Kts	1915135	DW17-183	26,101	2/2/2018	$ -	$ 7,400	Yes	$ 6,970	Nashua	No	$ 26.23	$ -	Existing Freeze kits have failed and not repairable 15+ years old.
Plate Compactors (4)	Replacement of failed compactors unable to obtain repair parts.	1918551	DW17-183	26,101	2/2/2018	$ -	$ 17,500	Yes	$ 15,888	Nashua	No	$ 26.23	$ -	Existing units have failed and parts for repair are not available.
Network 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	Merrimack	No	$ 28.86	$ -	Existing steel sander rusted through and was replaced with new sander.
Poly-Caster Sander	Poly-Caster Sander	1917720	DW17-183	26,101	2/2/2018			Yes	$ 7,460	Merrimack	No	$ 28.86	$ -	
2018 Dodge Ram 2500 (#313)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907613	0.1 DSRR			$ -	$ 1,969	No	$ 1,969	Merrimack	No	$ 28.86	$ -	
2018 Dodge Ram 2500 (#314)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907612	0.1 DSRR			$ -	$ 1,969	No	$ 1,969	Merrimack	No	$ 28.86	$ -	
2018 Dodge Ram 2500 (#315)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907615	0.1 DSRR			$ -	$ 2,542	No	$ 2,542	Merrimack	No	$ 28.86	$ -	
2018 Dodge Ram Promaster 1500 Cargo Van (#347)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907987	0.1 DSRR			$ -	$ 1,060	No	$ 1,060	Merrimack	No	$ 28.86	$ -	
2018 Dodge Ram Promaster 1500 Cargo Van (#348)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907988	0.1 DSRR			$ -	$ 1,060	No	$ 1,060	Merrimack	No	$ 28.86	$ -	
2018 Dodge Ram Promaster 1500 Cargo Van (#349)	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907989	0.1 DSRR			$ -	$ 1,060	No	$ 1,060	Merrimack	No	$ 28.86	$ -	
Meter Data Logging Equipment	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1907885	0.1 DSRR			$ -	$ 2,849	No	$ 2,850	Various	Yes	$ 27.02	$ 77	Equipment used in leak detection.
Gilman Street	Replace 1470 LF of 8 inch CI with 12 inch DIPCL.	1607377, 1702856, 1806433, 1901176	DW17-183	26,101	2/2/2018	$ 550,000	$ 615,000	Yes	$ 661,270	Nashua	Yes	$ 26.23	$ 17,345	Pavement contribution to the City of Nashua paid in 2018 ($127,264).
Elm Street	Replace 875 LF of 6 inch CI with 12 inch DIPCL.	1702871, 1812907, 1901599	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.
Monroe Street	Replace 310 LF of 4 inch CI with 8 inch DIPCL.	1702866, 1812908, 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.
Garden Street	Replace 74 LF of 8" CIP with 8 inch DIPCL and reconnect City Hall Fire serviced missed during Elm St work.	1918487	DW17-183	26,101	2/2/2018	$ -	$ -	Yes	$ 61,918	Nashua	Yes	$ 26.23	$ 1,624	Connecting Nashua City Hall sprinkler connection that was missed during the Elm St project. Also replaces a portion of the Garden Street water main. Per City almost all work had to be performed on Sunday nights. Final paving in Spring 2020 $18,000 not included.
W.Pearl Street	Replace 340 LF of 8" CIP with 120 LF of 12" DIPCL and 220 LF of 8" DIPCL.	1702869, 1812909, 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.
Harvard 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	Nashua	Yes	$ 26.23	$ 6,811	Pavement contribution to City of Nashua of $38,000 included.
West Hollis 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	$ -	Yes		Nashua	Yes	$ 26.23	$ -	Deferred to future year to accommodate additional water main projects.
NWS Improvements - Manchester Street	Add 2700 LF of 24 inch DIPCL on Manchester St.	1806805, 1900422	DWGTF Financing DW18-133	26,197	12/3/2018	$ 660,000	$ 660,000	Yes	$ 507,141	Nashua	Yes	$ 26.23	$ 13,302	Added security fence replacement (1,700 LF) along Manchester Street - some work will carry over into 2020 included.
NWS Improvements -Route 101A and Route 121 (Amherst)	Add 2200 LF of 12 inch DIPCL to close loop.	1806810, 1901607				$ 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.
NWS Improvements - Tinker Road	Replace 825 LF of 16 inch AC with 825 LF of 24 inch DIPCL.	1702835, 1806434, 1900421				$ 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.
NWS Improvements - Deerwood Drive & Amherst St. Intersection	Replace 1300 LF of 12 inch AC with 1300 LF of 24 inch DIPCL.	1806808, 1901609				$ 467,500	$ 467,500	Yes	$ 158,469	Nashua	Yes	$ 26.23	$ 4,157	Adjusted cost based on final installed materials in 2020 - some work will carry over into 2022.
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking.	1806806, 1901610				$ 635,800	$ 635,800	Yes	$ 1,302,871	Nashua	Yes	$ 26.23	$ 34,174	Adjusted cost based on final installed materials in 2020 - some work will carry over into 2023.
NWS Improvements Ponemah Rd/Route 101A Loop	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends.	1901611				$ 484,000	$ 484,000	Yes	$ -	Nashua	Yes	$ 26.23	$ -	Project cancelled and replaced with piping in projects above.
NWS Improvements - Engineering Design and Inspection	Engineering and Inspection of NW System watermain improvements.		0.1 DSRR			Incuded in NWS Improvemts above	Incuded in NWS Improvemts above	No	$ 174,347	Nashua	Yes	$ 26.23	$ 4,573	
City of 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	$ 190,000	Yes	$ 175,370	Nashua	Yes	$ 26.23	$ 4,600	Project Complete
City of 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	$ 162,800	Yes	$ 156,252	Nashua	Yes	$ 26.23	$ 4,098	Pavement contribution to City of Nashua of $20,832 included.
City of 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	Nashua	Yes	$ 26.23	$ 42,200	Pavement contribution to City of Nashua of $344,000 included.
City of 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	Nashua	Yes	$ 26.23	$ 456	Includes final paving - complete
Interconnection to BWC	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1900429	0.1 DSRR			$ -	$ 3,400	No	$ -	Nashua	Yes	$ 26.23	$ -	Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Woodward Avenue	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1910117	0.1 DSRR			$ -	$ 2,200	No	$ -	Nashua	Yes	$ 26.23	$ -	Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Ritter Street	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1910116	0.1 DSRR			$ -	$ 6,890	No	$ -	Nashua	Yes	$ 26.23	$ -	Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Factory Street	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1909270	0.1 DSRR			$ -	$ 20,209	No	$ 20,209	Nashua	Yes	$ 26.23	$ 530	Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Taylor Street	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1906988	0.1 DSRR			$ -	$ 233	No	$ 233	Nashua	Yes	$ 26.23	$ 6	Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
Shakespeare HP System Exp	Carryover Costs to 2018 projects not recovered in prior QCPAC.	1901942	0.1 DSRR			$ -	$ 257	No	$ 257	Nashua	Yes	$ 26.23	$ 7	Carry over costs from project completed in 2018, pay for with 0.1 DSRR.
City of Nashua Paving - Mill St.	Abandon 1.5" Steel water main and switch customers over to parrallel 8" water main.	1915006	0.1 DSRR			$ -	$ 17,900	No	$ 17,321	Nashua	No	$ 26.23	$ -	Includes final paving - complete Charged to Cost of Removal, Pay for with 0.1 DSRR.
City of Nashua Paving - Ferryalls Ct	Replace 35 ft of 1" copper water main crossing Canal St with a 4" DIPCL Water Main.	1908316	DW17-183	26,101	2/2/2018	$ -	$ 58,580	Yes	$ 51,988	Nashua	Yes	$ 26.23	$ 1,364	Ferryalls was replaced last year to the limit of Canal St - complete this is phase 2 extending into Canal St - complete.
City of 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	$ -	$ 95,000	Yes	$ 79,258	Nashua	Yes	$ 26.23	$ 2,079	Includes final paving - complete
City of Nashua Paving - Nutt St - Final Paving and restoration	Pavement restoration and final landscaping	1702842, 1907682	DW17-183	26,101	2/2/2018	$ -	$ 13,000	Yes	$ 6,549	Nashua	Yes	$ 26.23	$ 172	$6,240 of this will be recovered from Liberty Gas.
City of Nashua Paving - Cheshire St - Final Cleanup	Fence repair and site clean up	1908353	DW17-183	26,101	2/2/2018	$ -	$ 1,400	Yes	$ 486	Nashua	Yes	$ 26.23	$ 13	Completion of 2018 Workorder Project
City of 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	Nashua	Yes	$ 26.23	$ 4,584	Includes base paving - Finished paving required in 2020 not included.
City of 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	Nashua	Yes	$ 26.23	$ 37	Final paving bill for this project.
City of 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	Yes	$ 18,316	Nashua	Yes	$ 26.23	$ 480	Final paving bill for this project.
City of Nashua Paving - Lowell St - Carry over from 2017	Paving only - Carry over from 2017.	1915857	DW17-183	26,101	2/2/2018	$ -	$ 37,000	Yes	$ 37,084	Nashua	Yes	$ 26.23	$ 973	Final paving bill for this project.
City of Nashua Paving - Green St - Carry over from 2017	Paving only - Carry over from 2017.	1915844	DW17-183	26,101	2/2/2018	$ -	$ 10,000	Yes	$ 8,906	Nashua	Yes	$ 26.23	$ 234	Final paving bill for this project.
City of Nashua Paving - Beard St - Carry over from 2017	Paving only - Carry over from 2017.	1915845	DW17-183	26,101	2/2/2018	$ -	$ 25,900	Yes	$ 21,689	Nashua	Yes	$ 26.23	$ 569	Final paving bill for this project.
City of Nashua Paving - Terrace St - Carry over from 2017	Paving only - Carry over from 2018.	1915843	DW17-183	26,101	2/2/2018	$ -	$ 20,500	Yes	$ 10,600	Nashua	Yes	$ 26.23	$ 278	Final paving bill for this project.
City of 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	Nashua	Yes	$ 26.23	$ 440	Final paving bill for this project.
Merrimack 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	$ 181,811	Bids higher than Engineers estimate due to tight contractor market and changes in final permit requirements 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.
Asset Management Outside GIS Consulting Services	Outside GIS Consulting Services	1900414	DW17-183	26,101	2/2/2018	$ 60,000	$ 60,000	Yes	$ 7,961	Various	No	$ 27.02	$ -	
Asset Management Water Modeling Consulting	Water Modeling Consulting	1900414	DW17-183	26,101	2/2/2018	$ 36,000	$ 36,000	Yes	$ -	Various	No	$ 27.02	$ -	
Asset Management Trimble R2 Units	Trimble R2 Units	1900414	DW17-183	26,101	2/2/2018	$ 14,000	$ 14,000	Yes	$ -	Various	Yes	$ 27.02	$ -	
WAM/Synergen Upgrade Cost & Functionality Study	WAM/Synergen Upgrade Cost & Functionality Study	1900568, 1910219	0.1 DSRR			$ -	$ 45,000	No	$ 27,804	Various	No	$ 27.02	$ -	Study to select replacement of Synergyn CMMS system which goes unsupported at the end of 2020.
Investment in developer installed services at 1xannual revenue	Per tariff	n/a	DW17-183	26,101	2/2/2018	$ 60,000	$ 60,000	Yes	$ 90,434	Various	Yes	$ 27.02	$ 2,444	
2019 Ford Escape	Replace Totaled 2015 Ford Escape	1907481	DW17-183	26,101	2/2/2018	$ -	$ 23,998	Yes	$ 23,998	Merrimack	No	$ 28.86	$ -	Vehicle in accident. Vehicle totalled and needed to be replaced.
Bower Dam reconstruction and engineering	Bower Dam reconstruction and engineering	1824545, 1900432	0.1 DSRR			$ 25,000	$ 25,000	No	$ -	Merrimack	No	$ 28.86	$ -	Design Engineering Work for 2020 Dam rehabilitation
Bowers Dam Letter of Defficiency design/analysis	Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1901734, 1907078	0.1 DSRR				$ 35,000	No	$ -	Merrimack	No	$ 28.86	$ -	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this dam.
Harris Dam Letter of Defficiency design/analysis	Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1907076	0.1 DSRR				$ 40,000	No	$ -	Merrimack	No	$ 28.86	$ -	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this dam.
Supply Pond Letter of Defiency design/analysis	Perform Hydraulic and Hydrology analysis, design improvements to address spillway capacity.	1907077	0.1 DSRR				$ 35,000	No	$ -	Merrimack	No	$ 28.86	$ -	Letter of deficiency issued by the NHDES Dam Bureau regarding inadequate spillway capacity for this dam.

Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	$ 40,000	$ 15,445	Yes	$ 11,260	Various	Yes	$ 27.02	$ 304	0 pumps replaced, 5 rebuilds through 12/31/2019.
Booster Pump replacement/rebuild	WTP Rebuild pump end, Intermediate Pump #3	1914986	DW17-183	26,101	2/2/2018	$ -	$ 24,555	Yes	$ 24,554	Nalshua	Yes	$ 26.23	$ 644	Pump Bearings failed 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.
Chemical Feed pump replacements	Chemical Feed pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	$ 10,000	$ 10,000	Yes	$ -	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	$ 288	Project scope was limited to MTM media replacement.
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	$ -	$ 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.
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	n/a	DW17-183	26,101	2/2/2018	$ 17,500	$ 9,928	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	$ -	$ 4,568	Yes	$ 4,568	Nashua	Yes	$ 26.23	$ 120	Routine Miscellaneous Equipment purchase
Miscellaneous Equipment Purchased	Purchase Entry Tripod and Winch for WS Confined Space Program.	1910296	DW17-183	26,101	2/2/2018	$ -	$ 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	$ -	$ -	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	$ -	$ -	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, WTP Office	1917470	DW17-183	26,101	2/2/2018	$ -	$ -	Yes	$ 8,328	Nashua	Yes	$ 26.23	$ 218	WTP Structural/HVAC project
Purchase new lab equipment	Purchase new lab equipment	n/a	DW17-183	26,101	2/2/2018	$ 20,000	$ 18,500	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	$ -	$ -	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	$ -	$ -	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	$ -	$ -	Yes	$ 1,713	Nashua	Yes	$ 26.23	$ 45	Pump rebuild was determined to be best course.
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	$ 25,985	New PFAS regulations require that all filter media be changed out to ensure compliance with the new PFOA standard which is slated to go into effect on October 1, 2019. Filter media replacement being staged over 6 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	$ -	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	$ -	$ -	Yes	$ 15,995	Nashua	Yes	$ 26.23	$ 420	
Replace Kessler Farm booster pump package.	Replace 20 year old package booster station pumps and piping. Piping is steel which is beginning 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	$ 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	$ 10,000	Yes	$ 7,978	Nashua	Yes	$ 26.23	$ 209	
Camera System Upgrade	Carryover Costs from 2018 Project.	1819073, 1900413	0.1 DSRR			$ -	$ 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			$ -	$ 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 Comcast Ethernet line to one of the buildings.	1901619	DW17-183	26,101	2/2/2018	$ 40,000	$ 40,000	Yes	$ 22,896	Nashua	Yes	$ 26.23	$ 601	
Munis FER Enhancements	Munis FER Enhancements	n/a	DW17-183	26,101	2/2/2018	$ 35,000	$ 35,000	Yes	$ -	Merrimack	No	$ 28.86	$ -	No upgrades enhancements will be completed in 2019.
Wireless Access Points for Main Office	Wireless Access Points for Main Office	n/a	DW17-183	26,101	2/2/2018	$ 14,000	$ -	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	$ -	Yes	$ -	Merrimack	No	$ 28.86	$ -	
IOS Charging Station	Charging Station for multiple iPads to allow for upgrades across multiple devices concurrently.	n/a	DW17-183	26,101	2/2/2018	$ 1,200	$ -	Yes	$ -	Merrimack	No	$ 28.86	$ -	
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	$ -	
VDI Pilot	A pilot to determine whether a Virtual Desktop Infrastructure would be feasible for our environment.	n/a	DW17-183	26,101	2/2/2018	$ 12,000	$ -	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				$ -	No	$ 2,298	Merrimack	No	$ 28.86	$ -	
Misc Software	Misc Software	n/a	DW17-183	26,101	2/2/2018	$ 12,000	$ 12,000	Yes	$ -	Merrimack	No	$ 28.86	$ -	
Website upgrades	Website upgrades	n/a	DW17-183	26,101	2/2/2018	$ 8,000	$ 8,000	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	$ -	$ -	Yes	$ 7,305	Merrimack	No	$ 28.86	$ -	Previously licensed software was not suitable for Virtual environment.
Veeam Backup Software	Replacement of existing backup software due to exorbitant vendor fees to keep original system 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			$ -		No	$ 1,797	Merrimack	No	$ 28.86	$ -	Replace failed desktop computer.
Kessler Farm Tank Design	Kessler Farm Tank Design	1915117	0.1 DSRR	26,101	2/2/2018	$ -		No	$ 36,355	Nashua	No	$ 26.23	$ -	Engineering for tank to be constructed in 2020.
Retainage	Payment of Retainage for projects that were used and useful in 2018.		DW17-183	26,101	2/2/2018	$ -	$ -	Yes	$ 33,586	Merrimack	No	$ 28.86	$ -	Retainage paid in 2019 for 2018 QCPAC projects.
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.		DW17-183	26,101	2/2/2018	$ -	$ -	Yes	$ 230,645	Various	No		$ -	
Performance Management Platform Implementation & Technical Integration	Performance Management Platform Implementation & Technical Integration	1916551	DW17-183	26,101	2/3/2018	$ -	$ -	Yes	$ 13,804	Merrimack	No	$ 28.86	$ -	
Papercut MF Software for copiers	Papercut MF Software for copiers	1918363	DW17-183	26,101	2/3/2018	$ -	$ -	Yes	$ 3,708	Merrimack	No	$ 28.86	$ -	
					Pennichuck Water Works Projected 2019 Total Capital Expenditure Budget -	**$ 14,968,170**	**$ 16,902,524**		**$ 15,801,867**	**Projected Property Tax Expense associated**			**$ 416,593**	

Total Projected PWW QCPAC Capex for 2019 -	**$ 16,832,524**	**$ 14,898,170**	**$ 15,374,227**
Amount funded by SRF/DWGTF -	**$ 8,819,800**	**$ 8,819,800**	**$ 8,219,379**
Amount to be funded by 2020 Bond Issue -	**$ 8,012,724**	**$ 6,078,370**	**$ 7,154,848**

1. Tax rate is the sum of the local community rate plus the Statewide Utility tax rate of $6.60/$1000
2. 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 are based on a 30 year bond with interest rate of 3.38% resulting in annual P&I expenses of $ 440,205

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 Cost as of 6/30/2020	Estimated 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)	QCPAC Eligible 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	Yes	$ 25,000	$ 25,000	$ 31,090	$ 36,746	Various	Yes	$ 28.45	$ 1,045	6 new services through 12/31/20.
Renewed Services (20)	Replacement of failed services.	workorders	DW17-183	26,101	2/2/2018	$ 110,000	Yes	$ 60,000	$ 75,000	$ 68,052	$ 68,052	Various	Yes	$ 28.45	$ 1,936	19 Renewed Services Installed through 12/31/2020.
Hydrants (10)	Replacement of non-functional hydrants (Run rate) (8 YTD)	30 & 31 workorders	DW17-183	26,101	2/2/2018	$ 60,000	Yes	$ 44,000	$ 55,000	$ 48,000	$ 41,401	Various	Yes	$ 28.45	$ 1,178	9 Hydrants Repaired/Replaced through 12/31/2020.
Gates (10)	Replacement of Failed Gate Valves	12 & 13 workorders	DW17-183	26,101	2/2/2018	$ 40,000	Yes	$ 40,000	$ 50,000	$ 40,000	$ 43,189	Various	Yes	$ 28.45	$ 1,229	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	Yes	$ 40,000	$ 50,000	$ 51,000	$ 50,832	Various	Yes	$ 28.45	$ 1,446	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	Yes	$ 55,300	$ 91,000	$ 96,000	$ 94,393	Various	Yes	$ 28.45	$ 2,686	631 Meters Installed/Replaced through 12/31/2020.
Meters 5/8"-6" - Replace faled meters - Core & CWS (200)	Meters 5/8"-6" failed meters - Core & CWS (200)	50 workorders	DW17-183	26,101	2/2/2018	$ 21,000	Yes	$				Various	Yes	$ 28.45	$ -	Total included in row above.
Replace Mud sucker pump	Replace 15+ year old ditch pump.	2005200	DW17-183	26,101	2/2/2018	$ -	Yes	$ 6,356	$ 6,356	$ 6,356	$ 6,356	Various	Yes	$ 28.45	$ 181	
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	Yes	$ 70,000	$ 70,000	$ 70,000	$ 66,969	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	Yes	$ 70,000	$ 70,000	$ 70,000	$ 68,951	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	Yes	$ 70,000	$ 70,000	$ 7,000	$ 68,429	Merrimack	No	$ 28.52	$ -	
Valve Turner & Vac Truck	Replacemnt for #60 - 14 Year Vac Trailer w/excessive rot, will not pass inspection.	n/a	DW17-183	26,101	2/2/2018	$ 160,000	Yes	$ -	$ -	$ -		Merrimack	No	$ 28.52	$ -	Deferred. Not avialable due to impact of COVID19 on manufacturing.
Foreman's Truck	Replacement for #59 - 2011 International, 120K Miles, High Hours, Electrical, body issues.	2004436	DW17-183	26,101	2/2/2018	$ 140,000	Yes	$ 140,000	$ 140,000	$ 140,000	$ 79,206	Merrimack	No	$ 28.52	$ -	Deferred until 2020.
Locker Room Benches @ Distribution Facility	Permanent Benches for Male & Female locker rooms.	n/a	DW17-183	26,101	2/2/2018	$ 7,500	Yes	$ 7,500	$ -	$ -		Merrimack	Yes	$ 28.52	$ -	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	$ -		Merrimack	Yes	$ 28.52	$ -	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	Yes	$ 12,000	$ -			Merrimack	Yes	$ 28.52	$ -	Deferred until 2020 due to COVID19 delays.
Landscape improvements	Repair Hill Sides @ 16 DWH and overseed with erosion mix.	2008276	DW17-183	26,101	2/2/2018	$ 12,000	Yes	$ 12,000	$ 12,000	$ 12,550	$ 15,350	Merrimack	Yes	$ 28.52	$ 438	
Automatic Entrance Gate @ Distribution Facility	Replace manual gate @ Distrbution facility with automatic gate.	2000718		0.1 DSRR		$ 10,000	No	$ 10,000	$ 10,000	$ -	$ 3,083	Merrimack	Yes	$ 28.52	$ 88	Work delayed on long range gate reader until 2021, due to COVID19.
Emergency Gas Detection Meters	Emergency Gas Detection Meters	2006033	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ 10,411	$ 10,411	$ 10,411	Merrimack	Yes	$ 28.52	$ 297	Replace exsisting failed tritector.
Replacement Equipment/Excavator Trailer	Replacement Equipment/Excavator Trailer	2007566	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ -	$ 19,457	$ 17,917	Merrimack	Yes	$ 28.52	$ 511	
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	$ -	$ -	$ 6,994	$ 4,995	Merrimack	Yes	$ 28.52	$ 142	
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	Yes	$ -	$ -	$ -		Nashua	Yes	$ 27.13	$ -	Deferred
NWS Improvements - Manchester Street	Install 1700 LF of 24 inch DI and new Fencing.	2000383		DWGTF		$ 125,000	Yes	$ 140,000	$ 140,000	$ 86,000	$ 85,059	Nashua	Yes	$ 27.13	$ 2,308	
NWS Improvements - Deerwood Dr. Northwest Blvd Loop	Add 3400 LF of 20 inch HDPE including RR pipe jacking.	2000386		DWGTF		$ 40,000	Yes	$ 25,000	$ 25,000	$ 18,500	$ 19,576	Nashua	Yes	$ 27.13	$ 531	
NWS Improvements Veteran's Rd/Route 101A Loop	Add 2200 LF of 12 inch DIPCL to close two loop major dead ends.	2000384		DWGTF		$ 125,000	Yes	$ 125,000	$ 125,000	$ 125,000	$ 125,566	Nashua	Yes	$ 27.13	$ 3,407	
NWS Improvements Tinker Road Paving and restoration	NWS Improvements Tinker Road Paving and restoration.	2000385		DWGTF		$ 125,000	Yes	$ 32,000	$ 32,000	$ 126,000	$ 125,458	Nashua	Yes	$ 27.13	$ 3,404	
Simon & Will Street - Paving	Simon & Will Street - Paving	2000387	DW17-183	26,101	2/2/2018	$ 30,000	Yes	$ 30,000	$ 30,000	$ -		Nashua	Yes	$ 27.13	$ -	Deferred
Garden Street - Final Paving	Garden Street - Final Paving	2000388	DW17-183	26,101	2/2/2018	$ 18,000	Yes	$ 18,000	$ 18,000	$ -		Nashua	Yes	$ 27.13	$ -	Deferred
City of Nashua Sewer - Lake Street	Replace 2950 LF of 6 inch CI with 12 inch DIPCL (Paving).	2000378	DW17-183	26,101	2/2/2018	$ 30,000	Yes	$ 30,000	$ 30,000	$ -	$ 10,589	Nashua	Yes	$ 27.13	$ 287	
Merrimack River Intake	Year Round Raw Water Intake from Merrimack River	2000380	DWGTF 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	Amount of MRI raw water intake funds still avialable from DWGTF.
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	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 was 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	$ -	
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	Yes	$ 40,000	$ 40,000	$ 40,000	$ 56,448	Merrimack	Yes	$ 28.52	$ 1,610	
Brook Street	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	Yes	$ 274,000	$ 209,000	$ 276,000	$ 257,109	Nashua	Yes	$ 27.13	$ 6,975	Restoration work slated for 2021 was completed in 2020.
Hamilton Street	Replace 410 LF of 6 inch CI with 4 inch DIPCL.	1502512, 2003422	DW17-183	26,101	2/2/2018	$ 87,000	Yes	$ 63,000	$ 142,000	$ 137,000	$ 126,068	Nashua	Yes	$ 27.13	$ 3,420	
Burritt Street	Replace 425 LF of 4 inch CI with 8 inch DIPCL.	1502513, 2003420	DW17-183	26,101	2/2/2018	$ 141,000	Yes	$ 95,000	$ 108,700	$ 146,800	$ 134,733	Nashua	Yes	$ 27.13	$ 3,655	
Burritt Street	Replace 125 LF of 4 inch CI with 4 inch DIPCL.	n/a	DW17-183	26,101	2/2/2018	$ 38,000	Yes	$ 27,000	$ 54,300	$ -		Nashua	Yes	$ 27.13	$ -	Included in row above.
Verona Street	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 initially part of the design.
Sarasota Ave	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	$ -	
Amherst Dodge Rd Watermain Abandonment	Abandon Approx. 700 LF of AC Main, Transfer 2 services & 1 Hyd to parallel 8" DIPCL water main.	2001229	DW17-183	26,101	2/2/2018	$ 20,000	Yes	$ 71,000	$ 105,750	$ 146,000	$ 149,710	Amherst	No	$ 32.93	$ -	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	$ -	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	Yes	$ 35,000	$ 24,431	$ 24,431	$ 23,470	Merrimack	Yes	$ 28.52	$ 669	
Replace Engineering SUV #34	2020 Ford Escape SE - Replace Vehicle #401	2006755	DW17-183	26,101	2/2/2018	$ 30,000	Yes	$ 30,000	$ 23,474	$ 24,474	$ 24,432	Merrimack	Yes	$ 28.52	$ 697	
Investment in developer installed services at Ixannual revenue	Per tariff	n/a	DW17-183	26,101	2/2/2018	$ 60,000	Yes	$ 84,000	$ 62,000	$ 80,000	$ 79,591	Various	Yes	$ 28.45	$ 2,265	136 Developer Installed Services through 12/31/2020.
Asset Management Trimble R2 Units	Add two new GPS units for additional staff.	2003535	DW17-183	26,101	2/2/2018	$ 24,000	Yes	$ 24,000	$ 24,000	$ 24,000	$ 21,963	Merrimack	No	$ 28.52	$ -	
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	$ 485,114	Merrimack	Yes	$ 28.52	$ 13,835	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 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	$ -	Yes	$ 44,700	$ 33,600	$ 39,000		Nashua	Yes	$ 27.13	$ 1,484	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.		DW17-183	26,101	2/2/2018	$ -	Yes	$ 8,000	$ 15,000	$ 15,000	$ 54,705	Nashua	Yes	$ 27.13	$ -	Added due to Kessler Farm Tank deferral to 2021.
School Street	Replace 400 LF of 4 inch CI with 680lf of 6 inch DIPCL (creates a looped system).	2003533	DW17-183	26,101	2/2/2018	$ -	Yes	$ 244,000	$ 166,850	$ 267,000	$ 270,734	Nashua	Yes	$ 27.13	$ 7,345	Added due to Kessler Farm Tank deferral to 2021, restoration work that was planned for 2021 was completed in 2020.
Fulton Street(Lake St Area PH2)	Replace 180 LF of 2" CL with 4" DIPCL - addition to Lake St Ph 2 project.	2007556	DW17-183	26,101	2/2/2018	$ -	Yes	$ 40,000	$ 93,950	$ 92,900	$ 80,801	Nashua	Yes	$ 27.13	$ 2,192	Added due to Kessler Farm Tank deferral to 2021.
Manatee St (Lake St Area PH2)	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	$ -	Yes	$ 55,000	$ 84,000	$ 54,500	$ 49,820	Nashua	Yes	$ 27.13	$ 1,352	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	$ -	Yes	$ 102,000	$ 157,450	$ 164,300	$ 149,975	Nashua	Yes	$ 27.13	$ 4,069	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	$ -	Yes	$ 60,000	$ 60,000	$ 20,000		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	$ -	Yes	$ -	$ -	$ 31,500	$ 90,922	Nashua	Yes	$ 27.13	$ 2,467	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	$ -	Yes	$ 38,000	$ 45,500	$ 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	$ -	Yes	$ 70,000	$ 120,600	$ 84,000	$ 74,774	Nashua	Yes	$ 27.13	$ 2,029	Added due to Kessler Farm Tank deferral to 2021, $$ from paving contribution in row 67 added in.
Walnut St (paving contribution)	Paving Contribution for paving in 2021.		DW17-183	26,101	2/2/2018	$ -	Yes	$ 20,000	$ -	$ -		Nashua	Yes	$ 27.13	$ -	Added due to Kessler Farm Tank deferral to 2021, $$ in row 66.
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	$ -	Added due to Kessler Farm Tank deferral to 2021. The majority of this project will be occurring in 2021 due to later than expected bid opening.
Pennichuck Brook Ponds Aerial Survey	Pennichuck Brook Ponds Aerial Survey	2006039	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ 21,700	$ 21,700	$ 2,209	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	
Bowers Dam LOD response engineering	Bowers Dam LOD response engineering	1901734, 1907078, 2000373		0.1 DSRR		$ 10,000	No	$ 10,000	$ 10,000	$ 10,000	$ 6,761	Nashua/Merrimack	No	$ 27.83	$ -	Bowers Dam LOD response engineering
Harris LOD response engineering	Harris LOD response engineering	1907076, 2000375		0.1 DSRR		$ 20,000	No	$ 20,000	$ 20,000	$ 20,000	$ 25,535	Nashua/Merrimack	No	$ 27.83	$ -	Deferred
Supply Pond LOD response engineering	Supply Pond LOD response engineering	1907077, 2000374		0.1 DSRR		$ 32,000	No	$ 32,000	$ 32,000	$ 32,000	$ 15,788	Nashua/Merrimack	No	$ 27.83	$ -	Deferred
Rebuild Pump 1, Northwest, Nashua	Final costs for reinstallation and alignment.	1619402, 1701898, 1918550, 2000438	DW17-183	26,101	2/2/2018	$ 5,000	Yes	$ 53,457	$ 3,457	$ 3,457	$ 53,457	Nashua	Yes	$ 27.13	$ 1,450	Previous Year work was instrumental in the completion of the rebuild of NW Pump #1, remaining $50,000 for the rebuild of NWS 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	$ -	
MSDC payment to MWW	MSDC payment for MSDC gallons beyond that currently purchased.	2009023	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ -	$ 166,346	$ 166,347	Various	No	$ 28.45	$ -	During 2020, PWW used 47,341 MSDC gallons beyond what had been purchased. 3,450 of the MSDC gallons were purchased with cash collected via MSDC tariff. 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	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			$ 6,000	$ 5,319	Bedford	Yes	$ 24.62	$ 131	
Booster Pump replacement/rebuild	WTP Intermediate pump #2 electric motor rebuild	2007216	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ 12,644	$ 12,644	$ 12,644	Nashua	Yes	$ 27.13	$ 343	
Well Pump replacements	Well Pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	$ 15,000	Yes	$ 10,000	$ -	$ 5,025	$ 15,160	Various	Yes	$ 28.45	$ 431	2 well pumps repaired/replaced through 12/31/20.
Chemical Feed pump replacements	Chemical Feed pump replacements	60, 61, 62 & 63 workorders	DW17-183	26,101	2/2/2018	$ 10,000	Yes	$ 6,757	$ 3,500	$ 4,939	$ 4,939	Various	Yes	$ 28.45	$ 141	3 Chemical Pumps Repaired/Replaced through 12/31/2020.
Chemical Feed pump replacements	Rebuild Ferric Feed Pumps 2 & 3	2002269	DW17-183	26,101	2/2/2018	$ -	Yes	$ 3,243	$ 3,243	$ 3,243	$ 3,541	Various	Yes	$ 28.45	$ 101	
Harris Dam raise earthen embankment, raise dike wall	Harris Dam raise earthen embankment, raise dike wall.	n/a	DW17-183	26,101	2/2/2018	$ 965,000	Yes	$ -	$ -	$ -		Nashua/Merrimack	Yes	$ 27.83	$ -	Deferred until 2021, Engineering services in 2020, See Row 72.
Misc. Structural Improvements	Misc. Structural Improvements	n/a	DW17-183	26,101	2/2/2018	$ 20,000	Yes	$ 16,700	$ -	$ -		Various	Yes	$ 28.52	$ -	
Misc. Structural Improvements	Replace Fire Alarm System Control Boards - Damaged by Lightning Strike.	2006032	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ 15,120	$ 15,120	$ 14,242	Nashua	Yes	$ 27.13	$ 386	
Misc. Structural Improvements	Replace Maple Haven Pump Station Rood.	2008269	DW17-183	26,101	2/2/2018		Yes	$ -	$ -	$ 4,235	$ 5,170	Derry	Yes	$ 29.06	$ 150	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	n/a	DW17-183	26,101	2/2/2018	$ 17,500	Yes	$ 8,437	$ 8,473	$ -		Nashua	Yes	$ 27.13	$ -	

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 Cost as of 6/30/2020	Estimated 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)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion from Board Approved 2020 Capex Budget
Miscellaneous Equipment Purchased	Replace Sewage Ejection Pump, Snow Station	2003515	DW17-183	26,101	2/2/2018	$ -	Yes	$ 3,300	$ 3,300	$ 3,300	$ 3,287	Nashua	Yes	$ 27.13	$ 89	
Miscellaneous Equipment Purchased	WTP Replace Filter-to-Waste Valve	1918552	DW17-183	26,101	2/2/2018	$ -	Yes	$ 2,353	$ 2,353	$ 2,353	$ 2,353	Nashua	Yes	$ 27.13	$ 64	This was in 2019 budget, but did not go useful until 2020.
Miscellaneous Equipment Purchased	Replace Sludge Pump #2, WTP.	2004525	DW17-183	26,101	2/2/2018	$ -	Yes	$ 3,410	$ 3,410	$ 3,410	$ 3,406	Various	Yes	$ 28.52	$ 97	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	n/a	DW17-183	26,101	2/2/2018	$ 30,000	Yes	$ 8,500	$ 8,500	$ -		Various	Yes	$ 28.52	$ -	
Miscellaneous SCADA/Electrical	Replace VFD, Pump #3 - High Pines Booster	2003512	DW17-183	26,101	2/2/2018	$ -	Yes	$ 9,500	$ 9,500	$ 9,500	$ 9,523	Nashua	Yes	$ 27.13	$ 258	
Miscellaneous SCADA/Electrical	Install cellular SCADA device, HI and LO, Derry.	2004180	DW17-183	26,101	2/2/2018	$ -	Yes	$ 2,500	$ 2,500	$ 2,500	$ 2,354	Derry	Yes	$ 27.02	$ 64	
Miscellaneous SCADA/Electrical	SCADA control system, Powder Hill, Donald St.	2004989	DW17-183	26,101	2/2/2018	$ -	Yes	$ 9,500	$ 9,500	$ 9,500		Bedford	Yes	$ 27.02	$ -	Deferred
Miscellaneous SCADA/Electrical	Replace Intermediate Pump 3, VFD at WTP.	2008126	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ -	$ 5,500		Nashua	Yes	$ 27.13	$ -	Deferred
Rebuild NWS booster pump #2	Rebuild NWS booster pump #2.	2003436	DW17-183	26,101	2/2/2018	$ 40,000	Yes	$ -	$ 50,000	$ 50,000	$ 43,464	Nashua	Yes	$ 27.13	$ 1,179	
WTP 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	$ -	
Purchase 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	$ -	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	n/a	DW17-183	26,101	2/2/2018	$ 10,000	Yes	$ 10,000	$ -	$ -		Various	Yes	$ 27.13	$ -	
Replace Vehicle 200	Replace Vehicle 200	2007616	DW17-183	26,101	2/2/2018	$ 40,000	Yes	$ 40,000	$ 35,000	$ 35,000	$ 31,949	Nashua	No	$ 27.13	$ -	
Replace Vehicle 201	Replace Vehicle 201	2004137	DW17-183	26,101	2/2/2018	$ 55,000	Yes	$ 55,000	$ 55,000	$ 55,000	$ 53,062	Nashua	No	$ 27.13	$ -	
Replace Vehicle 63	Replace Vehicle 63	n/a	DW17-183	26,101	2/2/2018	$ 40,000	Yes	$ 40,000	$ -	$ -		Nashua	No	$ 27.13	$ -	Deferred
Repair/Replace Soffit and Fascia, Boat House Bldg.	Repair/Replace Soffit and Fascia, Boat House Bldg.	n/a	DW17-183	26,101	2/2/2018	$ 30,000	Yes	$ 30,000	$ -	$ -		Nashua	Yes	$ 27.13	$ -	No contractors available. Deferred until 2021.
Carbon media changeout-filters 5 & 6	Carbon media changeout-filters 5 & 6.	2003490	DW17-183	26,101	2/2/2018	$ 500,000	Yes	$ 500,000	$ 450,000	$ 450,000	$ 495,331	Nashua	Yes	$ 27.13	$ 13,438	
Install 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.
SCADA PLC Replacements	SCADA PLC Replacements	n/a	DW17-183	26,101	2/2/2018	$ 75,000	Yes	$ 75,000	$ -	$ -		Nashua	Yes	$ 27.13	$ -	Deferred until 2021.
Replace 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	$ 459	Changed from 2 to 4 units.
Rebuild Merrimack River pump #2	Rebuild Merrimack River pump #2.	2008305	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ -	$ 93,100	$ 93,090	Merrimack	Yes	$ 28.86	$ 2,687	
Supply Pond Dam Modifications per NHDES LOD	Engineering, Permitting, Design Services	2008270		0.1 DSRR		$ -	No	$ -	$ -	$ 69,000		Merrimack/Nashua	No	$ 27.55	$ -	Engineering Design Work only
Harris Dam Raise Earthen Embankment, Dike wall	Engineering, Permitting, Design Services	2008271		0.1 DSRR		$ -	No	$ -	$ -	$ 90,000		Merrimack/Nashua	No	$ 27.55	$ -	Engineering Design Work only
Munis FER Enhancements	Munis FER Enhancements	n/a	DW17-183	26,101	2/2/2018	$ 35,000	Yes	$ 35,000	$ 35,000	$ 35,000		Merrimack	No	$ 28.52	$ -	
Misc Hardware	Misc Hardware	n/a	DW17-183	26,101	2/2/2018	$ 20,000	Yes	$ 6,945	$ -	$ 1,500		Merrimack	No	$ 28.52	$ -	
Misc Hardware	Laptop Purchase for Regulatory Department - JK	2001987	DW17-183	26,101	2/2/2018	$ -	Yes	$ 1,660	$ 1,660	$ 1,660	$ 1,397	Merrimack	No	$ 28.52	$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	Laptop Purchase for Regulatory Department - CAH	2002761	DW17-183	26,101	2/2/2018	$ -	Yes	$ 1,400	$ 1,400	$ 1,400	$ 1,397	Merrimack	No	$ 28.52	$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	Laptop Purchase for onboarding employees (5)	2002930	DW17-183	26,101	2/2/2018	$ -	Yes	$ 9,995	$ 9,995	$ 9,995	$ 9,913	Merrimack	No	$ 28.52	$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	Laptop Purchase for New Employee C. Harding	2005120	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ 2,491	$ 2,491	$ 2,491	Merrimack	No	$ 28.52	$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	Spare Laptop Purchase	2005238	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ 1,005	$ 1,005	$ 1,005	Merrimack	No	$ 28.52	$ -	Purchase to accommodate work from home created by COVID19.
Misc Hardware	New Laptop for Accounting new hire - Payroll Admin	2006388	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ 1,160	$ 1,160	$ 1,160	Merrimack	No	$ 28.52	$ -	Purchase to accommodate work from home created by COVID19.
Misc Software	Misc Software	n/a	DW17-183	26,101	2/2/2018	$ 12,000	Yes	$ 2,880	$ -	$ -		Merrimack	No	$ 28.52	$ -	
Misc 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	$ -	
Misc Software	Tyler Notify	2003317	DW17-183	26,101	2/2/2018	$ -	Yes	$ 3,840	$ 3,840	$ 3,840	$ 3,024	Merrimack	No	$ 28.52	$ -	
Misc Software	MSL Server License for Munis Upgrade	2005976	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ 6,350	$ 6,350		Merrimack	No	$ 28.52	$ -	Deferred
Website upgrades	Website upgrades	n/a	DW17-183	26,101	2/2/2018	$ 8,000	Yes	$ 8,000	$ -	$ -		Merrimack	No	$ 28.52	$ -	
Salmon Replacement at WTP	The server at WTP 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	$ -	
Additional 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	$ -	
Meraki 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	$ -	
Storage 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	$ -	
Veeam 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	$ 2,000		Merrimack	No	$ 28.52	$ -	
Client Remote Control Software	5 licenses	n/a	DW17-183	26,101	2/2/2018	$ 1,300	Yes	$ -	$ 1,300	$ 1,300		Merrimack	No	$ 28.52	$ -	
CMMS replacment project	Replace Synergen/WAM with newer more cost effective/improved functionality system.	2000368	DW17-183	26,101	2/2/2018	$ 600,000	Yes	$ 600,000	$ 600,000	$ 450,000	$ 433,263	Nashua	Yes	$ 27.13	$ 11,754	Project implementation has been slowed due to COVID19. Project $$ not used in 2020 will carry over into 2021.
New Building	New Building	2001988		0.1 DSRR		$ 78,300	No	$ 140,000	$ 140,000	$ 140,000	$ 610,337	Nashua	Yes	$ 27.13	$ 16,558	
New 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	$ 404	
New 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	$ 2,112	
JAMF - 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	$ -	
Document 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	$ -		Merrimack	No	$ 28.52	$ -	
Click 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	$ -	
Lemon Street, Final Restoration	2020 Carryover Costs	2000693	DW17-183	26,101	2/2/2018	$ -	Yes	$ 1,500	$ 1,500	$ 1,500	$ 1,500	Nashua	Yes	$ 27.13	$ 41	Not included in approved 2020 Budget.
Lowell Street, Final Restoration	2020 Carryover Costs	2000694	DW17-183	26,101	2/2/2018	$ -	Yes	$ 2,500	$ 2,500	$ 2,500		Nashua	Yes	$ 27.13	$ -	Not included in approved 2020 Budget.
West Pearl Street, Final Restoration	2020 Carryover Costs	2000695	DW17-183	26,101	2/2/2018	$ -	Yes	$ 12,750	$ 12,750	$ 12,750	$ 12,750	Nashua	Yes	$ 27.13	$ 346	Not included in approved 2020 Budget.
Retainage	Paid out in 2020 on retainage held on 2019 projects.	N/A	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ -	$ 162,383	$ 164,061	Nashua	Yes	$ 27.13	$ 4,451	
Retainage	Held on various projects listed above. Will be paid out in 2021.	N/A	DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ -	$ (54,805)	$ (35,292)	Nashua	Yes	$ 27.13	$ (957)	
FALOC interest	Interest accrued on PWW FALOC from 5/1/2020 to 4/1/2021.		DW17-183	26,101	2/2/2018	$ -	Yes	$ -	$ -	$ 70,000	$ 68,066	Various	No	$ 28.45	$ -	Projected interest accrued on FALOC $$ for funding of 2020 Capex projects.
Elm Street, Final Restoration	2020 Carryover Costs	2000696	DW17-183	26,101	2/2/2018	$ -	Yes	$ 21,750	$ 21,750	$ 21,750	$ 21,750	Nashua	Yes	$ 27.13	$ 590	Not included in approved 2020 Budget.
Warren Street, Final Restoration	2020 Carryover Costs	2000697	DW17-183	26,101	2/2/2018	$ -	Yes	$ 1,500	$ 1,500	$ 1,500	$ 1,500	Nashua	Yes	$ 27.13	$ 41	Not included in approved 2020 Budget.
New Drum Hand Truck	New Drum Hand Truck	2003534	DW17-183	26,101	2/2/2018	$ -	Yes				$ 1,383	Nashua	Yes	$ 27.13	$ 38	
Replace Sludge Discharge Pump #1	Replace Sludge Discharge Pump #1	2100054	DW17-183	26,101	2/2/2018	$ -	Yes				$ 3,522	Nashua	Yes	$ 27.13	$ 96	
M-Scopes & Metal Detectors	M-Scopes & Metal Detectors	2100055	DW17-183	26,101	2/2/2018	$ -	Yes				$ 9,910	Nashua	Yes	$ 27.13	$ 269	
Office Space Planning	Office Space Planning	1806837, 1917427		0.1 DSRR		$ -	No				$ 30,045	Nashua	No	$ 27.13	$ -	
					Pennichuck Water Works Projected 2020 Total Capital Expenditure Budget -	**$ 9,995,700**		**$ 6,957,314**	**$ 6,502,362**	**$ 6,876,855**	**$ 6,951,260**	**Projected Property Tax Expense associated**			**$ 157,103**	

0.1 DSRR Funded project Total -				**$ 229,300**	**#REF!**	**#REF!**	**$ 334,800**	**$ 849,428**
Total Projected PWW QCPAC Capex for 2020 -				**$ 9,766,400**	**#REF!**	**#REF!**	**$ 6,542,055**	**$ 6,101,832**
Total Projected PWW QCPAC Capex for 2020 funded with Bonds -				**$ 9,211,025**	**#REF!**	**#REF!**	**$ 5,994,446**	**$ 5,628,830**
Total Projected PWW QCPAC Capex for 2020 funded with Drinking Water and Groundwater Trust Fund -				**$ 555,375**	**$ 514,109**	**$ 514,109**	**$ 547,609**	**$ 473,002**
Project Annual P&I on 2020 QCPAC eligible Projects -				**$ 530,560**	**#REF!**	**#REF!**	**$ 355,254**	**$ 331,380**
Estimated Bond Terms (Bonds to be sold in April 2021) -	30	Years @	3.5%	$ 500,816	#REF!	#REF!	$ 325,926	$ 306,047
DWGTF Terms -	30	Years @	3.38%	$ 29,744	$ 27,534	$ 27,534	$ 29,328	$ 25,333

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	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
Foreman Truck	Upfit of Foreman's Truck body at JC Madigans.	NTD	0.1 DSRR			$ 61,000	No	$ 61,000	Merrimack	No	$ 27.02	$ -	
2021 New Services (10)	Single Family, Owner Build, New Homes	Routine	DW20-157	Awaiting Approval		$ 50,000	Yes	$ 80,000	Various	Yes	$ 27.02	$ 2,162	7 New Services installed through 06/30/21, projecting 3 more
2021 Renewed Services (20)	Replacement of Failed Services	Routine	DW20-157	Awaiting Approval		$ 110,000	Yes	$ 60,000	Various	Yes	$ 27.02	$ 1,621	8 Renewed Services installed through 06/30/21, projecting 12 more
2021 Hydrants (15)	Replacement of non-functional hydrants	Routine	DW20-157	Awaiting Approval		$ 90,000	Yes	$ 60,000	Various	Yes	$ 27.02	$ 1,621	1 Hydrant installed/repaired through 06/30/21, projecting 9 more
2021 Gates (10)	Replacement of Failed Gate Valves	Routine	DW20-157	Awaiting Approval		$ 40,000	Yes	$ 120,000	Various	Yes	$ 27.02	$ 3,242	18 Gates installed/epaired through 06/30/21, projecting 10 more
2021 Radios (4250)	Replacement of failed radios	Routine	DW20-157	Awaiting Approval		$ 425,000	Yes	$ 11,000	Various	Yes	$ 27.02	$ 297	47 Radios installed through 06/30/21 projecting 70 more
2021 Radios (4250)	Yr 1 of 7 Replacment of all PWW Radios installed in 2007 (4000), New Radios for new customers (250).	2101626	DW20-157	Awaiting Approval			Yes	$ 400,000	Various	Yes	$ 27.02	$ 10,808	525 Radios installed through 06/30/21 projecting 3500 more
2021 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers (250). Replacement of failed meters(250).	Routine	DW20-157	Awaiting Approval		$ 50,000	Yes	$ 50,000	Various	Yes	$ 28.86	$ 1,443	154 Meters installed through 06/30/21, projecting 200 more
Replacement Utility Truck	Replacement for Truck #83 - 2011 F350, 110K miles, High maint costs & lots of body rust/rot.	2103610	DW20-157	Awaiting Approval		$ 70,000	Yes	$ 70,000	Merrimack	No	$ 28.86	$ -	
Replacement Utility Truck	Replacement for Truck #9 - 2014 F350, 110K Miles, High maint costs & significant rust.	2103609	DW20-157	Awaiting Approval		$ 70,000	Yes	$ 70,000	Merrimack	No	$ 28.86	$ -	
Replacement Full Size Pickup	Replacement for Truck #95 - 2008 Ford Ranger 110K miles did not pass inspection.	2103612	DW20-157	Awaiting Approval		$ 45,000	Yes	$ 45,000	Merrimack	No	$ 28.86	$ -	
Replacement Full Size Pickup	Replacement for Truck # 20 - 2008 Ford Ranger 135K miles did not pass inspection.	NTD	DW20-157	Awaiting Approval		$ 45,000	Yes	$ -	Merrimack	No	$ 28.86	$ -	Deferred until 2022
Replacement SUV - Meter Reading	Replacement for vehicle #21 - 2013 Chevy Equinox 135k miles, high maint costs & suspension issues.	2103615	DW20-157	Awaiting Approval		$ 35,000	Yes	$ 35,000	Merrimack	No	$ 26.63	$ -	
Landscape Improvements	Irrigation system, loam & seed area at front of Distribution Building.	NTD	DW20-157	Awaiting Approval		$ 15,000	Yes	$ 15,000	Merrimack	Yes	$ 26.63	$ 399	
Replacement Valve/vac trailer	Replacement for # 96 - 2010 EHWA Valvemate - Valve Turner not functional and cannot get parts.	2105021	DW20-157	Awaiting Approval		$ 65,000	Yes	$ 72,000	Merrimack	Yes	$ 26.63	$ 1,917	
Replacement Equipment Trailer	Replacement for # 53 - 14' BigTex Trailer - Excessive rust & rot and safety issues.	NTD	DW20-157	Awaiting Approval		$ 7,500	Yes	$ 7,500	Merrimack	Yes	$ 26.63	$ 200	
Protectus Meter Upgrade	Protectus Meter Upgrade	NTD	DW20-157	Awaiting Approval		$ 22,000	Yes	$ 22,000	Nashua	Yes	$ 26.63	$ 586	
Valve Turner & Vac Truck	Replacement for #60 - 15 Year Vac/Valve Trailer with excessive rot, will not pass inspection.	2103613	DW20-157	Awaiting Approval		$ 200,000	Yes	$ 200,000	Merrimack	Yes	$ 28.86	$ 5,772	
Office Space for Const & Maint Supervisor	Permanent office space for Contruction & Maintenance Supervisor	NTD	DW20-157	Awaiting Approval		$ 15,000	Yes	$ 15,000	Merrimack	Yes	$ 28.86	$ 433	
Locker Room Deep Wash Sinks	Deep stainless wash sinks to replace existing sinks in male & female locker rooms.	NTD	DW20-157	Awaiting Approval		$ 10,000	Yes	$ 10,000	Merrimack	Yes	$ 28.86	$ 289	
Locker Room Benches	Permanent Benches for Male & Female locker rooms.	NTD	DW20-157	Awaiting Approval		$ 7,500	Yes	$ 7,500	Merrimack	Yes	$ 28.86	$ 216	
Distribution Facility Bird Mitigation	Installation of 3/4" Bird Mitigation Netting to the Outside Vehicle/equipment covered storeage area	2105481				$ -	Yes	$ 27,000	Merrimack	Yes	$ 28.86	$ 779	
Brook Street	Replace 225 LF of 4 inch and 915 LF of 6 inch CI with 1140 LF of 8 inch DIPCL.	2102529	DW20-157	Awaiting Approval		$ 103,000	Yes	$ 100,000	Nashua	Yes	$ 26.63	$ 2,663	
Hamilton Street	Replace 410 LF of 6 inch CI with 4 inch DIPCL.	2102528	DW20-157	Awaiting Approval		$ 33,000	Yes	$ 75,000	Nashua	Yes	$ 26.63	$ 1,997	
Burritt Street	Replace 425 LF of 4 inch CI with 8 inch DIPCL.	2102532	DW20-157	Awaiting Approval		$ 24,000	Yes	$ 25,000	Nashua	Yes	$ 26.63	$ 666	
Burritt Street	Replace 125 LF of 4 inch CI with 4 inch DIPCL.	combined with above	DW20-157	Awaiting Approval		$ 12,000	Yes	$ 15,000	Nashua	Yes	$ 26.63	$ 399	This budget was combined with other Burritt Street budget.
Verona Street	Replace 675 LF of 6 inch CI with 8 inch DIPCL.	2102534	DW20-157	Awaiting Approval		$ 56,000	Yes	$ 60,000	Nashua	Yes	$ 26.63	$ 1,598	
Sarasota Ave	Replace 250 LF of 6 inch CI with 8 inch DIPCL.	2102531	DW20-157	Awaiting Approval		$ 24,000	Yes	$ 18,000	Nashua	Yes	$ 26.63	$ 479	
Merrimack River Pumping Station	Add third 350 horsepower pump with electrical and Structural Improvements.	2102256	DW20-157	Awaiting Approval		$ 140,000	Yes	$ 140,000	Merrimack	Yes	$ 28.86	$ 4,040	
Kessler Farm Tank Replacement	Replaced 4 MG painted steel water tank with 4 MG prestressed, precast water tank.	2101759	DW20-157	Awaiting Approval		$ 4,000,000	Yes	$ 4,000,000	Nashua	Yes	$ 26.63	$ 106,520	
Coburn Woods (all side streets)	Replace 4400 LF of 2 inch PVC with 4 inch DIPCL.	2002685 & 2101761	DW20-157	Awaiting Approval		$ 1,855,000	Yes	$ 1,855,000	Nashua	Yes	$ 26.63	$ 49,399	
Merrimack River Intake	Merrimack River Intake Modified Source Water Protection Plan	2101763	0.1 DSRR			$ 30,000	No	$ 110,000	Merrimack	No	$ 28.86	$ -	Budget increased based on the results of risk analysis and the resulting actions required by the NHDES.
Balcom Street	Replace 1240 LF 6 inch CI with 1240 LF 8 inch DIPCL.	NTD	DW20-157	Awaiting Approval		$ 294,000	Yes	$ 294,000	Nashua	Yes	$ 26.63	$ 7,829	Deferred to 2022 for Projects associated with sewer and other utility replacement
Euclid Avenue	Replace 425 LF 6 inch CI with 425LF 8 inch DIPCL.	NTD	DW20-157	Awaiting Approval		$ 100,000	Yes	$ 100,000	Nashua	Yes	$ 26.63	$ 2,663	Deferred to 2022 for Projects associated with sewer and other utility replacement
Ash Street	Final Paving	2102530	DW20-157	Awaiting Approval		$ -	Yes	$ 30,000	Nashua	Yes	$ 26.63	$ 799	Not included in original board approved budget
Chataqua Avenue	Design work for 2022 project	2101749	0.1 DSRR			$ -	No	$ 10,000	Nashua	No	$ 26.63	$ -	Not included in original board approved budget. Response to Nashua sewer replacement
Manatee Street	Final Paving, Includes Pine St Interesection	2102535	DW20-157	Awaiting Approval		$ -	Yes	$ 16,000	Nashua	Yes	$ 26.63	$ 426	Not included in original board approved budget
Niquette Drive	Emergency water main replacement across E. Dunstable Rd for continued main replacement in 2022	2103936	DW20-157	Awaiting Approval		$ -	Yes	$ 52,000	Nashua	Yes	$ 26.63	$ 1,385	Not included in original board approved budget
Miami Street	Complete main replacement and restoration in 2021 - Replace 429 LF of 2" CL pipe with 8" DIPCL	2105496	DW20-157	Awaiting Approval		$ -	Yes	$ 177,100	Nashua	Yes	$ 26.63	$ 4,716	Not included in original board approved budget. Response to Nashua sewer replacement
377 Main Street Repairs	Damaged sewer lateral that only surfaced 2 years after completion of the project - Main St Area Ph 2	2105498	DW20-157	Awaiting Approval		$ -	Yes	$ 25,000	Nashua	Yes	$ 26.63	$ 666	Not included in original board approved budget
Kendrick Street	Sewer work forces replacement of outdated 6" CI pipe with 466 LF of new 6" DIPCL	2105500	DW20-157	Awaiting Approval		$ -	Yes	$ 189,640	Nashua	Yes	$ 26.63	$ 5,050	Not included in original board approved budget. Response to Nashua sewer replacement
Faxon Avenue	Nearby sewer work forces replacement of outdated 2" CI pipe with 205 LF of new 4" C900 PVC	2105579	DW20-157	Awaiting Approval		$ -	Yes	$ 85,800	Nashua	Yes	$ 26.63	$ 2,285	Not included in original board approved budget. Response to Nashua sewer replacement
Faxon Street	Sewer work forces replacement of outdated 6" CI pipe with 528 LF of new 6" DIPCL	2105580	DW20-157	Awaiting Approval		$ -	Yes	$ 219,400	Nashua	Yes	$ 26.63	$ 5,843	Not included in original board approved budget. Response to Nashua sewer replacement
Sweet Hill Internnection	Connecting Pipeline and Meter Pit	NTD	NHDES SRF or DWGTF			$ 250,000	Yes	$ -	Plaistow	Yes	$ 29.00	$ -	Deferred to 2022 for NHSRF Funding
Twin Ridge Interconnection	Connecting Pipeline and Meter Pit	NTD	NHDES SRF or DWGTF			$ 100,000	Yes	$ -	Plaistow	Yes	$ 29.00	$ -	Deferred to 2022 for NHSRF Funding
PWW RRA- ERP	Engineering Evaluations to Implement Recommendations	NTD	0.1 DSRR			$ 200,000	No	$ 200,000	Various	No	$ 27.02	$ -	
Trimble GPS and Monitoring Equipment	Level Monitors, Pressure Monitors and Flow Monitors	NTD	DW20-157	Awaiting Approval		$ 32,000	Yes	$ 32,000	Various	Yes	$ 27.02	$ 865	
Merrimack River Watershed Council	Grant Match with othe Stakeholders $40k for five years.	NTD	DW20-157	Awaiting Approval		$ 40,000	No	$ 40,000	Various	No	$ 27.02	$ -	
Investment in Developer Services	1x Annual Revenue	Routine	DW20-157	Awaiting Approval		$ 90,000	Yes	$ 140,000	Various	Yes	$ 27.02	$ 3,783	27 Developer installed services through 06/30/21 projecting 80 more.
Engineering Vehicle	SUV Replaces a 2014 vehicle with over 150,000 miles.	NTD	DW20-157	Awaiting Approval		$ 30,000	Yes	$ 30,000	Nashua	No	$ 26.63	$ -	
Engineering Vehicle	SUV Relpaces (#34) 2010 with over 196,000 miles.	NTD	DW20-157	26,459	3/2/2021	$ 30,000	Yes	$ 30,000	Nashua	No	$ 26.63	$ -	
Route 101A Water Main Relocation	Route 101A Water Main Relocation	2008857 & 2102006	DW20-157	26,459	3/2/2021	$ -	Yes	$ 505,000	Nashua	Yes	$ 26.63	$ 13,448	Not included in original board approved budget
Northwest Pressure System Analysis	Hydraulic analysis of the Northwest Pressure Systems to provide for increase demands from Milford, NH	2105480	0.1 DSRR			$ -	Yes	$ 25,000	Nashua	No	$ 26.63	$ -	Not included in original board approved budget
Distribution System Analysis - HUDSON	Hydraulic modelling and Engineering analysis of the Pennichuck Distribution system's abiltiy to provide water to Hudson, NH	2105499	0.1 DSRR			$ -	Yes	$ 25,000	Nashua	No	$ 26.63	$ -	Not included in original board approved budget
New Building	New Building 2021 Carryover Costs	2001988 & 2101751	0.1 DSRR			$ -	No	$ 35,000	Nashua	Yes	$ 27.13	$ 950	Not included in original board approved budget
COO Vehicle	SUV Replaces a 2014 vehicle with over 150,000 miles.	NTD	DW20-157	26,459	3/2/2021	$ 30,000	Yes	$ -	Nashua	No	$ 26.63	$ -	Not needed.
Bon Terrain Contractual Payment	Phase 1 payment per SNHWC contract with Tana Properties.	NTD	DW20-157	26,459	3/2/2021	$ 129,200	Yes	$ 129,200	Amherst	No	$ 29.00	$ -	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild	Routine	DW20-157	26,459	3/2/2021	$ 40,000	Yes	$ 30,000	Various	Yes	$ 27.02	$ 811	6 Booster Pump installed/repaired through 06/30/21 projecting 6 more.
Booster Pump replacement/rebuild	Bowers Landing Replace VFD, Fire Pump #1	2102277	DW20-157	26,459	3/2/2021	$ -	Yes	$ 4,719	Various	Yes	$ 27.02	$ 128	
Booster Pump replacement/rebuild	Bowers Landing Replace VFD, Fire Pump #2	2102278	DW20-157	26,459	3/2/2021	$ -	Yes	$ 4,641	Various	Yes	$ 27.02	$ 125	
Well Pump replacements	Well Pump replacements	Routine	DW20-157	26,459	3/2/2021	$ 15,000	Yes	$ 24,000	Various	Yes	$ 27.02	$ 648	3 Well Pump installed/repaired through 06/30/21, projecting 3 more
Chemical Feed pump replacements	Chemical Feed pump replacements	Routine	DW20-157	26,459	3/2/2021	$ 10,000	Yes	$ 4,000	Various	Yes	$ 27.02	$ 108	0 Chemical Pumps installed/repaired through 06/30/21 projecting 2 more
Supply Pond Spillway Improvements	Supply Pond Spillway Improvements	2101927	DW20-157	26,459	3/2/2021	$ 750,000	Yes	$ -	Merrimack/Nashua	Yes	$ 27.75	$ -	Work not required due to Hazard level reclassification of Bowers Dam
Harris Dam raise earthen embankment, raise dike wall, regulatory requirement.	Harris Dam raise earthen embankment, raise dike wall, regulatory requirement.	2101956	DW20-157	26,459	3/2/2021	$ 965,000	Yes	$ -	Merrimack/Nashua	Yes	$ 27.75	$ -	Deferred to 2022. Project scope will change due to Hazard level reclassification of Bowers Dam
Misc. Structural Improvements	Misc. Structural Improvements	NTD	DW20-157	26,459	3/2/2021	$ 20,000	Yes	$ 15,515	Various	Yes	$ 27.02	$ 419	
Misc. Structural Improvements	Replace Sewage Ejection Pump 2, WTP	2102276	DW20-157	26,459	3/2/2021	$ -	Yes	$ 4,485	Various	Yes	$ 27.02	$ 121	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased	NTD	DW20-157	26,459	3/2/2021	$ 20,000	Yes	$ 15,000	Various	Yes	$ 27.02	$ 405	
Miscellaneous Equipment Purchased	Install Softener, Farley Road Estates, Nashua	2104003	DW20-157	26,459	3/2/2021	$ -	Yes	$ 5,000	Various	Yes	$ 27.02	$ 135	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical	NTD	DW20-157	26,459	3/2/2021	$ 30,000	Yes	$ 21,500	Various	Yes	$ 27.05	$ 582	Some budget money was pulled into 2102309 VFD pump #3
Miscellaneous SCADA/Electrical	Replace PLC and install cellular modem, Taylor Falls Station, Nashua	2104170	DW20-157	26,459	3/2/2021	$ 30,000	Yes	$ 5,500	Various	Yes	$ 27.05	$ 149	
Rebuild 1 High lift/Intermediate pump	Rebuild 1 High lift/Intermediate pump	NTD	DW20-157	26,459	3/2/2021	$ 25,000	Yes	$ 25,000	Nashua	Yes	$ 26.63	$ 666	
Replace VFD, Intermediate Pump #3 WTP	Replace VFD, Intermediate Pump #3 WTP	2102309	DW20-157	26,459	3/2/2021	$ -	Yes	$ 28,000	Nashua	Yes	$ 26.63	$ 746	
WTP Structural/HVAC	WTP Structural/HVAC	NTD	DW20-157	26,459	3/2/2021	$ 10,000	Yes	$ 10,000	Various	Yes	$ 27.02	$ 270	
Purchase new lab equipment	Purchase new lab equipment	NTD	DW20-157	26,459	3/2/2021	$ 20,000	Yes	$ 20,000	Nashua	Yes	$ 26.63	$ 533	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects	NTD	DW20-157	26,459	3/2/2021	$ 10,000	Yes	$ 1,850	Various	Yes	$ 27.02	$ 50	
Miscellaneous Fencing and Security projects	Install Perimeter Fence around remote wells, Badger Hill, Milford	2103214	DW20-157	26,459	3/2/2021	$ -	Yes	$ 8,150	Various	Yes	$ 27.02	$ 220	
Add Third pump - Donald Street Booster Station	Add Third pump - Donald Street Booster Station	NTD	DW20-157	26,459	3/2/2021	$ 40,000	Yes	$ -	Bedford	Yes	$ 25.50	$ -	deferred until 2022
Vehicle replacement	Vehicle replacement-replace vehicle 210. >160,000 miles, 3K repairs in 2020.	NTD	DW20-157	26,459	3/2/2021	$ 55,000	Yes	$ 55,000	Nashua	No	$ 26.63	$ -	
Vehicle replacement	Vehicle replacement - Replace vehicle 351. >163,000 miles, 6K repairs in 2020.	NTD	DW20-157	26,459	3/2/2021	$ 40,000	Yes	$ 40,000	Nashua	No	$ 26.63	$ -	
Replace 6 filter turbidimeters (manufacturer no longer supports current units).	Replace 6 filter turbidimeters (manufacturer no longer supports current units).	NTD	DW20-157	26,459	3/2/2021	$ 30,000	Yes	$ 30,000	Nashua	Yes	$ 26.63	$ 799	
Rebuild of Pump 2 @ Merrimack River Intake.	Rebuild of Pump 2 @ Merrimack River Intake.	NTD	DW20-157	26,459	3/2/2021	$ 75,000	Yes	$ 75,000	Merrimack	Yes	$ 28.86	$ 2,165	
Repair/Replace Soffit and Fascia, Boat House Bldg.	Repair/Replace Soffit and Fascia, Boat House Bldg.	2103205	DW20-157	26,459	3/2/2021	$ 30,000	Yes	$ 15,000	Nashua	Yes	$ 26.63	$ 399	
Install new Day Fuel Tank, Controller and related equip. FWPS Generator	Regulatory requirement, existing equipment is malfunctioning and unreliable, Soft metals present in piping system which is not allowed.	NTD	DW20-157	26,459	3/2/2021	$ 75,000	Yes	$ -	Nashua	No	$ 26.63	$ -	Piping reconfigured and replaced as maintenance project. Scope limited.
Replace Pakscan Master Station, WTP	Replace Pakscan Master Station, WTP	2103886	DW20-157	26,459	3/2/2021	$ -	Yes	$ 44,000	Nashua	Yes	$ 26.63	$ 1,172	This project was originally expected in 2020 but not completed due to production issues. Completed in 2021 but not in board approved budget as a carryover.
New SCADA Control System, Powder Hill, Bedford	New SCADA Control System, Powder Hill, Bedford	2103888	DW20-157	26,459	3/2/2021	$ -	Yes	$ 9,500	Bedford	Yes	$ 25.50	$ 242	This project was originally expected in 2020 but not completed due to production issues. Completed in 2021 but not in board approved budget as a carryover.
CMMS replacment project (Estimate)	Replace Synergen/WAM with newer more cost effective/improved functionality system.	2101757	DW20-157	26,459	3/2/2021	$ 100,000	Yes	$ 100,000	Nashua	Yes	$ 26.63	$ 2,663	
Infoview Licenses	Infoview Licenses	2104021	DW20-157	26,459	3/2/2021	$ 65,000	Yes	$ 53,450	Nashua	No	$ 26.63	$ -	
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	DW20-157	26,459	3/2/2021	$ 69,000	Yes	$ 69,000	Nashua	No	$ 26.63	$ -	

Pennichuck Water Works, Inc.
DW 21-023
Projected 2021 QCPAC Capital Expenditures
2/11/2021
6/30/2021 Update

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	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
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	Nashua	Yes	$ 26.63	$ 3,196	Change of Scope for 2 remote facilities. Existing wiring at Distribution not adequate for new system. Add gate, request for Exit, 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.	NTD	DW20-157	26,459	3/2/2021	$ 4,000	Yes	$ 4,000	Nashua	Yes	$ 26.63	$ 107	
Cybernetics Disk Array	Replace 7 year of device used for system back ups.	2104055	DW20-157	26,459	3/2/2021	$ 20,000	Yes	$ 12,000	Nashua	Yes	$ 26.63	$ 320	
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	DW20-157	26,459	3/2/2021	$ 106,000	Yes	$ 60,000	Nashua	No	$ 26.63	$ -	
Computer Updates	There are 30 Computers that are due for replacement in 2023. These computers have very slow hard drives which make these comp	NTD	DW20-157	26,459	3/2/2021	$ 6,000	Yes	$ 6,000	Nashua	No	$ 26.63	$ -	
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	Nashua	Yes	$ 26.63	$ 27	
Munis FER Enancements	Munis FER Enhancements	NTD	DW20-157	26,459	3/2/2021	$ 35,000	Yes	$ 35,000	Nashua	No	$ 26.63	$ -	
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	Nashua	No	$ 26.63	$ -	
CMMS PLL Implementation	Implemtation of Cityworks PLL. Cityworks PLL simplifies applications for customers and streamlines workflows for staff.	2103213	DW20-157	26,459	3/2/2021	$ 170,000	Yes	$ 125,595	Nashua	Yes	$ 26.63	$ 3,345	
Cityworks PLL License	License for above (Estimate)	NTD	DW20-157	26,459	3/2/2021	$ 40,000	Yes	$ 13,875	Nashua	No	$ 26.63	$ -	This project got cancelled since it was only for licenses.
Misc Hardware	Misc Hardware	NTD	DW20-157	26,459	3/2/2021	$ 20,000	Yes	$ 8,082	Various	No	$ 27.02	$ -	
Misc Hardware	Small MFP's at Distribution	2101826	DW20-157	26,459	3/2/2021	$ -	Yes	$ 2,195	Various	No	$ 27.02	$ -	
Misc Hardware	Replacement Laptops - CS	2102671	DW20-157	26,459	3/2/2021	$ -	Yes	$ 3,500	Various	No	$ 27.02	$ -	
Misc Hardware	Replacement Laptops - CS	2103177	DW20-157	26,459	3/2/2021	$ -	Yes	$ 3,349	Various	No	$ 27.02	$ -	
Misc Hardware	4 iPads & iPad cases	2105019	DW20-157	26,459	3/2/2021	$ -	Yes	$ 2,874	Various	No	$ 27.02	$ -	
Remote User Laptops	Remote User Laptops	2104113	DW20-157	26,459	3/2/2021	$ -	Yes	$ 36,000	Various	No	$ 27.02	$ -	
Misc Software	Misc Software	NTD	DW20-157	26,459	3/2/2021	$ 12,000	No	$ 12,000	Various	No	$ 27.02	$ -	
WTP Wifi expansion	WTP Wifi expansion	NTD	DW20-157	26,459	3/2/2021	$ 15,000	Yes	$ -	Nashua	No	$ 26.63	$ -	Determined that the need was not there for the use of this technology.
		Pennichuck Water Works Projected 2021 Total Capital Expenditure Budget -				**$ 12,045,200**		**$ 11,409,920**	**Projected Property Tax Expense associated with**			**$ 270,803**	

Total Projected Bond funded PWW QCPAC Capex for 2021 -	**$ 11,404,200**	**$ 11,053,920**
Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2021 -	**$ 350,000**	**$ -**
Total for 0.1 DSRR Projects -	**$ 291,000**	**$ 356,000**

Estimated Bond Terms (Bonds to be sold in April 2022) -	30	Years @	4.0%	resulting in P&I of	$ 659,506	$ 639,249
DWGTF Terms -	30	Years @	3.38%	resulting in P&I of	$ 18,745	$ -

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

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
2022 New Services (10)	Single Family, Owner Build, New Homes		DW20-157	Awaiting Approval		$ 50,000	Yes	Various	Yes	$ 27.02	$ 1,351	
2022 Renewed Services (20)	Replacement of Failed Services		DW20-157	Awaiting Approval		$ 110,000	Yes	Various	Yes	$ 27.02	$ 2,972	
2022 Hydrants (15)	Replacement of non-functional hydrants		DW20-157	Awaiting Approval		$ 90,000	Yes	Various	Yes	$ 27.02	$ 2,432	
2022 Gates (10)	Replacement of Failed Gate Valves		DW20-157	Awaiting Approval		$ 40,000	Yes	Various	Yes	$ 27.02	$ 1,081	
2022 Radios (500)	Replacement of failed Radios (250), New Radios for new customers (250).		DW20-157	Awaiting Approval		$ 50,000	Yes	Various	Yes	$ 27.02	$ 1,351	
2022 Radios (4000)	Yr 2 of 7 Replacment of all PWW Radios installed in 2007 (4000) by contractor.		DW20-157	Awaiting Approval		$ 520,000	Yes	Various	Yes	$ 27.02	$ 14,050	
2022 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers, including PFOA (250). Replacement of failed meters(250).		DW20-157	Awaiting Approval		$ 50,000	Yes	Various	Yes	$ 28.86	$ 1,443	
Replacement Boom Truck	Replacement for #19 - 2011 Ford F450 - High Milage, Maintenance & Safety issues.		DW20-157	Awaiting Approval		$ 150,000	Yes	Merrimack	No	$ 28.86	$ -	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		$ 70,000	Yes	Merrimack	No	$ 28.86	$ -	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		$ 70,000	Yes	Merrimack	No	$ 26.63	$ -	
Replacment Supervisor Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup.		DW20-157	Awaiting Approval		$ 45,000	Yes	Merrimack	No	$ 26.63	$ -	
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		$ 40,000	Yes	Merrimack	No	$ 26.63	$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade		DW20-157	Awaiting Approval		$ 22,000	Yes	Nashua	Yes	$ 26.63	$ 586	
Miscellaneous Construction Equipment				0.1 DSRR		$ 40,000	Yes	Merrimack	Yes	$ 26.63	$ 1,065	
Balcom Street	Replace 1240 LF 6 inch CI with 1240 LF 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 73,600	Yes	Nashua	Yes	$ 26.63	$ 1,960	
Euclid Avenue	Replace 425 LF 6 inch CI with 425LF 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 25,200	Yes	Nashua	Yes	$ 26.63	$ 671	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 47,000	Yes	Nashua	Yes	$ 26.63	$ 1,252	
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		$ 66,000	Yes	Nashua	Yes	$ 26.63	$ 1,758	
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 27,000	Yes	Nashua	Yes	$ 26.63	$ 719	
Sargent Street	Replace 1900 LF 6 inch CI with 1900 LF 16 inch DIPCL.		DW20-157	Awaiting Approval		$ 480,000	Yes	Nashua	Yes	$ 26.63	$ 12,782	
Courtland Street	Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL.		DW20-157	Awaiting Approval		$ 300,000	Yes	Nashua	Yes	$ 26.63	$ 7,989	
Alld Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		$ 740,000	Yes	Nashua	Yes	$ 26.63	$ 19,706	
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		$ 420,000	Yes	Nashua	Yes	$ 26.63	$ 11,185	
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 160,000	Yes	Nashua	Yes	$ 26.63	$ 4,261	
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 280,000	Yes	Nashua	Yes	$ 26.63	$ 7,456	
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		$ 61,000	Yes	Nashua	Yes	$ 26.63	$ 1,624	
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		$ 80,000	Yes	Nashua	Yes	$ 26.63	$ 2,130	
St Lazare Street	Replace 415 LF of 2 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		$ 80,000	Yes	Nashua	Yes	$ 26.63	$ 2,130	
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		$ 40,000	Yes	Nashua	Yes	$ 26.63	$ 1,065	
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		$ 73,000	Yes	Nashua	Yes	$ 26.63	$ 1,944	
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 103,000	Yes	Nashua	Yes	$ 26.63	$ 2,743	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 189,000	Yes	Nashua	Yes	$ 26.63	$ 5,033	
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL.		DW20-157	Awaiting Approval		$ 85,000	Yes	Nashua	Yes	$ 26.63	$ 2,264	
Additional Water Main Replacement	To be determined		DW20-157	Awaiting Approval		$ 1,100,000	Yes	Nashua	Yes	$ 26.63	$ 29,293	
2022 Nashua City Sewer Projects	To be determined		DW20-157	Awaiting Approval		$ 900,000	Yes	Nashua	Yes	$ 26.63	$ 23,967	
PWW RRA- ERP	Implement Recommendations Evaluated in 2021		DW20-157	Awaiting Approval		$ 500,000	Yes	Various	Yes	$ 27.02	$ 13,510	
Merrimack River Watershed Council	Grant Match with other Stakeholders $40k for five years for land conservation/protection in the Merrimack River Watershed.			0.1 DSRR		$ 40,000	No	Various	No	$ 27.02	$ -	
Investment in Developer Services	1x Annual Rvenue		DW20-157	Awaiting Approval		$ 90,000	Yes	Various	Yes	$ 27.02	$ 2,432	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	Awaiting Approval		$ 40,000	Yes	Nashua	No	$ 26.63	$ -	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	Awaiting Approval		$ 40,000	Yes	Nashua	No	$ 26.63	$ -	
Milford Booster Station	Replace/Relocate/Upgrade the Milford Booster Station (>4MGD)		DW20-157	Awaiting Approval		$ 800,000	Yes	Amherst	Yes	$ 29.00	$ 23,200	
Temple St (south to gorman)	Replace 900 LF of 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		$ 263,000	Yes	Nashua	Yes	$ 26.63	$ 7,004	
School Street (High to W. Pearl Alleyway)	Replace 400 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 108,000	Yes	Nashua	Yes	$ 26.63	$ 2,876	
Linwood Street	Replace 960 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 283,800	Yes	Nashua	Yes	$ 26.63	$ 7,558	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW20-157	Awaiting Approval		$ 40,000	Yes	Various	Yes	$ 27.02	$ 1,081	
Well Pump replacements	Well Pump replacements		DW20-157	Awaiting Approval		$ 15,000	Yes	Various	Yes	$ 27.02	$ 405	
Chemical Feed pump replacements	Chemical Feed pump replacements		DW20-157	Awaiting Approval		$ 10,000	Yes	Various	Yes	$ 27.02	$ 270	
Install/replace treatment systems in small CWS.	Install/replace treatment systems in small CWS.		DW20-157	Awaiting Approval		$ 15,000	Yes	Various	Yes	$ 27.02	$ 405	
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	Awaiting Approval		$ 15,000	Yes	Various	Yes	$ 27.02	$ 405	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW20-157	Awaiting Approval		$ 20,000	Yes	Various	Yes	$ 27.02	$ 540	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW20-157	Awaiting Approval		$ 30,000	Yes	Various	Yes	$ 27.02	$ 811	
Well Rehabilitation	Well Rehabilitation		DW20-157	Awaiting Approval		$ 50,000	Yes	Various	Yes	$ 27.02	$ 1,351	
WTP Structural/HVAC	WTP Structural/HVAC		DW20-157	Awaiting Approval		$ 10,000	Yes	Nashua	Yes	$ 26.63	$ 266	
Bowers Pond Spillway Improvements	Bowers Pond Spillway Improvements to bypass revised NHDES flows		DW20-157	Awaiting Approval		$ 800,000	Yes	Merrimack/Nashua	Yes	$ 27.75	$ 22,200	Work required to expand Spillway due to NHDES Hazard reclassification of Bowers Dam
Purchase new lab equipment	Purchase new lab equipment		DW20-157	Awaiting Approval		$ 20,000	Yes	Nashua	Yes	$ 26.63	$ 533	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW20-157	Awaiting Approval		$ 10,000	Yes	Nashua	Yes	$ 26.63	$ 266	
Re-paint FWPS ceiling	Re-paint FWPS ceiling		DW20-157	Awaiting Approval		$ 20,000	Yes	Nashua	Yes	$ 26.63	$ 533	
WTP Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting Approval		$ 65,000	Yes	Nashua	No	$ 26.63	$ -	
WTP Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting Approval		$ 40,000	Yes	Nashua	No	$ 26.63	$ -	
Bowers Spillway Reconstruction, regulatory requirement	Bowers Spillway Reconstruction, regulatory requirement		DW20-157	Awaiting Approval		$ 1,100,000	Yes	Nashua	No	$ 26.63	$ -	
Misc Hardware	Misc Hardware			0.1 DSRR		$ 20,000	No	Nashua	No	$ 26.63	$ -	
Misc Software	Misc Software			0.1 DSRR		$ 12,000	No	Nashua	No	$ 26.63	$ -	
Network Hardawre infrastructure improvements	Update aging network infrustructure.		DW20-157	Awaiting Approval		$ 80,000	Yes	Nashua	No	$ 26.63	$ -	
Major Software Replacement Project				0.1 DSRR		$ 60,000	No	Nashua	No	$ 26.63	$ -	
Munis Enhancements	Munis Enhancements		DW20-157	Awaiting Approval		$ 35,000	Yes	Nashua	No	$ 26.63	$ -	
		Pennichuck Water Works Projected 2022 Total Capital Expenditure Budget -				**$ 11,308,600**		**Projected Property Tax Expense associated with**			**$ 253,910**	

Total Projected Bond funded PWW QCPAC Capex for 2021 -	**$**	**11,136,600**
Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2021 -	**$**	**-**
Total for 0.1 DSRR Projects -	**$**	**172,000**

Estimated Bond Terms (Bonds to be sold in April 2022) - 30 Years @ 4.0% resulting in P&I of $ 644,031

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

Pennichuck Water Works, Inc.
DW 21-023
Projected 2023 QCPAC Capital Expenditures
2/11/2021
Revised 6/16/2020 per Staff Tech DR-1

Project Name/Description	Project Description	Work Order #	Financing Docket No.	NHPUC Order No.	Date of NHPUC Order	Approved Budgeted Amount	QCPAC Eligible?	Community	Taxable	Tax Rate (1)	QCPAC Eligible Property Tax Expense	Explanation for Change/Addition/Deletion since Feb 2021 Filing
2023 New Services (10)	Single Family, Owner Build, New Homes		DW20-157	Awaiting Approval		$ 50,000	Yes	Various	Yes	$ 27.02	$ 1,351	
2023 Renewed Services (20)	Replacement of Failed Services		DW20-157	Awaiting Approval		$ 110,000	Yes	Various	Yes	$ 27.02	$ 2,972	
2023 Hydrants (15)	Replacement of non-functional hydrants		DW20-157	Awaiting Approval		$ 90,000	Yes	Various	Yes	$ 27.02	$ 2,432	
2023 Gates (10)	Replacement of Failed Gate Valves		DW20-157	Awaiting Approval		$ 40,000	Yes	Various	Yes	$ 27.02	$ 1,081	
2023 Radios (500)	Replacement of failed Radios (250), New Radios for new customers (250).		DW20-157	Awaiting Approval		$ 50,000	Yes	Various	Yes	$ 27.02	$ 1,351	
2023 Radios (4000)	Yr 2 of 7 Replacment of all PWW Radios installed in 2007 (4000) by contractor.		DW20-157	Awaiting Approval		$ 520,000	Yes	Various	Yes	$ 27.02	$ 14,050	
2023 Meters (Growth) 5/8"-2" - Core & CWS (TBD)	New meters for new customers, including PFOA (250). Replacement of failed meters(250).		DW20-157	Awaiting Approval		$ 50,000	Yes	Various	Yes	$ 27.02	$ 1,351	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		$ 70,000	Yes	Merrimack	No	$ 28.86	$ -	
Replacement Utility Truck	New Utility Truck to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		$ 70,000	Yes	Merrimack	No	$ 28.86	$ -	
Replacment Supervisor Pickup	New Full Sized Pickup to Replace existing high mileage/maintenance pickup.		DW20-157	Awaiting Approval		$ 45,000	Yes	Merrimack	No	$ 28.86	$ -	
Replacement Utility Van	New Utility Van to replace existing high mileage/maintenance vehicles.		DW20-157	Awaiting Approval		$ 40,000	Yes	Merrimack	No	$ 28.86	$ -	
Protectus Meter Upgrade	Protectus Meter Upgrade		DW20-157	Awaiting Approval		$ 22,000	Yes	Nashua	No	$ 26.63	$ -	
Miscellaneous Construction Equipment	Miscellaneous Construction Equipment			0.1 DSRR		$ 40,000	Yes	Merrimack	Yes	$ 28.86	$ 1,154	
PWW RRA- ERP	Implement Recommendations Evaluated in 2021.		DW20-157	Awaiting Approval		$ 500,000	Yes	Various	Yes	$ 27.02	$ 13,510	
Sargent Street	Replace 1900 LF 6 inch CI with 1900 LF 16 inch DIPCL.		DW20-157	Awaiting Approval		$ 84,000	Yes	Nashua	Yes	$ 26.63	$ 2,237	
Courtland Street	Replace 1170 LF 4 inch CI with 1170 LF 16 inch DIPCL.		DW20-157	Awaiting Approval		$ 52,000	Yes	Nashua	Yes	$ 26.63	$ 1,385	
Alld Street	Replace 1860 LF of 6 & 8 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		$ 130,000	Yes	Nashua	Yes	$ 26.63	$ 3,462	
Lawndale Avenue	Replace 1085 LF of 6 inch CI with 12 inch DIPCL.		DW20-157	Awaiting Approval		$ 73,000	Yes	Nashua	Yes	$ 26.63	$ 1,944	
Benson Avenue	Replace 550 LF of 4 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 28,000	Yes	Nashua	Yes	$ 26.63	$ 746	
Spaulding Street	Replace 950 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 48,000	Yes	Nashua	Yes	$ 26.63	$ 1,278	
Alstead Avenue	Replace 240 LF of 4 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		$ 11,000	Yes	Nashua	Yes	$ 26.63	$ 293	
Spaulding Avenue	Replace 430 LF of 6, 2, & 1.25 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		$ 14,000	Yes	Nashua	Yes	$ 26.63	$ 373	
St Lazare Street	Replace 415 LF of 2 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		$ 14,000	Yes	Nashua	Yes	$ 26.63	$ 373	
Ingalls St (St Camille to end)	Replace 200 LF of 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		$ 6,000	Yes	Nashua	Yes	$ 26.63	$ 160	
Nye Avenues	Replace 400 LF of 2 & 1.5 inch CI with 4 inch DIPCL.		DW20-157	Awaiting Approval		$ 13,000	Yes	Nashua	Yes	$ 26.63	$ 346	
Copp Street	Replace 350 LF of 6 inch CI with 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 18,000	Yes	Nashua	Yes	$ 26.63	$ 479	
Gray Avenue	Replace 360 LF of 6 inch CI with 6 inch DIPCL.		DW20-157	Awaiting Approval		$ 15,000	Yes	Nashua	Yes	$ 26.63	$ 399	
2022 Nashua City Sewer Projects	To be detremined (Paving)		DW20-157	Awaiting Approval		$ 200,000	Yes	Nashua	Yes	$ 26.63	$ 5,326	
Fairview Street	Replace 800 LF 6 inch CI with 800 LF 8 inch DIPCL.		DW20-157	Awaiting Approval		$ 47,000	Yes	Nashua	Yes	$ 26.63	$ 1,252	
Water Main Replacement Additional Paving Carry Over	TBD from 2022		DW20-157	Awaiting Approval		$ 400,000	Yes	Nashua	Yes	$ 26.63	$ 10,652	
Booster Station Replacement/Upgrade	To be determined		DW20-157	Awaiting Approval		$ 800,000	Yes	Nashua	Yes	$ 26.63	$ 21,304	
Water Main Replacement	To be determined		DW20-157	Awaiting Approval		$ 3,700,000	Yes	Nashua	Yes	$ 26.63	$ 98,531	
2023 Nashua City Sewer Projects	To be determined		DW20-157	Awaiting Approval		$ 900,000	Yes	Nashua	Yes	$ 26.63	$ 23,967	
Merrimack River Watershed Council	Grant Match with other Stakeholders $40k for five years.			0.1 DSRR		$ 40,000	No	Various	No	$ 27.02	$ -	
Trimble GPS and Monitoring Equipment	Level Monitors, Pressure Monitors and Flow Monitors		DW20-157	Awaiting Approval		$ 32,000	Yes	Merrimack	No	$ 28.86	$ -	
Investment in Developer Services	1x Annual Rvenue		DW20-157	Awaiting Approval		$ 90,000	Yes	Various	Yes	$ 27.02	$ 2,432	
Replace Engineering SUV	Replace vehicle with high mileage.		DW20-157	Awaiting Approval		$ 30,000	Yes	Various	Yes	$ 28.86	$ 866	
Replace Engineering Pickup	Replace vehicle with high mileage.		DW20-157	Awaiting Approval		$ 40,000	No	Various	Yes	$ 28.86	$ 1,154	
Booster Pump replacement/rebuild	Booster Pump replacement/rebuild		DW20-157	Awaiting Approval		$ 40,000	Yes	Various	Yes	$ 28.86	$ 1,154	
Well Pump replacements	Well Pump replacements		DW20-157	Awaiting Approval		$ 15,000	Yes	Various	Yes	$ 26.23	$ 393	
Chemical Feed pump replacements	Chemical Feed pump replacements		DW20-157	Awaiting Approval		$ 15,000	Yes	Various	Yes	$ 26.23	$ 393	
Carbon media changeout-filters 1 & 2 (Spring of 2023)	Carbon media changeout-filters 1 & 2		DW20-157	Awaiting Approval		$ 500,000	Yes	Nashua	Yes	$ 26.23	$ 13,115	
Install/replace treatment systems in small CWS.	Install/replace treatment systems in small CWS.		DW20-157	Awaiting Approval		$ 15,000	Yes	Various	Yes	$ 26.23	$ 393	
Misc. Structural Improvements	Misc. Structural Improvements		DW20-157	Awaiting Approval		$ 20,000	Yes	Various	Yes	$ 26.23	$ 525	
Miscellaneous Equipment Purchased	Miscellaneous Equipment Purchased		DW20-157	Awaiting Approval		$ 20,000	Yes	Various	Yes	$ 26.23	$ 525	
Miscellaneous SCADA/Electrical	Miscellaneous SCADA/Electrical		DW20-157	Awaiting Approval		$ 30,000	Yes	Various	Yes	$ 26.23	$ 787	
Well Rehabilitation	Well Rehabilitation		DW20-157	Awaiting Approval		$ 50,000	Yes	Various	Yes	$ 28.86	$ 1,443	
WTP Structural/HVAC	WTP Structural/HVAC		DW20-157	Awaiting Approval		$ 10,000	Yes	Nasnua	Yes	$ 28.86	$ 289	
Purchase new lab equipment	Purchase new lab equipment.		DW20-157	Awaiting Approval		$ 20,000	Yes	Nashua	No	$ 26.23	$ -	
Miscellaneous Fencing and Security projects	Miscellaneous Fencing and Security projects		DW20-157	Awaiting Approval		$ 10,000	Yes	Various	Yes	$ 27.02	$ 270	
Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting Approval		$ 65,000	Yes	Nashua	No	$ 28.86	$ -	
Carbon media chageout - 3 & 4 (Fall of 2023)	Carbon media chageout - 3 & 4		DW20-157	Awaiting Approval		$ 500,000	Yes	Nasnua	Yes	$ 28.86	$ 14,430	
Replace Vehicle	Replace High Mileage Vehicle.		DW20-157	Awaiting Approval		$ 40,000	Yes	Nashua	No	$ 26.23	$ -	
Misc Hardware	Misc Hardware			0.1 DSRR		$ 20,000	No	Nashua	No	$ 26.23	$ -	
Misc Software	Misc Software			0.1 DSRR		$ 12,000	No	Nashua	No	$ 26.23	$ -	
Network Hardware infrastructure improvements	Update aging network infrustructure.		DW20-157	Awaiting Approval		$ 80,000	Yes	Nashua	No	$ 26.23	$ -	
Major Software Replacement Project				0.1 DSRR		$ 60,000	No	Nashua	No	$ 26.23	$ -	
Munis Enhancements	Munis Enhancements			0.1 DSRR		$ 35,000	No	Amherst	No	$ 28.85	$ -	
Misc Computer replacements				0.1 DSRR		$ 15,000	No	Nashua	No	$ 26.23	$ -	
		Pennichuck Water Works Projected 2020 Total Capital Expenditure Budget -				**$ 10,054,000**		**Projected Property Tax Expense associated with**			**$ 251,929**	

Total Projected Bond funded PWW QCPAC Capex for 2021 -	**$**	**9,832,000**
Total Projected NHDES SRF/DWGTF funded PWW QCPAC Capex for 2021 -	**$**	**-**
Total for 0.1 DSRR Projects -	**$**	**222,000**

Estimated Bond Terms (Bonds to be sold in April 2022) - 30 Years @ 4.0% resulting in P&I of $ 568,586

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